MARSHALL UNIVERSITY

GENERAL

UNDERGRADUATE

CATALOG

1997-1998-1999

SPECIAL COLLECTIONS

Virginia Plumley, Ph.D.

Editor

Huntington, West Virginia 25755
### Contact Directory

For specific information about academic or student services at Marshall University, the following telephone numbers are provided.

#### Academic Area Code (304)

<table>
<thead>
<tr>
<th>Academic Area</th>
<th>Area Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admissions, Undergraduate</td>
<td>696-3160</td>
</tr>
<tr>
<td>Admissions, Graduate</td>
<td>696-6606</td>
</tr>
<tr>
<td>Adult and Extended Education</td>
<td>696-4723</td>
</tr>
<tr>
<td>College of Business</td>
<td>696-2314</td>
</tr>
<tr>
<td>College of Education &amp; Human Services</td>
<td>696-3130</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td>696-6433</td>
</tr>
<tr>
<td>College of Liberal Arts</td>
<td>696-2350</td>
</tr>
<tr>
<td>College of Science</td>
<td>696-2372</td>
</tr>
<tr>
<td>Community &amp; Technical College</td>
<td>696-3646</td>
</tr>
<tr>
<td>Graduate School</td>
<td>696-6606</td>
</tr>
<tr>
<td>Enrollment Management</td>
<td>696-2206</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>696-7000</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>696-6750</td>
</tr>
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</table>

#### Department/Division

<table>
<thead>
<tr>
<th>Department/Division</th>
<th>Area Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>696-2310</td>
</tr>
<tr>
<td>Adult and Technical Education</td>
<td>696-2380</td>
</tr>
<tr>
<td>Anatomy and Cell Biology</td>
<td>696-7382</td>
</tr>
<tr>
<td>Anthropology</td>
<td>696-6700</td>
</tr>
<tr>
<td>Applied Science Technology</td>
<td>696-3064</td>
</tr>
<tr>
<td>Archaeology Lab</td>
<td>696-2802</td>
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<tr>
<td>Art</td>
<td>696-6760</td>
</tr>
<tr>
<td>Biochemistry and Molecular Biology</td>
<td>696-7322</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>696-3148, 696-5413</td>
</tr>
<tr>
<td>Business Technology</td>
<td>696-5431</td>
</tr>
<tr>
<td>Center for Academic Excellence</td>
<td>696-6763/5421</td>
</tr>
<tr>
<td>Center for Environmental, Geotechnical and Applied Sciences</td>
<td>696-5453</td>
</tr>
<tr>
<td>Chemistry</td>
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<td>696-6749</td>
</tr>
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<td>Communication Studies</td>
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<tr>
<td>Computer Science &amp; Software Dev.</td>
<td>696-5424</td>
</tr>
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<td>Continuing Education</td>
<td>696-3113</td>
</tr>
<tr>
<td>Counseling &amp; Rehabilitation</td>
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<tr>
<td>Criminal Justice</td>
<td>696-3196</td>
</tr>
<tr>
<td>Developmental/General Studies</td>
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</tr>
<tr>
<td>Early Childhood Education</td>
<td>696-3101</td>
</tr>
<tr>
<td>Economics/Finance</td>
<td>696-2311</td>
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<tr>
<td>Educational Foundations</td>
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<td>English</td>
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<td>Geography</td>
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<td>Geology</td>
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</tr>
<tr>
<td>Greek</td>
<td>696-6749</td>
</tr>
<tr>
<td>Health, Phy. Ed. &amp; Education</td>
<td>696-6490</td>
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<td>Family and Consumer Science</td>
<td>696-2386</td>
</tr>
<tr>
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<td>696-2380</td>
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<td>696-2360</td>
</tr>
<tr>
<td>Latin</td>
<td>696-6749</td>
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<tr>
<td>Management/Marketing</td>
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<td>696-5423</td>
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<td>696-6482</td>
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<td>696-7000</td>
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<tr>
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<td>Music</td>
<td>696-3117</td>
</tr>
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<td>696-6750</td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
<td>696-7136</td>
</tr>
<tr>
<td>Pathology</td>
<td>696-7346</td>
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<tr>
<td>Pediatrics</td>
<td>696-7081</td>
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<td>Psychiatry</td>
<td>696-7077</td>
</tr>
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<td>Psychology</td>
<td>696-6446</td>
</tr>
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<td>Public Service/Allied Health Tech.</td>
<td>696-3022</td>
</tr>
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<td>696-6755</td>
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<td>Radiology</td>
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<td>Safety Technology</td>
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</tr>
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<td>Social Work</td>
<td>696-2792</td>
</tr>
<tr>
<td>Sociology &amp; Anthropology</td>
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<tr>
<td>Spanish</td>
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<tr>
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<td>696-2340</td>
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<td>Surgery</td>
<td>696-7029</td>
</tr>
<tr>
<td>Teacher Education</td>
<td>696-2333</td>
</tr>
<tr>
<td>Theatre/Dance</td>
<td>696-6442</td>
</tr>
<tr>
<td>Tutoring Office</td>
<td>696-6622</td>
</tr>
</tbody>
</table>

#### Student Services

<table>
<thead>
<tr>
<th>Student Services</th>
<th>Area Code</th>
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<tbody>
<tr>
<td>Academic Advising Center</td>
<td>696-3169</td>
</tr>
<tr>
<td>Alumni Affairs</td>
<td>696-3134</td>
</tr>
<tr>
<td>Artists Series</td>
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<tr>
<td>Athletic</td>
<td>696-5408</td>
</tr>
<tr>
<td>Ticket Office</td>
<td>696-4373</td>
</tr>
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<td>Attorney for Students</td>
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<td>Bookstore</td>
<td>696-3622</td>
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<tr>
<td>Cafeeteria:</td>
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<tr>
<td>Holderby Hall</td>
<td>696-4895</td>
</tr>
<tr>
<td>Twin Towers</td>
<td>696-4894</td>
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<td>Campus Christian Center</td>
<td>696-2444</td>
</tr>
<tr>
<td>Career Counseling</td>
<td>696-2370</td>
</tr>
<tr>
<td>Disabled Students</td>
<td>696-2271</td>
</tr>
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<td>Greek Affairs</td>
<td>696-2284</td>
</tr>
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<td>Learning Center</td>
<td>696-6213</td>
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<td>Learning Disorders</td>
<td>696-6252</td>
</tr>
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<td>Library</td>
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</tr>
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<td>Residence Services</td>
<td>696-6765</td>
</tr>
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<td>Student Activities</td>
<td>696-6770</td>
</tr>
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<td>Student Center</td>
<td>696-6472</td>
</tr>
<tr>
<td>Student Counselor Protection Agency</td>
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</tr>
<tr>
<td>Off-Campus Housing</td>
<td>696-6435</td>
</tr>
<tr>
<td>Student Financial Assistance</td>
<td>696-3162</td>
</tr>
<tr>
<td>Student Government</td>
<td>696-6435</td>
</tr>
<tr>
<td>Student Support Services</td>
<td>696-3164</td>
</tr>
<tr>
<td>Substance Abuse Education Program</td>
<td>696-3111</td>
</tr>
<tr>
<td>Theatre</td>
<td>696-6442</td>
</tr>
</tbody>
</table>
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Marshall University Story</td>
<td>5</td>
</tr>
<tr>
<td>Enrollment Management</td>
<td>15</td>
</tr>
<tr>
<td>Financial Information</td>
<td>35</td>
</tr>
<tr>
<td>Academic Information</td>
<td>41</td>
</tr>
<tr>
<td>Academic Excellence</td>
<td>71</td>
</tr>
<tr>
<td>College of Business</td>
<td>77</td>
</tr>
<tr>
<td>College of Education and Human Services</td>
<td>91</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td>133</td>
</tr>
<tr>
<td>College of Liberal Arts</td>
<td>141</td>
</tr>
<tr>
<td>College of Science</td>
<td>159</td>
</tr>
<tr>
<td>Community and Technical College</td>
<td>185</td>
</tr>
<tr>
<td>Graduate School</td>
<td>189</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>191</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>197</td>
</tr>
<tr>
<td>Courses of Instruction</td>
<td>207</td>
</tr>
<tr>
<td>The Faculty</td>
<td>297</td>
</tr>
</tbody>
</table>
The Marshall University 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 in effect for a period of ten consecutive years for undergraduate degrees and certificates and five 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.
The Marshall University Story
The Marshall University Story

Marshall University, one of West Virginia's two State universities, encourages individual growth by offering programs and instruction in attainment of scholarship, acquisition of skills, and development of personality.

The university provides students with opportunities to understand and to 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.

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

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

MISSION OF THE UNIVERSITY

General Statement of Purpose

Upon graduation a baccalaureate student should (1) think logically, critically, and creatively and be able to recognize this ability in others; (2) communicate ideas clearly and effectively both in speaking and writing; (3) evaluate the influences that help to shape individuals, institutions, and societies; (4) understand the values, achievements, and aesthetic contributions of past and present cultures; and (5) perceive, investigate, and solve problems by enlisting the most appropriate historical, comparative, quantitative, and qualitative research methods available.

Statement of Philosophy

While institutions of higher education differ in size and function, they share a common core of values; these help shape and guide their academic life. Marshall University is committed to seven basic principles.

The first and most basic commitment of Marshall University is to undergraduate education.

A second and major commitment of Marshall University is the enhancement of graduate education.

Third, Marshall University is committed to expanding the body of human knowledge and achievement through research and creative arts activities.

A fourth characteristic of Marshall University is its commitment to society through public service.

A fifth commitment of this university is diversity in its student body, its faculty and staff, and its educational programs.

A sixth commitment of Marshall University is to academic freedom and shared governance.

Finally, Marshall University is committed to assuring the integrity of the curriculum through the maintenance of rigorous standards and high expectations for student learning and performance.

Identification of Areas of Current Emphasis

The following areas of emphasis will command the commitment of institutional resources.

A commitment to high quality undergraduate liberal arts education, broadly defined.

A commitment to rural health care, including medicine, nursing, nutrition, health education, health care management, etc.

A commitment to schools and schooling, including teacher education and the setting of the agenda for education in southern West Virginia.
Economic development, which would include programs in education, science, business, the Community and Technical College, perhaps engineering, and a broad range of fields.

A commitment to the fine arts and humanities because Marshall is and should be the cultural center of this community.

A new commitment to high quality graduate programs (masters, specialists, and doctoral degrees).

Finally, a university concerned with environmental issues which, unquestionably, will be a dominant factor of life in the 21st Century.

In accord with the first and most basic commitment of Marshall University as outlined in the Statement of Philosophy of the Mission Statement and the above seven areas of emphasis, Marshall University will strive to develop programs that will be recognized nationally for their excellence. Toward this goal strong emphasis will be placed on high quality teaching and interaction with the individual student. Uniform guidelines for monitoring instruction and corrective measures will be developed and implemented by college deans. Programs that have University commitment to independent accrediting will be brought into compliance and maintain accrediting agency guidelines.

ASSESSMENT

The assessment initiative is rooted in the University's mission. The assessment initiative grew from both faculty and administration concern for academic quality and instructional excellence. The assessment process provides the institution, colleges, and departments with information regarding academic quality, which relates to the central commitment of the institution to undergraduate education. The institution has developed a comprehensive plan of student assessment which involves students, faculty, staff and administration.

HISTORY

The campus of Marshall University is located in Huntington, West Virginia, just across the Ohio River from Ohio, and thirteen miles from the Kentucky border. It is served by rail, air, and highway transportation.

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. Tradition has it that 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. At the spot called Maple Grove they chose one and one-quarter acres of land on which 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 was paid for the site.

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. Curby from 1896 to 1915 that the college began its real growth. In 1907, enrollment exceeded 1,000.

Since then Marshall's expansion has been consistent and sometimes spectacular. The College of Education, first called Teachers College, was organized in 1920 and the first college degree was awarded in 1921. The College of Arts and Sciences was formed in 1924, and the Graduate School was organized in 1948. The College of Applied Science came into being in 1960; the School of Business was formed in 1969. These were merged into the College of Business and Applied Science in 1972. In 1974 the School of Medicine and Associated Health Professions was established. The Community College was organized in 1975 and became the Community and Technical College in 1991, and the College of Science was authorized by the Board of Regents in 1976. In 1977, the Board approved a change of name for the College of Arts and Sciences to the College of Liberal Arts, and for the College of Business and Applied Science to the College of Business. In 1978, the School of Nursing was established as a separate entity, the other Associated Health Professions were transferred from the School of Medicine to the College of Science, and the School of Journalism was authorized as a
part of the College of Liberal Arts. The most recent addition was the College of Fine Arts in 1984. Marshall was authorized in 1992 to award the Ph.D. degree, in Biomedical Sciences.

Marshall was granted University status in 1961. As of April 1, 1996, alumni numbered approximately 70,072.

Since the formation of the West Virginia Board of Regents in 1969 and now under the University of West Virginia Board of Trustees, Marshall's progress as an urban-oriented university has been given strong impetus. As a result of this support, and because of its own active leadership and its location in the thriving Tri-State area, Marshall is a university with excellent prospects for future development.

ACCREDITATION

Marshall University is accredited as an institution for higher education by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. The teacher education programs are accredited by the National Council for Accreditation of Teacher Education and the West Virginia State Department of Education. Marshall also is a member of the Council of Graduate Schools in the United States. Academic credits earned at Marshall University are fully standardized for acceptance by all other colleges and universities. The Elizabeth McDowell Lewis College of Business is accredited by the American Assembly of Collegiate Schools of Business (AACSB).

The Department of Chemistry is accredited by the Committee on Professional Training of the American Chemical Society. The Bachelor of Science in Nursing Degree Program is accredited by the National League for Nursing. The News-editorial Sequence of the School of Journalism and Mass Communications is accredited by the American Council on Education in Journalism and Mass Communication. The Department of Music is an accredited institutional member of the National Association of Schools of Music. Engineering Technology is accredited by the Accrediting Board for Engineering Technology. The Cytotechnology program is accredited by the Council on Accreditation of Allied Health Education Programs in collaboration with the American Society of Cytology. The Medical Technology program and the Medical Laboratory Technician programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). The Health Information Technology program is fully accredited by the AMA's Committee on Allied Health Education and Accreditation in cooperation with the Council on Education of the American Health Information Management Association. The School of Medicine is accredited by the Liaison Committee on Medical Education of the American Medical Association and the Association of American Medical Colleges, and the School's Residency Programs in Internal Medicine, Pathology, Transitional Residency, Surgery, Pediatrics, and Family Practice are accredited by the Accreditation Council for Graduate Medical Education. Continuing Medical Education is accredited by the Accrediting Council for Continuing Medical Education. The graduate program in the Department of Communication Disorders is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association. The Legal Assisting Program is American Bar Association Approved. The Athletic Trainer program is approved by the National Athletic Trainer Association. Park Resources and Leisure Service is accredited by the National Recreation and Park Association and the American Alliance of Leisure and Recreation. The University is an Agency Member Unit of the American Home Economics Association. Both the didactic program in dietetics (DPD) and the preprofessional practice program (Plan IV) have been granted approval status by the American Dietetic Association. Continuing Education in the United States Department of Education. In the Business and Office Technology Division, the Banking and Finance, Management Technology, and Office Technology programs are accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Safety Technology programs are conditionally accredited by the American Society of Safety Engineers. Social Work is accredited by the Council on Social Work Education.

The University is approved for attendance of nonimmigrant international students under the Federal Immigration and Nationality Act, and is approved by the American Association of University Women. Other major organizations in which Marshall holds membership, in addition to those named above, are the American Association for Affirmative Action, American Association of State
Colleges and Universities, the American Assembly of Collegiate Schools of Business, the American Association of Colleges for Teacher Education, Teacher Education Council of State Colleges and Universities (TECSCU) Association for Schools, Colleges & University Staffing, The American Association of Community and Junior Colleges, the American Council on Education, the American Library Association, the Southern Council on Collegiate Education for Nursing, the Southern Conference, NACUBO-SACUBO, and the National Collegiate Athletic Association.

DIVISIONS

The university functions through nine divisions: College of Business, College of Education and Human Services, College of Fine Arts, College of Liberal Arts, College of Science, Community and Technical College, Graduate School, School of Medicine, and School of Nursing.

MARSHALL UNIVERSITY LIBRARIES

The Marshall University Libraries are comprised of the James E. Morrow Library and three branch libraries: The Health Science Library, the Music Library and the Hoback Chemistry Library. The James E. Morrow Library is a handsome campus landmark of imposing Georgian design and centrally located for campus access. The Health Science Library is located on the lower level of the Community and Technical College Building, the Music Library is on the first floor of Smith Music Hall, and the Hoback Chemistry Library is in Room 460 of the Science Building. Construction is under way for a new technologically sophisticated main library building which will include library and computing services and a new Health Science Library located adjacent to Cabell-Huntington Hospital.

The Libraries play an essential role in the educational and research activities of the University by making accessible informational materials necessary to carry out the academic and research programs. The collections include 1.7 million items of which 426,000 are bound books and periodicals. A wide variety of audio-visual materials is available.

As a U.S. Government Depository Library, selecting approximately 60% of all available documents, the Library has a collection of more than 952,000 items. The Special Collections Department provides materials on West Virginia, the Tri-State area and Appalachian region. Rare books, manuscripts, MU archives, the Rosanna Blake Library of Confederate History, and the Hoffman Collection of Medical History are located in Morrow Library. The Morrow Library has one of the most heavily used computer labs on campus, providing access to a variety of software products, several CD-ROM databases and the Internet.

STUDENT ACTIVITIES

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, affairs, and off-campus and commuting students.

The various units within Student Activities are as follows:

1. Student Activities
2. Recognized Student Organizations
3. Judicial Affairs
4. Student Governance
5. Student Legal Aid
6. Greek Affairs (fraternities and sororities)

Marshall University 1997-99 Undergraduate Catalog

The Marshall University Story/9
Education Records: 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:

a. to be informed of the provisions of the Act through adoption of an institutional policy;
b. to inspect and review the records of the student;
c. 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;
d. to review the record of disclosures which must be maintained by the university; and
e. 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 either the Dean of Student Affairs, Ombudsman, or the Attorney for Students.

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.

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.

Judicial Affairs

The faculty and administration recognize the rights and responsibilities of students. These include the privilege and obligation of maintaining high standards of social and personal conduct. While encouraging students to develop independence, the University embraces the concept that liberty and license are not synonymous, and it therefore accepts the obligation to maintain standards which will provide for the welfare of the individual and the campus community at large.

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 registration constitutes acceptance of these responsibilities and standards; thus registration serves as an agreement between the student and the University. Failure to adhere to the policies and conduct regulations of the University places the student in violation of the Marshall University Code of Conduct and may, therefore, subject the student to disciplinary action such as disciplinary warning, a period and degree of probation, suspension, or expulsion. All registered students are subject to the Code at all times while on or about university-owned property, or at university sponsored events.
Students are expected to be thoroughly familiar with the rights, regulations, and policies outlined by the Board of Trustees and all University rules and regulations as expressed in this catalog and in The Student Handbook. Copies of The Student Handbook are available in the Student Activities Office, the Student Government Office, and the office of the Dean of Student Affairs.

STUDENT DEVELOPMENT

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

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

1. Counseling Center
2. Women and Returning Students Programs
3. Student Health Education/Substance Abuse Prevention
4. Tutoring and Disabled Services

Student Health Service

Student Health Service (SHS) is provided by John Marshall Medical Services, Inc., an affiliate of the University's School of Medicine. The clinic is located at 1801 Sixth Avenue, one block southeast of the main campus, and is open from 8:00 a.m. to 5:00 p.m. Monday through Friday. The clinic is closed on Saturday, Sunday, and Holidays.

Student Health Service will be provided from the first day to the last day of each fall, spring, and summer class session to students who pay full student activity fees and attend classes scheduled between semesters (intersession). Marshall University students who present current validated activity and identification cards are eligible to use this service.

Academic Skills Center, Community and Technical College

The Learning Center offers a 1-3 credit hour program (CR/NC) in the development of academic skills, math, writing, reading, spelling, vocabulary, study skills, English as a second language, GRE, SAT, PPST, Michigan Test preparation, and other areas. Each self-paced program is individually designed to the needs of the student. Students may use this course to build basic academic skills, reinforce class work, prepare for future studies, or refresh existing skills. Students may enroll in REA 099 throughout the semester. The Learning Center is located in the Community and Technical College Building, Room 138. For more information call 696-3016.

Psychology Clinic

The Department of Psychology staffs a clinic which provides consultation and services on a wide range of psychological problems for Marshall students, staff, and the general public. A variable fee schedule is negotiable. The clinic is located in Harris Hall and inquiries and appointment requests should be directed to the Clinic Office in Harris Hall 449, telephone 696-2772. The clinic is staffed by graduate students in clinical training; some faculty services are also available.

Speech and Hearing Center

The Department of Communication Disorders operates the Speech and Hearing Center which provides help 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. A reduced fee is available to Marshall students, faculty and staff.

Inquiries regarding services provided or scheduling should be directed to the Office Manager (304) 696-3640. The Center is located in Smith Hall 143.

The Department of Communication Disorders also provides special training for students requesting assistance with dialect change or foreign dialect. People who have foreign dialect or who have non-standard speech patterns not considered to be clinically significant but which they wish to change may be scheduled in the clinic.

The center is located in Smith Hall 143, telephone 696-3640.

Higher Education for Learning Problems

H.E.L.P. is an individualized tutorial program for learning disabled students. Assistance with course work, study skills, note-taking skills, and oral testing is available. Graduate assistants conduct tutorial sessions. Remediation in reading and spelling is available from Learning Disabilities Specialists. Application to H.E.L.P. must be made separately from application to the University and should be completed no less than one year in advance. Information from Dr. Barbara Guyer, Special Education, phone (304) 696-6317.

RESIDENCE HALLS

The Department of Residence Services provides on-campus living space for approximately 2,100 students. Individual halls will accommodate from 120 to 500 residents in double occupancy rooms. All halls are located within easy walking distance of academic buildings. There is 24-hour security in every building. Every room has cable television, and local and long-distance telephone service. Each hall is managed by a Resident Director with a Resident Advisor on every floor to provide the students with the best possible living and learning conditions.

Marshall requires all full-time freshmen and sophomore students to live on campus. Exceptions are granted to those living within a 50 mile radius who live at home with a parent or guardian: individuals 21 years of age; those who are married; or those who have been high school graduates more than two years.

UNIVERSITY HEIGHTS APARTMENTS

The Department of Residence Services also maintains 78 furnished apartments. The two- and three-story buildings are located approximately four miles from the main campus. The apartments are open to enrolled Marshall University students who are over 21 years of age; or married; or graduated high school more than two years ago; or live with their dependent child(ren); or have attained junior class standing.

For additional information concerning on-campus housing, or the apartments, please contact the Department of Residence Services at (304) 696-6765; or FAX (304) 696-6161.

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, handicap, 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. Marshall University strives to provide educational opportunities for minorities and women in the undergraduate student body which reflect the interest, individual merit and availability of such individuals. The university ensures equality of opportunity and treatment in all areas related to student admissions, instruction, employment, placement accommodations, financial assistance programs and other services.
INTERIM EXECUTIVE POLICY BULLETIN NO. 7
Effective Date: August 8, 1994

POLICY REGARDING WEATHER-RELATED AND/OR EMERGENCY CLOSINGS AND DELAYS

Generally, it is Marshall University's policy to maintain its normal schedule, even when conditions are inclement. However, this 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:

1. Television stations in Huntington and Charleston will be notified.
2. Radio stations in Huntington and Charleston will be asked to announce the delay or closing.
3. Time permitting, newspapers in Huntington and Charleston will be notified. Often, however, decisions must be made after the deadlines of newspapers.
4. The Director of University Relations will communicate the specific details of the closing as follows:
   a. To the Office of Public Safety at 696-HELP.
   b. To the AUDIX of the Director of Campus Technology at 696-3335 and to the Director at his/her home.
5. The Director of Campus Technology will place the closing message on the entire university AUDIX system as well as the University response number: 696-3170.

Definitions:
   a. University Closed: All classes suspended and offices closed.
   b. Classes Canceled: All classes suspended; offices open.
   c. Delay: A delay in the beginning of activities, usually in the range of one to two hours. For example, since normal operations of the university begin at 8:00 a.m., a two hour delay would mean functions would begin at 10:00 a.m. As a result, Monday, Wednesday or Friday classes beginning at 8:00 a.m. or 9:00 a.m. would be canceled; 10:00 a.m. classes would meet. Tuesday or Thursday classes beginning at 8:00 a.m. would be canceled; those scheduled for 9:30 a.m. would begin instead at 10:00 a.m. in an abbreviated session. In most instances, delays on Tuesday or Thursday will be 90 minutes, enabling 9:30 classes to begin on schedule.

Clarification

Since announcements in the mass media are subject to inadvertent distortion, incompleteness or misunderstanding, clarification may be obtained by telephoning Marshall University at 696-3170.

Staff and Administration Personnel

The university will be completely closed only rarely and in extreme situations since it is essential that public safety be maintained, that buildings and equipment be protected and that services be provided for those students housed in campus facilities. Therefore, although classes may be canceled, all university staff and administrative employees will be expected to report to work, unless notified otherwise.

In the event of critical need, certain employees may be required to report to work or temporarily
reside on campus to ensure human safety and preservation of university property and/or facilities.

Individual employees may, in their best judgment, determine the risk of travel to be too great and elect to remain at home. Those who do so should contact their respective supervisors and indicate they are: (1) taking annual leave that day, or (2) taking compensatory time, in the event compensatory time is owed them.

In the event a building, or a section of a building is closed (because of heat loss, power outage, etc.), employees working in the affected area will be permitted to take their work to another area or building on campus. Or, in consultation with the supervisor, the employee may elect to take annual leave that day, or take compensatory time off.

In the event of an extreme situation (tornado, flood, ice storm, campus disturbance, etc.) and if the employees' presence is not desired on campus, this information will be disseminated to the news media. A decision as to whether the missed time will be chargeable to annual leave, compensatory time, or a non-pay situation will be determined by the President and communicated through supervisors.

Supervisors must take steps to ensure offices and/or work stations are open to employees at all times when those employees are expected to be at work, including inclement weather situations and other disruptive situations.

Faculty

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

Decision-making

Decisions on closings and/or delays will be made jointly by the Vice President for Academic Affairs and the Senior Vice President for Operations following consultation with other appropriate officials, including the President. Should only one of those two Vice Presidents be available, that person will make the decision.

Every effort will be made to reach a decision to allow time for adequate notification to the news media and, in turn, those affected.
Enrollment Management
Admissions

GENERAL ADMISSION PROCEDURE

Persons applying for admission to Marshall University must file an application form provided by the Office of Admissions. All credentials in support of an application should be on file at least two weeks before the opening of a semester or term.

A non-refundable $10 application fee is required for West Virginia residents.
A non-refundable $25 application fee is required for metro and out-of-state students.
A non-refundable $50 transfer evaluation fee is required for transfer students in addition to the application fee. Please make a separate check payable to Marshall University with student's name and Social Security number on check. The transfer evaluation fee will be applied to the student's first semester tuition.

Correspondence and matters pertaining to admissions should be addressed to:
Director of Admissions
Marshall University
400 Hal Greer Boulevard
Huntington, West Virginia 25755
Telephone 1-800-642-3499 or 1-304-696-3160

GENERAL REQUIREMENTS OF ALL APPLICANTS FOR ADMISSION

All credentials submitted in support of an application for admission become the property of the University and are not returned to the student. Such credentials include an official transcript of high school and/or college grades, ACT or SAT test scores, immunization record, and the application form for admission. The prospective student is responsible for the submission of all necessary forms and records in support of an application for admission. The Board of Trustees requires all first-time, full-time freshmen to submit the ACT or SAT test scores except those who graduated from high school more than five years ago.

Prospective students are notified as soon as action is taken on their applications.
Admission is for one term only and may be used only for that time. If the student fails to register during the term for which he/she has been admitted, he/she must file another application and provide necessary credentials for any semester or term thereafter.
Admission to the University does not guarantee housing. An application for housing must be submitted after the student has been admitted to Marshall University. All housing arrangements must be made through the Office of Housing.
A housing reservation or a scholarship award or grant-in-aid is void unless the student applies for and is admitted to the University.
Any student admitted on the basis of false and/or incomplete credentials is subject to immediate dismissal from Marshall University.
All students must be fully admitted to re-enroll for succeeding terms.
NOTE: Community and Technical College admission requirements are different. (See Community and Technical College section of this catalog.)

ADMISSION AS FRESHMEN

Regular admission as freshmen is open to all students who have a high school diploma and an overall grade point average of at least a 2.00 (C average) or a composite score of at least 17 on the ACT or a combined score of at least 810 on the SAT and who have completed the 1990 Board of Trustees course requirements. GED scores are accepted for admission (see section on Admission by General Education Development Tests.) (Note: Community and Technical College admission requirements are different. See Community and Technical College section of this catalog.)

A student who completes a college course while in high school or in summer school must submit a college transcript to the Admissions Office prior to first registration.
Conditional admission may be granted where there is evidence that the applicant has the potential to complete college-level work successfully. Students admitted will be evaluated at the conclusion of each semester and will be permitted to continue only if they are in good academic standing as determined by the college to which they have been admitted.

The following high school units are required for admission to the 4-year program of study. If a student does not meet the course requirements, see the section on the Transition Program.

### Board of Trustees Admissions Requirements

<table>
<thead>
<tr>
<th>Units (Years)</th>
<th>Required Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>English (including courses in grammar, composition, literature)</td>
</tr>
<tr>
<td>3</td>
<td>Social Studies (including U.S. History)</td>
</tr>
<tr>
<td>2</td>
<td>Laboratory Science (from Biology, Chemistry, Physics, and other courses with a strong laboratory science orientation)</td>
</tr>
<tr>
<td>2</td>
<td>Mathematics (Algebra I and higher)</td>
</tr>
</tbody>
</table>

**Strongly Recommended Units**

- Foreign Language

Students with a 2.70 GPA and ACT of 18 will be admitted to a 4-year degree program regardless of high school courses completed.

Admission to the university is not necessarily admission to a particular college or curriculum. Each student must meet the requirements of the college he/she wishes to enter, or of the degree sought.

Entrance into certain programs may entail requirements in addition to those stated above. For example, entrance into the nursing program requires early application deadline (see application jacket for date), adequate performance on the ACT or SAT and an interview. Applicants for the nursing program are required to submit two separate application forms and two transcripts, one set to be sent to the Office of Admissions and the other to the School of Nursing.

### TRANSITION PROGRAM

Baccalaureate applicants who do not meet one or more of the admission course requirements will first be admitted to the Transition Program in the Community and Technical College. The Transition Program offers courses which will satisfy the requirements for undergraduate admission. These courses do not satisfy any graduation requirements and must be passed before a student may be admitted to a 4-year degree program.

### EARLY ENTRANCE POLICY FOR GIFTED AND TALENTED STUDENTS

(Prior to their senior year in high school)

The Director of Admissions at Marshall University, together with the Director of University Honors, will admit exceptionally able students who have not completed public school for enrollment in university courses on either a full or part-time basis. These students will be supervised by the Director of Honors and will be eligible for all the privileges and opportunities accorded other Honors students.

To qualify for early entrance under this program, students must meet all of the criteria in the category for which they are applying:

**Full-time Admission**

1. An ACT or SAT test score at least at the 85th percentile.
2. An intelligence test score at least at the 97th percentile or approved T.A.G. participation.
3. A B (3.00) or better overall grade point average.
4. Recommendation from two teachers who are familiar with the student's academic performance.
5. A written plan and agreement to finish the G.E.D. or H.S. diploma prior to graduation at Marshall University.

Marshall University 1997-99 Undergraduate Catalog
Part-time Admission:
1. An ACT or SAT score at least at the 85th percentile or approved T.A.G. participation, or strong evidence of outstanding accomplishment in the discipline in which the student wants to enroll.
2. A B (3.00) GPA in the discipline in which the student wants to enroll.
3. Recommendations from two teachers who are familiar with the student's academic performance or by experts in the student's talent area.
4. A written plan and agreement to continue in high school during the part-time enrollment.

Admissions Procedure:
Students must submit to the Director of Admissions the normally required application materials for admission to Marshall University as well as those materials required by the Early Entrance program.

EARLY ADMISSION OF ACADEMICALLY OUTSTANDING HIGH SCHOOL STUDENTS (High school seniors only)

For the purpose of dual credit or getting an early start with college courses the university admits high school students who have completed the junior year. To be eligible for admission under this program a student must:
1. Have completed the junior year of high school and be currently enrolled in high school.
2. Have the minimum ACT or SAT scores required for placement in college level courses.
3. Have a 3.0 or better overall grade point average, 9th through 11th grade.
4. Submit transcripts of high school credits and grades.
5. Submit an application and fee for admission.
6. Have the recommendation from a counselor or principal.

THE AMERICAN COLLEGE TEST OR SCHOLASTIC APTITUDE TEST

The Board of Trustees requires all first-time, full-time Freshmen to submit the American College Test (ACT) or Scholastic Aptitude Test (SAT) profiles before they register unless the student graduated from high school more than five years ago. ACT or SAT test scores are used in placing students in sections of English and Mathematics, for scholarship and loan applications, in the academic counseling programs of the colleges and to partially meet NCAA athletic eligibility requirements. High school students are urged to take either test during the first semester of their senior year at the nearest test center. Information and applications may be secured from the high school principal or counselor. The test results should be on file in the Admissions Office before a full-time student plans to participate in orientation or registration.

ACT-ADMISSIONS OPTION FOR FRESHMEN

The ACT Examination may be taken during the junior year of high school or early in the senior year. (Note: Marshall's code number 4526 should be listed). If ACT scores are received at Marshall no later than May 1 of the senior year, an application form will be mailed to the prospective applicant for completion. The high school counselor should confirm the grade-point average, sign the form, and mail it and a high school transcript to the Admissions Office.

If a person choosing the ACT-Admissions Option wishes to apply for financial aid, he/she must take the ACT Examination no later than December of the senior year and request scores to be forwarded to Marshall University (4526).

If a person choosing the ACT-Admissions Option wishes to apply for sports programs, he/she will need to arrange for the grade-point average to be forwarded to the Admissions Office on the transcript mailed at the time of provisional admission. The official transcript of the high school record is required along with a NCAA Core Form.
ADMISSION OF TRANSIENT STUDENTS

Any person who is a degree candidate at another collegiate-level institution and wishes to enroll at Marshall for one term or two summer terms to use Marshall credit toward his/her degree may be admitted as a transient student. That student must submit an application to the Admissions Office, have his/her home college send a letter of good academic standing to the Admissions Office to be admitted and must have attended the home college during the previous calendar year.

ADMISSION OF TRANSFER STUDENTS

Transfer students from West Virginia state colleges or universities should refer to the Core Course work Agreement available in the Admissions Office and deans' offices at Marshall University.

To be eligible for admission, transfer applicants must have an overall 2.00 GPA (C average) on all college work attempted and must be eligible to return to the institution or institutions from which they wish to transfer.

Transfer applicants must request official transcripts from the Registrar's Office of all collegiate institutions attended to be sent directly to the Marshall Admissions Office. Transcripts marked “Issued to Student” or submitted directly by students cannot be accepted. All transfer applicants must pay a non-refundable transfer evaluation fee of $50.00 before an application is processed and credit evaluated. The $50.00 fee will be applied to a student's tuition if he/she is enrolled in the semester admitted or within one year after that date. Transfer applicants with less than 26 semester hours credit must also submit an official high school transcript and ACT or SAT scores. The high school transcript will be evaluated according to freshmen admission standards (see section on Admission as Freshmen).

Any person who has attended another accredited post-secondary institution with or without earned credit, is classified as a transfer student. The University does not at any time or under any conditions disregard college or university credits attempted or earned elsewhere in order to admit an applicant solely on the basis of the high school record.

Transfer students who have earned a 2.5 GPA and are currently enrolled at another collegiate institution may be provisionally admitted pending receipt of the final transcript. Students with less than a 2.5 GPA and currently enrolled at another institution must submit a final transcript before admission can be granted.

The evaluation of transfer credit must be completed before students may register for courses. Since this is a complex process, it is important for students to apply and submit credentials at least two months prior to registration. All credentials submitted in support of an application for admission become the permanent property of the University.

The policy regarding transfer of student credits and grades between two-year and four-year institutions in the public higher education system of West Virginia is as follows:

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

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

Transfer students must fulfill the graduation requirements of Marshall University to receive a degree.

NOTE: 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.

ADMISSION OF PART-TIME STUDENTS

Part-time students must meet the same admission requirements as full-time students, with the exception of the ACT/SAT requirement, and the measles and rubella vaccination requirement.

ADMISSION OF SPECIAL STUDENTS

Applicants who hold the baccalaureate degree from an accredited institution may enroll for undergraduate courses by completing the application for admission and by presenting evidence of the
receipt of the degree, either final transcript or diploma. Applicants who wish to pursue a second baccalaureate degree must apply as transfer students and submit official transcripts from all institutions attended.

ADMISSION OF AUDIT STUDENTS

Applicants who wish to audit classes must file an application for admission to the university and obtain the permission of the instructor to attend the class. The fees for attendance as an auditor are the same as those for other undergraduate students.

NON-DEGREE ADMISSIONS POLICY

Persons who desire university instruction without wishing to become undergraduate degree candidates may be admitted as non-degree students by completing the admissions application. Before enrolling in a class, non-degree students must obtain the permission of the dean of the college in which the course is being offered.

Non-degree students may apply later as advanced standing degree students by filing the necessary documents, provided they meet the admission requirements described in the current undergraduate catalog. However, work taken as a non-degree student cannot in itself qualify a person for admission as a degree candidate. Credits earned will be evaluated by the dean of the college to determine which courses may be transferred from non-degree to degree credit. The fees for attendance as a non-degree student are the same as those for other undergraduate students. Non-degree enrollment is not available for persons under suspension by the university.

A maximum of 30 semester hours of credit may be taken as non-degree credit by undergraduate students.

The non-degree student is not eligible for financial aid.

ADMISSION BY GENERAL EDUCATION DEVELOPMENT TESTS

Applicants for GED admission, veterans and nonveterans, must be past the age and time of their normal high school graduating class.

Applicants for admission who completed the test in the Armed Forces may have an official copy of their scores forwarded to the Office of Admissions by writing to DANTES, Princeton, New Jersey 08541.

A GED graduate is admitted on the basis of a standard score of 45 or above on each of the five parts of the test or an average standard score of 50 or above on the entire test.

The test must be taken in the state in which the student is currently residing.

No course credit is granted for completion of the college level GED Test.

MEASLES AND RUBELLA VACCINATION REQUIREMENT

All full-time undergraduate students of the State System of Higher Education under the jurisdiction of the Board of Trustees who were born after January 1, 1957, except those exempted by this policy statement, shall be required to provide proof of immunity to measles and rubella. The student must provide proof of immunity prior to or during the first semester of enrollment or will not be permitted to enroll in subsequent terms.

ADVANCED PLACEMENT EXAMINATION

Marshall University recognizes the examinations of the College Board Advanced Placement Program. A student who participates in the AP program and wishes to have his/her scores evaluated for credit should have his/her examination results sent to Marshall (code is 5396).

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.
The academic departments at Marshall have determined their particular policies on AP credit. Credit will not be allowed for scores below 3. Refer to the following chart for information on individualized examinations.

<table>
<thead>
<tr>
<th>Examination</th>
<th>Minimum Score</th>
<th>Credit Hour</th>
<th>Course Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art (Studio)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Drawing Portfolio</td>
<td>3</td>
<td>3</td>
<td>Unclassified ART</td>
</tr>
<tr>
<td>General Portfolio</td>
<td>3</td>
<td>3</td>
<td>Unclassified ART</td>
</tr>
<tr>
<td>Art History</td>
<td>3</td>
<td>3</td>
<td>ART 112</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>8</td>
<td>BSC 104-105</td>
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<tr>
<td>Chemistry</td>
<td>3</td>
<td>8</td>
<td>CHM 203, 204, 215</td>
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<td>9</td>
<td>CHM 203, 204 &amp; 211</td>
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<td>5</td>
<td>12</td>
<td>CHM 203, 204, 211 &amp; 212</td>
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<td>Classics</td>
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<td>Latin: Virgil</td>
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<td>3</td>
<td>LAT 204</td>
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<tr>
<td>Latin: Catullus/Horace</td>
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<td>Unclassified</td>
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<td>Computer Science</td>
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<td>3</td>
<td>CSD 101</td>
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<td>Computer Science AB</td>
<td>3</td>
<td>6</td>
<td>CSD 101 &amp; 119</td>
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<td></td>
<td>(6 units maximum for both tests)</td>
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<td>Economics</td>
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<td>Microeconomics</td>
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<td>Macroeconomics</td>
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<td>3</td>
<td>ECN 253</td>
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<td>English</td>
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<tr>
<td>English Language &amp; Composition</td>
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<td>3</td>
<td>ENG 101</td>
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<tr>
<td>English Literature &amp; Composition</td>
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<td>3</td>
<td>ENG 310</td>
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<tr>
<td>English Literature &amp; Composition</td>
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<td>6</td>
<td>ENG 310 plus ENG 331</td>
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<td>ENG 319 or ENG 323</td>
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<td>Environmental Science</td>
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<td>Foreign Language</td>
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<tr>
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COLLEGE LEVEL EXAMINATION PROGRAM

The College Level Examination Program (CLEP) is offered at Marshall University and 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 have prepared the student to earn college credit through CLEP tests and thereby reduce the total amount of course work needed to complete degree programs. In addition, scores on the test may serve to validate educational experience obtained at a nonaccredited 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. A student expecting to apply CLEP credit toward degree requirements must consult with his or her major department and academic dean. Applications can be obtained in the Admissions Office.

SERVICE MEMBERS OPPORTUNITY COLLEGES

Marshall University has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of over 400 colleges and universities providing postsecondary education to members of the military throughout the world. As a SOC member, Marshall recognizes the unique nature of the military lifestyle 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.

CREDIT FOR MILITARY EXPERIENCE AND TRAINING

Physical Education for Veterans

Students who have successfully completed Initial Entry Training (Basic Training and Specialty Training), and who have completed at least 12 semester hours at Marshall with a cumulative GPA of 2.0 or better, shall upon their request be granted a maximum of four semester hours of credit in physical education.

Training Credit

The Commission on Accreditation of Service Experiences of the American Council on Education has developed equivalence credit recommendations for certain kinds of training received in the Armed Forces. This is credit in addition to that for physical education.

Veterans should contact the Admissions Office for evaluation of training. A copy of the DD Form 214 must be presented at that time with any and all certificates of training, diplomas, or other proof of formal military training.

Veterans should also 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.

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. Additional information concerning this class may be obtained by writing to:

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

Marshall University is authorized under U.S. Federal law to enroll nonimmigrant students with F-1 or J-1 visa status.

International applicants must submit the following documents to be considered for admission:

1. A Marshall University application form, which is obtained by writing to the Director of Admissions, Marshall University, Huntington, West Virginia 25755-2020, U.S.A. (A $25.00 non-refundable application fee is required. Check should be made out to Marshall University with student’s name and social security number clearly printed on it.) Transfer students are required to pay a $50.00 transfer fee.

2. Official transcripts in English of all high school, college or university academic credits and grades. The transcripts must be sent directly by the institution attended to the Marshall University Admissions Office.

3. Evidence of proficiency in the English language as indicated by one of the following:
   a. The Test of English as a Foreign Language (TOEFL) minimum score of 500 reported directly to Marshall University Admissions Office by the Educational Testing Service, Princeton, New Jersey 08540. Results from the test taken more than two years prior to the date submitted will not be considered.
   b. Michigan Test of English Language Proficiency (MTELP) equated score of 79 minimum.
   c. Completion of the advanced level in an intensive English language program comparable to level 9 of an English Language School (ELS).
   d. A degree or diploma from an accredited high school, college or university in which the language of instruction is English.
   e. English is the official native language of the country of permanent residence (England, Canada, New Zealand, etc.)

4. An affidavit of financial support either from a personal sponsor (parent, relative, friend, etc.) or scholarship agency (government, corporation, etc.) stating the availability of funds and the intention to support the educational and living expenses of the applicant for the duration of studies at Marshall University. Applicants who are self-supporting should provide a statement so indicating and accompany the statement with documentary evidence (bank statement, letter of employer, verifying study leave and salary arrangements, etc.) that funds are available for study.

5. The American Association of Collegiate Registrars and Admissions Officers (AACRAO) World Education Series Books will be used to determine admissibility of international students. If credentials cannot be converted to English, transcripts will need to be evaluated by the World Evaluation Service.

Upon receipt of the above documents, the applicant’s credentials are evaluated and a letter of admission and I-20 Certificate of Eligibility are sent; however, a $11,000 deposit must be received in the International Students’ Program Office before an I-20 form is issued to applicants from countries of proven credit risk, including Ghana, Iran, and Nigeria. Of this deposit, one-half (1/2) of the full-time tuition and fees for one year, and room and board for one year, if contracted with the University, is to remain on deposit as long as the student is enrolled. If the student subsequently moves off-campus, the money held for room and board will be refunded.

All nonimmigrant student applicants currently in the United States are required to submit an “International Student Advisor’s Report” which should be completed by an official at the United States educational institution last attended or currently being attended in the United States. Forms may be obtained from the Marshall University Admissions Office.

The International Student Office will provide a list of courses designed to enable students to improve English proficiency and aid them in their studies. Special courses include: Independent Study Skills offered by the Community and Technical College and the English as a Second Language Institute (ESLI)

The English as a Second Language Institute (ESLI) at Marshall University offers a program of intensive English language instruction to prepare international students for study at the University. ESLI operates year-round with three 15-week sessions (20 hours per week) which begin in May, September, and January. The program offers international students an excellent opportunity to improve their English and academic skills before entering a regular degree program while also helping them adjust to a new culture and community. Other programs offered by ESLI include an English
program for International Women and a semi-intensive English program that offers support to undergraduate and graduate students studying at Marshall. In addition to the ESL! programs, several courses offered in the Community and Technical College division of the University are available to improve reading, listening, speaking and study skills. The University Speech Clinic provides individual assistance at no cost to students seeking to improve spoken English. (Students awarded graduate assistantships may be required by their departments to attend the Speech Clinic.)

The international student must meet the measles/rubella vaccination requirement of the West Virginia Board of Regents.

International students should address questions regarding their immigration status or other areas to the advisor for International Students and Scholars Programs, 212 Old Main (304/696-6265).

POLICY STATEMENT: INTERNATIONAL STUDENTS MAJOR MEDICAL INSURANCE - NON-IMMIGRANT STUDENTS

1. Every non-immigrant student must show proof of having a current major medical insurance policy before being permitted to register each semester for any classes at Marshall University.
2. Proof of coverage shall be provided by the coordinator of International Students in the form of some written notification.
3. Before a non-immigrant student can be exempted from this policy, he/she must show proof of status adjustment to permanent resident.
4. Prior to registering, students may secure information on insurance options from the Associate Dean for Student Affairs or the International Student Advisor in Old Main.

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

POLICY REGARDING CLASSIFICATION OF STUDENTS AS RESIDENTS AND NONRESIDENTS FOR ADMISSION AND FEE PURPOSES

(Board of Trustees Series No. 34)

Section 1. General
1.1 Scope - Policy regarding residency classification of students for admission and fee purposes.
1.2 Authority - West Virginia Code (18B-1-6 & 18B-1-7 18B-10).
1.3 Filing Date - June 1, 1990
1.4 Effective Date - July 2, 1990

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 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 months of continued presence within the state prior to the date of registration, provided that such twelve 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 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 above. 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 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. 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 year period of time and satisfies the conditions of Section 3 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 decision 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.

9.1.1a The institutional committee on residency shall be comprised of members of the institutional community, including faculty and student representatives, and whose number shall be 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.

9.1.1b 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.

Adopted: West Virginia Board of Trustees, February 2, 1971
Revised: February 8, 1973; November 13, 1973; October 2, 1981
Revised: October 8, 1985; April 8, 1986; February 14, 1990
Student Financial Assistance

Marshall University offers financial assistance to students through a large number of academic scholarships, grants, loans, and employment. The purpose of the Office of Student Financial Assistance is to provide a financial aid process which enables students to inquire, make informed decisions on the acceptance of awards, and efficiently utilize federal, state, institutional, local, and private sources of funding.

GENERAL FINANCIAL ASSISTANCE INFORMATION AND APPLICATION PROCEDURES

To receive need-based financial aid from Marshall University or the federal and state governments, you must complete and submit the Free Application for Federal Student Aid (FAFSA).

The FAFSA is available from either the Marshall University Office of Student Financial Assistance, your high school guidance counselor, or your local library. This form must be submitted if you wish to be considered for all available aid resources including grants, loans, and student employment. No processing fee is required for the FAFSA.

You should mail the completed FAFSA as soon after January 1 as possible to receive consideration for any programs with limited funding. West Virginia residents must remember to meet the March 1 deadline for the West Virginia Higher Education Grant.

The FAFSA is used to determine your family's ability to meet the cost of your education, which in turn determines your "financial need." Four to six weeks after you mail the FAFSA, an acknowledgment will be sent to you by the federal application processor. Your data will also be submitted electronically to Marshall University. Marshall University's Title IV Institutional Code is 003815.

ACADEMIC SCHOLARSHIPS

Incoming freshmen and transfer students are automatically considered for scholarship assistance based upon their admission records. Students must be provisionally admitted by April 15.

Returning Marshall University students with current (96-97) scholarship awards must maintain a 3.5 GPA or better to receive consideration for award continuation. An application is not required. Continuing Marshall University students without current year (96-97) institutionally awarded academic scholarship assistance may apply for competitive scholarship awards by March 1 by submitting an application. A minimum 3.5 GPA is required for consideration.

Society of Yeager Scholars — High school students with a minimum ACT composite score of 28 or a minimum SAT score of 1260 may apply to become a Yeager Scholar. Recipients receive full payment of tuition and fees; approximately one-half of housing costs; a stipend for textbooks and supplies; $4000 for a study abroad experience; and a personal computer for their use while they are enrolled in the program. For additional information, contact the Society of Yeager Scholars at 1-800-438-5395. Application deadline is December 1. (NOTE: This scholarship is not awarded by the Marshall University Office of Student Financial Assistance).

John Marshall Scholars — High school seniors with an ACT composite score of 30 or higher and a 3.5 GPA will be invited to apply for a John Marshall Scholarship. Recipients will receive a tuition waiver and annual $1250 stipend. Students who maintain the required 3.50 GPA and meet other program requirements may apply for renewal of John Marshall awards.

Presidential Scholarship — High school seniors with an ACT composite score of 25-29 and a 3.5 GPA will be considered for a Presidential Scholarship. Recipients will receive awards of $ 1250 for one academic year. Students who maintain the required 3.50 GPA may apply for renewal of their Presidential Scholarships each year.
A. Michael Perry Freshman Scholarship — High school seniors with an ACT composite score of 21 and a 3.2 GPA are eligible for these scholarships. Recipients will receive awards of $500 for one academic year. This award is for one year only; however, students may apply for subsequent years on a competitive basis.

Some departmental scholarships are available. Application and eligibility criteria, as well as selection, are determined by the academic departments.

FINANCIAL ASSISTANCE PROGRAMS

NEED BASED AID

Federal Pell Grant - Provides the basis of a financial aid package. Awarded to eligible full or part-time undergraduate students. Applicants must complete the Free Application for Federal Student Aid (FAFSA).

Federal Supplemental Educational Opportunity Grant (SEOG) - Awarded to eligible full or part-time undergraduate students. Priority is given to Federal Pell Grant recipients. Applicants must complete the FAFSA.

West Virginia Higher Education Grant Program - Awarded to eligible full-time undergraduate West Virginia residents. Applicants must complete the FAFSA.

Federal Perkins Student Loan - Need-based loan awarded to eligible undergraduate and graduate students. Applicants must complete FAFSA. No additional loan application is required. Repayment begins nine months after student graduates or drops to less than half-time status.

Federal Direct Subsidized Loan - Need-based loan awarded to undergraduate and graduate/professional students who are enrolled at least half-time and demonstrate financial need. A variable interest rate is set each July, not to exceed 8.25%. The loan must be repaid beginning six months after student graduates or drops to less than half-time status. Annual maximum amounts available are $2,625 for freshmen, $3,500 for sophomores, $5,500 for juniors and seniors, and $8,500 for graduate/professional students. Maximum amounts may be limited by cost of education and other anticipated financial aid. (This program replaces the Federal Stafford Loan that was available through lenders such as banks and credit unions.) Applicants must complete the FAFSA.

Federal Direct Unsubsidized Loan – Loan (not need-based) awarded to undergraduate and graduate/professional students who are enrolled at least half-time and have not had their cost met through other aid awards. Loan amounts, interest rates, and repayment conditions are the same as for the Federal Direct Subsidized Loan described above. However, interest payments on the loan must be paid while the student is in school or be deferred and capitalized (added to the principal of the loan). For students receiving subsidized loan awards, the maximum unsubsidized loan may not exceed the difference between the subsidized loan and the maximum award amounts shown above. Applicants must complete the FAFSA.

Additional amounts of up to $4,000 for freshmen and sophomores, $5,000 for juniors and seniors, and $10,000 for graduate/professional students may be available to independent students or dependent students whose parents are unable to obtain a Federal Direct PLUS loan. Maximum amounts may be limited by cost of education and other anticipated financial aid. (This program replaces the Federal Stafford Unsubsidized Loan and Supplemental Loan to Students Program that was available through lenders such as banks and credit unions.)

The aggregate base eligibility (subsidized, unsubsidized, or a combination) for undergraduate students is $23,000 and $65,000 for graduate/professional students. Additional unsubsidized loan eligibility for independent students (and dependent students when a parent has been denied PLUS) is limited to $23,000 for undergraduates and $73,000 for graduate/professional students.

All first time borrowers are required to attend an entrance interview session designed to make the student familiar with his/her responsibilities as a student borrower. No loan proceeds will be disbursed for that student until this requirement has been fulfilled. Entrance interviews are typically held near the beginning of the academic term. Students will be advised of the time and place.
Federal Direct PLUS Loan - Originated by Marshall University and the U.S. Department of Education for parents of dependent students. Applicants must complete a Parent Loan Data Sheet. PLUS loans are limited only by cost of education minus other aid. The application will be submitted for a review of the parent borrower's current credit status. Applicants with an adverse credit history will be denied.

Federal Work Study Program - Eligible undergraduate and graduate students are assigned positions on campus and paid twice each month. Applicants must complete the FAFSA.

Federal Student Jobs Program - Available through Marshall’s Career Services Center. This program helps students find off-campus employment.

SATISFACTORY ACADEMIC PROGRESS STANDARDS FOR FINANCIAL AID ELIGIBILITY FOR UNDERGRADUATE STUDENTS

Federal regulations require that financial aid recipients meet standards of academic progress. The standards established by the Office of Student Financial Assistance, consistent with the federal student aid requirements, are stated below. These standards measure progress in a given program of study. They include quantitative (percentage of courses completed) and qualitative (grade point average in those courses completed) measures. Continued compliance with the standards for academic progress policy is measured annually.

These standards apply to continuing and transfer students. A student not meeting the standards below will be ineligible for financial aid support until such a time that (s)he meets the provisions of the satisfactory academic progress policy. After reestablishing satisfactory academic progress compliance or successfully appealing eligibility, the student may again receive, if otherwise eligible, federal financial aid.

Eligibility as an undergraduate or graduate will cease with completion of the first baccalaureate or masters degree. However, students seeking second baccalaureate or masters degrees may appeal for continued eligibility.

Enrollment adjustments any time after the beginning of a term, withdrawals (W and/or incompletes) will be counted in attempted hours. The attempted hours for purposes of this policy will include all hours, Marshall or transfer, that are reflected on the applicant’s academic transcript. Please review the specific policy for your student category listed below:

UNDERGRADUATE (FIRST) BACCALAUREATE DEGREE STUDENTS
COMMUNITY AND TECHNICAL COLLEGE STUDENTS
GRADUATE STUDENTS

If you do not meet policy Standards:
Students not meeting the standards of academic progress policy should obtain an appeal form from the Office of Student Financial Assistance. You may submit a written appeal based upon the following:
(A) The death of a relative of the student
(B) An injury or illness of the student
(C) Other special circumstances
Appeals should include appropriate documentation to support the basis of the appeal. All correspondence regarding appeals should be submitted to the Office of Student Financial Assistance. All appeals will be evaluated within five working days after submission.

If you are pursuing a second Baccalaureate or second Master’s Degree:
Students seeking financial aid for second degrees should establish an appointment with the Director of Financial Aid to discuss continued eligibility. Students should bring to their appointment a letter of appeal stating their academic objectives, time needed to complete the program and reason(s) for choosing to pursue a second degree.

Marshall University 1997-99 Undergraduate Catalog
Enrollment Management/29
UNDERGRADUATE (FIRST) BACCALAUREATE DEGREE STUDENTS

Students who have attempted 0-30 credit hours must have completed 50% of the credits registered for and have a cumulative grade point average of 1.60.

Students who have attempted 31-64 credit hours must have completed 67% of the credits registered for and have a cumulative grade point average of 1.70.

Students who have attempted 65-89 credit hours must have completed 75% of the credits registered for and have a cumulative grade point average of 1.80.

Students who have attempted 90+ credit hours must have completed 80% of the credits registered for and have a cumulative grade point average of 2.00.

An academic major must be declared no later than the 58th credit hour.

The above limits eligibility to 160 attempted credit hours based on a program maximum of 128 hours; however, eligibility may be extended to 150% of the program length. For instance, program length = 128 hours x 150% = 192 maximum hours, based upon individual applicant circumstances. Further information regarding extension of eligibility beyond 160 credit hours may be secured by contacting the Office of Student Financial Aid.

COMMUNITY AND TECHNICAL COLLEGE STUDENTS

Students who have attempted 0-30 credit hours must have completed 70% of the credits registered for and have a cumulative grade point average of 1.70.

Students who have attempted 30+ credit hours must have completed 80% of the credits registered for and have a cumulative grade point average of 2.00.

An academic major must be declared no later than the 26th credit hour.

All remedial course work must be completed within the first 30 attempted credit hours. The above limits eligibility to 85 attempted credit hours based on a program maximum of 68 credit hours. Eligibility, however, may be extended to 150% of the program length; for instance, program length = 68 hours x 150% = 102 maximum hours, based upon individual applicant circumstances. Further information regarding extension of eligibility beyond 85 credit hours may be secured by contacting the Office of Student Financial Aid.

GRADUATE STUDENTS

Students who have attempted 0-18 credit hours must have completed 80% of the credits registered for and have a cumulative grade point average of 2.50.

Students who have attempted 18+ credit hours must have completed 80% of the credits registered for and have a cumulative grade point average of 3.00.

A major must be declared at the time of admission into the graduate school.

The above limits eligibility to 54 attempted credit based hours based on a program maximum of 36 credit hours. Eligibility, however, may be extended to 150% of the program length; for instance, program length = 36 hours x 150% = 54 maximum hours based upon individual applicant circumstances. Further information regarding extension of eligibility may be secured by contacting the Office of Student Financial Aid.

For additional information about any of the above referenced programs, please contact the Office of Student Financial Assistance, Old Main Room 122. Telephone (304)696-3162 or 1-800-438 5390. FAX (304)696-3242.
E-Mail Address: sfa@marshall.edu

CENTER FOR ADULT AND EXTENDED EDUCATION

The Center for Adult and Extended Education (AEE) serves adult students (23 years of age or older) and those students who are located at distances from the main campus. The center sponsors evening administrative hours, courses via telecommunications, weekend and accelerated offerings, and off-campus instructional centers throughout the region.
Seeking to provide programs for students in associate and baccalaureate degree programs, AEE works with university academic departments to ensure the delivery of courses in time periods and locations that increase student access. One example is the Regents Bachelor of Arts (RBA) program that is limited to adult students. The RBA has a grade forgiveness policy and allows wide latitude in course selection. The RBA can provide credit for verifiable college learning. For more information see Regents BA in this publication or contact the RBA program office at 304-696-6400.

AEE is responsible for the delivery of televised courses to points throughout the region. Telecourses via public television (HEITV), satellite (SAT-NET), and interactive television (T-1) provide a variety of offerings with some full degree programs now available through television. For more information contact AEE's telecourse office at 304-696-2970.

AEE has initiated a program that allows eligible high school students to take fundamental college courses in their home school. Dual Credit courses provide students with the opportunity to get a jump on college courses prior to graduation from high school. Strict requirements are to be followed and students must have special permission. For more information contact AEE's Dual Credit office at 304-696-6649.

A series of off-campus centers has been developed to provide university services to remote locations. These include Mid-Ohio Valley Center (Point Pleasant), Southern Mountain Center (Logan, Williamson), Capitol Center (South Charleston), and Teays Valley Center (Winfield). Other centers are in development stages with a plan to cover the entire southern region of West Virginia. For information on off-campus centers or other AEE projects contact the main AEE office: Tel: 304-696-GRAD (4723); Toll-free 800-906-GRAD (4723); FAX 304-696-6419; e-mail aee@marshall.edu. The AEE World Wide Web site is located at http://www.marshall.edu/aee.
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 (effective July 1, 1997 West Virginia Graduate College became Marshall University Graduate College - MUGC). 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.

The Center, as of April 1997, has obtained over 3.1 million dollars in external contracts with participation of other MU departments and local businesses. The contracts and grants include efforts in software engineering, geographic information systems, environmental engineering, and development of the Environmental Management Incubator for area businesses.

The Environmental Center coordinates several degree programs:

- Since Fall 1994 the Center has coordinated the Huntington offering of MUGC's masters degree programs in Environmental Science and Environmental Engineering.
- As of Fall 1996, the Center coordinates admission and enrollment for a new masters degree program in Technology Management, which is a joint program with MUGC. Areas of Emphasis are available in Environmental Management, Manufacturing Systems Management, Information Technology Management (effective Fall 1997). Please see the Technology Management description in the graduate catalog for more details.
- A new MU undergraduate degree program in Environmental Science began in Spring 1997. Concentrations are available in Biology, Chemistry, and Geology. As of Spring 1997 concentrations in Environmental Economics and Modeling are in planning. The B.S. in Environmental Science is coordinated by a committee with representation from the Environmental Center, College of Science, Lewis College of Business, and School of Medicine. Please see the Environmental Science description in the undergraduate catalog for more details.

Feel free to contact the Environmental Center at (304) 696-5453 for further information.
ORIENTATION/ACADEMIC ADVISING

New Student Orientation Programs are conducted during the summer and immediately preceding the fall, spring, and summer terms to help freshmen, transfer students, and their parents learn more about Marshall and meet students, staff, faculty, and administrators. Faculty members, administrators, and peer advisors assist new students with academic advising and inform incoming students regarding university policies, regulations, and community life. A one-time only, non-refundable $40.00 fee is charged to all new students who attend the Orientation Program. Each new student should attend one of the orientation programs.

Academic advising policies vary according to each College. Those students who have not declared a major are enrolled in the College of Liberal Arts and are advised through the Academic Advising Center located in Old Main, Room 2-B.

For information on Orientation or academic advising, please write to New Student Orientation/Academic Advising, Marshall University, 400 Hal Greer Boulevard, Huntington, West Virginia 25755 or telephone 696-2354 (1-800-438-5392).

PLACEMENT CENTER

The Placement Services' staff provides a multitude of services for underclassmen, graduating seniors, Community and Technical College graduates, alumni, graduate students and professionals of Marshall University.

It is particularly important that students make full use of all available assistance, especially in these times when the search for career employment after graduation has become unusually competitive. By taking advantage of the Placement Services extensive resources and experience, students will greatly enhance their chances of securing satisfying employment. The services relating to employment skills or information needed in pursuit of employment include:

1. Part-time or Full-time Student Employment

Employers are increasingly impressed by graduates who have had work experience in addition to their academic training. This is particularly true if the work activity is related to career goals. In the employers' estimation, this prior exposure to work provides proof of genuine interest in the career field, more intense knowledge of the field, and reference sources. For this reason, the Placement Services' staff provides employment leads for jobs listed by area citizens and companies. Students may call at Placement Services to review the positions listed and apply if interested and qualified.

2. Summer Employment Assistance

The summer months present another opportunity for students to acquire work experience in addition to defraying college expenses. If students find it difficult to work while attending school, they will find it helpful to use their summers in productive employment. The Placement Staff can help with identification of summer job openings and preparation of resumes, application letters, and interviewing. The experience gained in professionally applying for jobs can, in itself, be invaluable for the postgraduation job search.

3. Special Career Programs

Each year the Placement Services' sponsors career-related events which permit students to meet personally with employers in their chosen career fields. Periodically Career Fairs are held in a variety of disciplines such as Business, Health, Social Service, Graduate and Professional School Day and Education. Employers are invited to the campus so students can informally discuss employment or career questions with them.

Another career offering is entitled the Extern Experience. This volunteer program permits students to identify a career field in which they have interest and then be assigned to an actual employer site within the Huntington area. Students spend from 15 to 25 hours with this employer on a no-salary basis to gain valuable insights into the job assignments and requirements, work environment, co-worker's salary ranges, and day to day activities of a particular career. Students can elect to be placed in more than one setting to help them make a valid choice. The sophomore and junior years seem to be the most appropriate time for career researching experiences such as the extern program.
4. **Career Planning**

One of the most essential decisions college students must make is choosing the right major field of study. The Placement Center has qualified staff officers and the very best in computerized guidance systems resources to assist students in this area. Career planning classes (8 weeks, 1 hr. credit) are also offered to students who wish to determine their career direction in a group setting rather than through personal conferences. Initial information can be obtained by calling 304-696-1785.

5. **Job Search Skills**

For graduates in many degree fields the degree simply gives a “ticket to the race.” Competition is inevitable in the search for many career positions. One of the very vital service areas of the Placement Services, therefore, involves instruction in conducting a self-inventory of skills and interests, writing a resume and letters of application, interviewing techniques, company information, addresses of employers, file preparation, and all related aspects of conducting a job search. The ability to present oneself convincingly is especially important.

6. **Job Assistance to Graduates (4 year and 2 year)**

A primary function of the Placement Services is to assist students in finding a suitable position after graduation. While campus recruiting has diminished somewhat in the last few years, approximately 125 organizations still visit the campus to interview graduating students in many fields. Besides arranging these personal interview opportunities, Placement Services also distributes a bi-weekly Employment Opportunities Bulletin that lists current job openings in human services, education, business and civil service. This bulletin is available for mailing to graduates for a nominal charge even after graduation so that job leads can continue to be received. A very practical knowledge of comparative salaries, fringe benefits, company policies and training can be gained from employment interviewing. Another vital need for graduates seeking career positions is the identification of addresses for contacting prospective employers. Placement Services is a prime source for this information on either a local, state, or national scale.

7. **Alumni Assistance**

Placement Services does not stop at graduation. In fact, all services available to undergraduates continue indefinitely after graduation. The kinds of assistance most commonly sought by alumni are requests for vacancy information and forwarding of personal employment screening data to prospective employers. Alumni are encouraged to seek assistance even if they did not register as Marshall students. Information on any program or service can be obtained by calling (304) 696-2371 or stopping at the Placement Services at 17th Street and 5th Avenue.

**STUDENT SUPPORT SERVICES**

The Student Support Services Program is a federally funded program which provides a wide range of academic and cultural enrichment programs to a special identified group of Marshall students. Services are provided which allow students to develop reading and learning skills and to improve study habits. A tutorial component is available to supplement classroom instruction and to help students better understand subject matter in most freshman and sophomore level courses. Counseling is also available to help students in academic planning, social development, and career decision making. For additional information, call 696-3164.
Financial Information
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 in the Marshall University Schedule of Courses, the University’s official Bulletin of Course Listings and Registration Instructions as published by the Office of the Registrar for each term of enrollment. Enrollments (registrations) not paid on or before the official due dates will be cancelled and the student will be subject to withdrawal from the university (see Withdrawal/Reinstatement Policy). Failure to receive an invoice will not be accepted as a reason for missing the payment deadline. Reregistration for enrollments not paid by the official due dates will be required when allowed and approved by the appropriate academic dean and the Office of the Registrar.

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 Office of Residence Services.

Students may pay fees by VISA/Mastercard and Discover by telephoning (800) 696-MILO or (304) 696-MILO. Credit card payments are also accepted at the Office of the Bursar, 101 Old Main.

Students who are recipients 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, must complete arrangements for payment through the Director of Student Financial Aid (Room 122, Old Main Building) and the University Bursar (Room 101, Old Main Building).

A student’s registration is not complete until all fees are paid.
A student’s registration will be cancelled when payment is made by a check which is dishonored by the bank. A charge of $15.00 will be made for each check returned unpaid by the bank.
A student who owes a financial obligation to the University will not be permitted to enroll in subsequent semesters until the obligation is paid.
Students who withdraw properly and regularly from the institution 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.

REFUND PROCEDURE

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 in the Marshall University Schedule of Courses Bulletin, enrollment fees (tuition fees) will be refunded to students for:

1. Classes officially dropped from the student’s course schedule that reduce the student’s total scheduled semester hours from full-time status to part-time status. Example: Undergraduate enrollment dropping of classes to adjust course schedule from 12 or more hours to less than 12 hours.
2. Classes officially dropped from the student’s course schedule when the enrollment is in a current part-time status that reduce the student’s total scheduled semester hours. Example: Undergraduate enrollments dropping classes to adjust course schedule from 11 hours to 10 hours, etc.
3. Official complete withdrawals from all classes from the student’s course schedule. Example: Undergraduate withdrawal from enrollment - 12 or more hours to 0 hours, 11 hours to 0 hours, 10 hours to 0 hours, etc.
4. Title IV Financial Aid first time enrollees who officially withdraw before or during their first period of enrollment shall have their refund calculated in accordance with the provisions contained in the 1992 amendments to the federal Higher Education Act.

At the conclusion of the Late Registration and Schedule Adjustment period, refunds will be processed only to students who completely withdraw from the semester or summer term.
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.

Residence Services

Request for withdrawal from Marshall University on-campus housing must be addressed in writing to the Department of Residence Services. Refunds, if applicable, will be based on the date cancellations are received. Fall cancellations must be received before July 1 and Spring or Summer cancellations must be received ten (10) business days or more prior to the official opening date of Housing, in order to receive deposits back. Voluntary withdrawal following these dates and prior to the opening of residence halls will result in a full refund less fifty dollars ($50.00) reservation deposit. Withdrawal 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 monies paid for room. A prorated refund will be processed for any unused portion of the Board plan. Students whose residency is terminated automatically forfeit all monies paid for that semester. 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—enrollment fee only will be processed in accordance with policy established by the Office of the Registrar.

Late fees are nonrefundable.

WITHDRAWAL/REINSTATEMENT FOR NONPAYMENT OF FEES AND OTHER FINANCIAL OBLIGATIONS

A. ENROLLMENT AND RESIDENCE HALL FEES

1. Through late registration each semester, a schedule of withdrawal for nonpayment will be included in the Marshall University Schedule of Courses. 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 students 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. In case of approval by the dean, 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. Students who do not meet their financial obligation for enrollment and residence hall fees will have all entries of that registration on the Registrar's permanent record erased.

7. A student who owes a financial obligation to the university will not be permitted to enroll in subsequent semesters 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.

Marshall University 1997-99 Undergraduate Catalog Financial Information/39
B. OTHER OBLIGATIONS

1. Failure to properly fulfill other types of financial obligations 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, the procedures outlined under A-3, A-4 and A-5 above will be followed.

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.

Financial Assistance Programs Available

Army ROTC Scholarships: Army ROTC scholarships are offered for four, three, and two years for the pursuit of undergraduate four-year degrees, and are awarded on a competitive basis to the most outstanding students who apply.

Four-year scholarships are awarded to students who will be entering college as freshmen. High school seniors should apply for the four-year scholarships by December first of their senior year. Three and two-year scholarships are awarded to students already enrolled in college and to Army enlisted personnel on active duty. Students who attend the Camp Challenge to enroll in the two-year program may compete for two-year scholarships while at camp.

Each scholarship pays full or partial tuition, required educational fees, and provides a specified amount for textbooks, supplies and equipment. Each scholarship also includes a tax-free subsistence allowance of $150.00 a month up to $1,500 for every year the scholarship is in effect. The total value of a scholarship will depend upon the tuition and other educational expenses.

Special consideration for an Army ROTC scholarship is given to students pursuing degrees in Nursing, Engineering, Physical Sciences, and other technical skills currently in demand by the Army. Students who receive a scholarship will be required to attain an undergraduate degree in the field in which the scholarship is awarded.

All cadets in the Advanced Course receive a subsistence allowance of $150.00 a month up to $1,500 for each of the two years (this is not in addition to the subsistence allowance provided to scholarship winners), as well as pay for attending the six-week Advanced Camp. Students attending the Camp Challenge will also receive pay.

The Department of Military Science also has other incentive scholarships to award. Contact the department for scholarship applications by calling 304-696-6450 or stop by 217 Gullickson Hall, Marshall University, Huntington, WV 25755.

Athletic Scholarships: Students wishing information regarding athletic grants-in-aid should write to Marshall University, Director of Athletics, P.O. Box 1360, Huntington, WV 25715. Normally such assistance is offered by the Financial Aid Advisory Council after recommendations are received from the Director of Athletics.

Financial assistance recipients who are eligible for refunds of fees paid to the University for tuition, fees, room and/or board will receive a refund only after the assistance disbursed to the student for the payment period has been recovered.

Should you have questions regarding these or other concerns with financial assistance, more specific information is available in the Student Handbook or from the Office of Student Financial Assistance, telephone 1-800-438-5390 (in-state only) or 1-304-696-3162.
**Academic Information**

**CATALOG TERMS AND DEFINITIONS**

Following are definitions of terms used in the academic sections of this catalog.

**DEGREE PROGRAM:** A degree program is a unified, complementary series of courses or learning experiences that lead to a degree.

**MAJOR:** A major is an area of concentration requiring at least 24 semester credits for completion. It is offered within one department or by a combination of two or more departments. A field of study within an approved degree program, having its own prescribed curriculum. A degree program may have more than one major.

**MINOR:** A minor is a program of study outside the major department requiring at least 12 semester credit hours for completion. With the exception of college approved interdisciplinary minors, all courses for a minor are offered within one department with no more than 3 credits at the 100 level.

**AREA OF EMPHASIS:** 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.

**CREDIT HOUR:** One lecture credit hour is given normally for each 15 classroom contact hours plus 30 hours of outside preparation or equivalent. One laboratory credit hour requires at least 30 hours of laboratory work per one lecture credit plus necessary outside preparation or equivalent. Laboratory experiences are complements to classroom courses that focus on the theory and principles of the discipline. They are organized activities involving the observation and verification of experiments and experimental techniques.

**PRACTICUM:** A practicum is a learning activity that involves the application of previously learned processes, theories, systems, etc. Generally credit is assigned on the same basis as that of a laboratory.

**FIELD EXPERIENCE:** Same as Practicum within the Department of Sociology/Anthropology.

**INDEPENDENT STUDY:** Independent Studies are tutorials, directed and independent readings, directed and independent research, problem reports, and other individualized activities designed to fit the needs of students within the major. Independent studies are offered at the discretion of the department chair and Dean.

**INTERNSHIP:** Internships are supervised, off-campus contractual work-study arrangements with external agencies or institutions.

**SEMINAR:** A seminar is a small group of students engaged in advanced study of the original research or some important recent advancements in the field. Seminars are organized under the direction of a faculty member, and credit is allowed according to university regulations for granting semester-hour credit.

**WORKSHOP:** Workshops are highly practical, participatory courses usually designed for advanced students or professionals. They provide experience or instruction in a new technique, theory or development in a given discipline. If credit is granted, appropriate university guidelines will be followed.

**SPECIAL TOPICS:** Special Topics are experimental courses that may be offered twice by a given department with no prior committee approval. Such courses may satisfy university, college or department requirements toward a given degree and may carry specific requisites. No more than 6 such credits may be applied toward an associate degree and no more than 12 toward a baccalaureate degree.

**DEVELOPMENTAL COURSES:** Developmental courses assist students in their attainment of selected basic cognitive, psychomotor, or affective skills. These courses may be given for credit but can not be used to satisfy Graduation Requirements. Credit/no credit grades are awarded in developmental courses.

**TRANSCRIPT:** A transcript is a copy of the student's permanent academic record. An official transcript can only be issued by the Office of the Registrar. See Transcript of Academic Records for additional information on the procedure for obtaining a transcript.
THE MARSHALL PLAN

A student receiving a baccalaureate degree at Marshall University is required to meet the specific demands of the major plus the following:

- One three hour writing intensive course beyond the six-hour requirement in English composition;
- Four hours of integrated science (ISC) course work within the science requirement of the college. Students in the College of Science, School of Nursing, and Dietetics Program are exempted from the ISC requirement.
- A minimum of three hours of mathematics above MTH 120 (excluding MTH 400 and MTH 401). All math courses for baccalaureate students now require at least a 19 on the ACT (430 on the re-centered SAT) for enrollment.
- Six hours of courses designated as international studies.
- Three hours of courses designated as multicultural studies.
- A capstone experience, as designated by the major department, to be completed by the end of the senior year.
- A computer literacy/competency requirement, designated by the major department or college, in addition to the experience with word processing used in English composition classes.

STUDENT SCHEDULING AND COURSE INFORMATION

Semester Hours

The semester hour is the basis of college credit within the institution. Normally one semester credit hour is given for each 15 classroom contact hours, which usually assumes approximately 30 hours of outside preparation or equivalent. In schedule preparation one semester hour usually represents the credit received for passing a subject scheduled one hour per week in a regular semester. Laboratory courses require the scheduling of two or three hours per week for each semester hour of credit.

Semester Load

To make normal progress toward graduation, the student should complete approximately 16 or 17 semester hours each semester or a proportionate amount during a summer term. Semester loads of 19 or more hours, or summer term loads of 7 or more hours may be taken with permission of the academic dean if not stipulated in a specific degree program.

Schedule Adjustment

Schedule adjustment is the adding or dropping of courses or the changing of class hour or day after a person has registered in any semester or term. The specific Schedule Adjustment Period for any semester or term is defined in the Schedule of Courses for that semester or term. After the conclusion of the defined Schedule Adjustment Period, students are not permitted to add classes or make changes in class hours or days, nor are late registrations permitted except with the permission of the student's academic dean. Dropping of classes after the Schedule Adjustment Period is defined under dropping of courses.

Full-Time Student

A student carrying at least 12 semester hours of undergraduate courses or a combination of 12 semester hours of undergraduate and graduate courses in a regular semester, or at least 4 semester hours in a five-week summer term.

Numbering of Courses

Courses numbered 000-099 are developmental courses and cannot be used to satisfy graduation requirements. Courses numbered 100-199 are primarily for freshmen. Courses numbered 200-299 are
primarily for sophomores. Courses numbered 300-499 are primarily for juniors and seniors. Courses numbered 500 and above are for graduate and medical students.

CLASSIFICATION OF STUDENTS

Students who have completed 90 hours or more of college work are classified as seniors.
Students who have completed at least 58 hours and less than 90 hours of college work are classified as juniors.
Students who have completed at least 26 hours and less than 58 hours of college work are classified as sophomores.
Students who have completed less than 26 hours of college work are classified as freshmen.

ACADEMIC ADVISING

Marshall University is committed to quality academic advising. Although students must accept ultimate responsibility for selection of a major and planning schedules, advising services are available to all students.

Advisors are assigned by the Dean's office. Students with a declared major are assigned a faculty advisor from the major department. Undecided students are advised in the Academic Advising Center located in Old Main B-2.

Some Colleges have mandatory academic advising. In Colleges with mandatory advising, an advising hold is placed on subsequent registrations until the student has met with the appropriate academic advisor. Consult the College Dean for specific advising requirements.

All students should interact with their academic advisors prior to registration each semester. Advisors provide assistance with schedules, provide academic guidance related to degree requirements, and monitor academic progress.

Students on academic probation are required to meet with the Dean or Associate Dean of their College for written approval to register.

ACADEMIC ADVISING CENTER

The Division of Enrollment Management maintains an Academic Advising Center located in Old Main, Room B-2. The Advising Center serves students who have not declared a major. Undecided students in Colleges with mandatory advising should report to the Academic Advising Center for assistance and removal of advising holds.

DROPPING COURSES OR COMPLETELY WITHDRAWING FROM THE UNIVERSITY

1. Dropping of Courses
   Dropping a course after the schedule adjustment period requires that a drop form bearing the instructor's signature be submitted to the Registrar's Office. Students on academic probation must have Dean's approval to drop a course.

   Off-campus or night courses may be dropped by mailing a request to drop to the Registrar's Office. The postmark on such a request will be the official date of withdrawal.

2. High Demand Course Withdrawal Policy
   Any student who withdraws during the "W" period from a course identified as a "high demand" course shall not be allowed to pre-register for the course for the following semester. High demand courses include ENG 101, ENG 102, ACC 215, SPN 101, SPN 102, MTH 130, BSC 227, CSD 119, and CSD 120.

3. Withdrawal from the University
   Withdrawal from the University is defined as dropping all classes for which a student is registered.

   Withdrawal requires that a withdrawal form be submitted to the Registrar's office or that a request for withdrawal be mailed to the Registrar's Office.

   The effective date of withdrawal is the date that the withdrawal form is submitted to the Registrar's Office. The postmark on mail requests will be the official date of withdrawal.
4. Grades Assigned in Case of Dropping Courses or Withdrawal from the University

In all cases of dropping courses or withdrawal from the university the instructors will report grades as follows:

A. A student dropping courses or withdrawing from the University on or before 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 "W" period ends the Friday immediately following the two-thirds point in the course. Exact "W" dates are identified in the annual University Academic Calendar.

B. A "W" grade (withdraw) will have no bearing on the student's grade point average.

C. Students who drop courses without approval, or who do not follow regulations provided in the preceding paragraphs, receive a grade of "F" at the end of the Semester or summer term.

5. Final Date for Dropping or Withdrawing

The final date for dropping an individual class is the tenth Friday in a regular term. The last date for complete withdrawal from the University is the last day of classes. In both cases, "W" grades are assigned.

6. Military Service

Men and women called to active duty in the armed services of the United States shall be 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, shall be granted if the call comes thereafter; provided, however, that credit as described above will be granted only in those courses in which the student is maintaining a passing mark at the time of departure to military service. The term "called to active duty" is herein 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 thereof which involves a particular student or an individual who is a bonafide 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 to be shown on the student's permanent record.

MANDATORY WITHDRAWAL FOR MEDICAL REASONS

A student will be subject to a mandatory medical withdrawal if it is determined by the Dean of Student Affairs and/or designee that the student is endangering himself or herself or other members of the university community by his/her continued membership in the university community.

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 said student behavior or health habits warrant it.

The student shall be referred to the appropriate health physician and a written document of evaluation and recommendations will be requested and forwarded to the university designee. The university will then act upon the evaluation and recommendations with regard to the student's continuation at Marshall University.

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 mandatory withdrawal.

In the event that the student declines the opportunity for such an evaluation, a withdrawal for medical reasons may be unilaterally effected by the university.

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.

COURSE SYLLABI POLICY

During the first two weeks of semester classes (3 days of summer term), the instructor must provide each student a copy of the course requirements which includes the following items: 1) attendance policy, 2) grading policy, 3) approximate dates for major projects and exams, and 4) a description of the general course content.
This policy may not apply to the following types of courses: thesis, seminar, problem report, independent study, field work, internships and medical clerkships. Adopted by University Council, March 12, 1980; amended by Academic Planning and Standards Committee, April 10, 1980; approved by the President, May 5, 1980.

CLASS ATTENDANCE POLICY

It is the responsibility of each individual instructor to evaluate the importance of student class attendance. Accordingly, each instructor prepares at the beginning of each semester a written statement setting forth his/her policy for consideration of unexcused absences, make-up examination, and related matters, which will be in force for the semester. This statement is filed with the chairman of the department and a statement of policy on attendance appropriate to each class is read at the first class meeting.

Absences such as those resulting from illness, death in the family, or institutional activities (those approved by the academic deans, such as debate, artistic performances and athletics) are to be excused when a student reports and verifies them to the instructor. For such excused absences, the student should not be penalized.

AUDITING COURSES

Audit students are those who enroll only for purposes of refreshing or acquainting themselves with the material offered in the course. Audit students receive no academic credit. Auditing is allowed only when there is space available in the class and the instructor authorizes audit status. Enrollment for audit is limited to the regular registration period for the semester or term. Students who want to audit classes must enroll and pay fees in the same manner and at the same tuition rate as students enrolling for credit. Faculty members wanting to audit courses must secure approval of the instructor of the course or courses desired and must enroll in the regular manner.

Attendance and other requirements for auditors shall be determined by the instructor of the course being audited. It is the prerogative of the instructor to notify the respective dean and the Registrar's Office to withdraw the auditor from the class if attendance or other requirements are not met. It is the responsibility of the instructor to discuss the requirements of the course with the auditor.

It is not possible to 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.

CREDIT/NO CREDIT OPTION

A student may elect to present a maximum of 18 semester hours of credit on a credit/no credit basis towards fulfillment of requirements of a baccalaureate degree. Credit completed through the College Level Examination Program (CLEP) does not count as a part of the 18-hour limit under the CR/NC option. The decision to take a course on a credit/no credit basis must be made during registration and may not be changed after the end of the schedule adjustment period. Courses taken on this basis must be in areas other than the student's major or teaching specialization.

Some departments and colleges have special regulations regarding CR/NC. The student is advised to consult with the department chairman or the dean of the college prior to registration for CR/NC.

Courses completed under the CR/NC option are not reflected in the student's grade point average. A course attempted under the option for which a grade of NC is received may be repeated under the option or for a letter grade.

A letter grade of C or better must be achieved to receive a CR grade. For the letter grades of D and F, an NC grade will be recorded. All withdrawals under CR/NC option will receive a "W" grade.

D & F REPEAT REGULATIONS

If a student earns a grade of "D" or "F" in 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 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.

Marshall University policy stipulates that only by repeating this course for a letter grade and by
no other means, including CLEP examination or courses taken under the CR/NC Option, can the
original grade be disregarded.

Institutional officials shall make clear to students the fact that this regulation pertains only to
graduation requirements and not to such requirements for professional certification which may be
within the province of licensure boards, external agencies, or the West Virginia Board of Education.

Nothing in this policy shall interfere with provisions of Board of Trustees Policy Bulletin No.

Adopted: February 8, 1972; Revised: December 14, 1985
West Virginia Board of Regents Policy Bulletin No. 20
Board of Trustees policy effective July 1, 1989

ACADEMIC FORGIVENESS POLICY
Amended and approved at December 9, 1986, APSC meeting

The academic forgiveness policy allows academic forgiveness of D and F grades for purposes of
calculating the grade-point average (GPA) required for graduation. This policy is designed to assist
students who previously left college with low grades and will be implemented, provided certain con­
tions are satisfied, where the D and F repeat rule is not applicable.

The student wishing forgiveness must not have been enrolled on a full-time basis or on a 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 re­
ceived prior to the five-year, non-enrollment period may 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 will remain on the student's per­
manent record.

This policy pertains only to the calculation of the GPA required for graduation and does not
pertain 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. The Board of Regents Bachelor of Arts
Program is governed by a different forgiveness policy.

To implement this policy, the student must submit a written request to the Dean of the College
in which the student plans to earn a degree or certificate. This request must identify the non-enroll­
ment period and the courses and grades which the student wishes to be deleted from the GPA cal­
culation. The Dean can accept, modify, or reject the student's request and will provide the student with
the justification for modification or rejection upon request.

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 anew whenever the student changes program, depart­
ment, college or institution.

CREDIT BY EXAMINATION

Credit by examination is granted at Marshall University in many academic departments. Informa­
tion can be obtained by contacting the chairperson in a particular department.

DEAN'S LIST

Students registering for 12 or more hours of courses for which they are receiving letter grades,
and who at the end of a semester have a grade average of "B" or above are considered honors students.
A list of such students constitutes "The Dean's List" of the undergraduate college of enrollment.

Marshall University 1997-99 Undergraduate Catalog Academic Information/47
HONOR STUDENTS IN GRADUATE COURSES

On recommendation by the Department Chairperson and with the approval of the undergradu­
ate Dean and the Dean of the Graduate School, Marshall University seniors with superior academic
undergraduate records may be permitted to enroll in graduate courses. Students with an overall GPA
of 3.0 or better who have attained senior status have standing eligihilny to take courses at the gradu­
ate level (500 or 600 series) upon application. Complete applications must be on file in the Graduate
School Office and permission secured prior to the opening of the term of enrollment. Credit for
graduate courses completed as a senior can be applied to either an undergraduate or a graduate degree
at Marshall University but not to both. Grades received in graduate courses taken by undergraduate
students for undergraduate credit will be included in the computation of the student's undergraduate
GPA.

INTER-COLLEGE TRANSFER

All decisions regarding a student's transfer to another college within the University are con­
trolled by the student and the Dean of the college to which the student proposes to transfer.
Individuals who are returning to the University from one or more years of active military duty
are eligible to enter the college of their choice.

PUBLIC SERVICE INTERNSHIP

The Public Service Internship Program was developed by the Board of Trustees to place quali­
fied students in state government agencies for an off-campus learning period of one semester. Stu­
dents 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 enrollees of Junior or Senior rank. They also must have the ap­
proval of their department chairperson and the University selection committee. Final placement is
made by the state program coordinator. For their participation in the program students receive 12
hours of academic credit and an educational stipend. Academic credit for the program is offered in
the following three courses:

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

These courses will carry the sponsoring department's designator. The student's major depart­
ment will determine how the credit is to be allocated in order to meet departmental requirements.
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 prior to the one in which they wish
to participate.

CONTINUING EDUCATION

Marshall University, through the Office of Continuing Education in the Community and Tech­
111ical College, offers a non-collegiate credit “Continuing Education Unit” program designed to give
recognition to persons continuing their education through certain types of short courses, seminars,
conferences, and workshops. The program is designed for industry, business, educational, civic, pro­
fessional, and other groups.
One Continuing Education Unit is defined as: ten contact-hours of participation in an orga­
nized continuing educational experience under responsible sponsorship, capable direction and quali­
fied instruction.
Continuing Education Units may be awarded as whole units or as whole units plus tenths of
units. Awards may be made for less than ten contact-hours of work.

48IAcademic Information Marshall University 1997-99 Undergraduate Catalog
Continuing Education Units are appropriately awarded for only non-credit work and cannot
legitimately be considered for conversion to college credits; nor can college credits be legitimately
converted to CEU's.
A separate permanent record will be maintained by the university of all CEUs earned.
For further information, please contact the Director of Continuing Education, Marshall Uni-
versity Community and Technical College, 696-3113.

ACADEMIC COMMON MARKET
Out-of-State Programs at Reduced Tuition

West Virginia provides for its residents who wish to pursue academic programs not available
within the State through the Academic Common Market and through contract programs. Both
programs provide for West Virginians to enter out-of-state institutions at reduced tuition rates. Con-
tact programs have been established for study in veterinary medicine, optometry, architecture, and
podiatry; the Academic Common Market provides access to both baccalaureate and graduate pro-
gress not otherwise available in West Virginia. The programs are restricted to West Virginia resi-
dents who have been accepted for admission to one of the specific programs at designated out-of-state
institutions. Further information may be obtained through the Office of Academic Affairs, Old Main
110, or the Board of Trustees.

ACADEMIC PUBLICATIONS OF THE UNIVERSITY

The University issues eight bulletins annually: the Undergraduate Catalog, the Catalog of the
Graduate School, the School of Medicine Bulletin, the Admission Bulletin for Prospective Students,
the Catalog of the Community and Technical College and the Schedule of Courses for Fall, Spring
and Summer. Other special publications are issued from time to time.

GRADE INFORMATION AND REGULATIONS

GRADES AND QUALITY POINTS

The following system of grades and quality points is used within the institution:
A. For superior performance. Four quality points are earned for each semester hour with a
grade of A.
B. For performance distinctly above the average in quality. Three quality points are earned for
each semester hour with a grade of B.
C. For performance that is average quality. Two quality points are earned for each semester
hour with a grade of C.
D. For performance of below-average quality. One quality point is earned for each semester
hour with a grade of D.
E. Failure, given for unsatisfactory work. Zero quality points.
W. Withdrawn on or before the tenth Friday after the first class day of the regular semester
or the Friday after the two-thirds point in the summer sessions. “W” grades are assigned for
complete withdrawals.
I. An I grade (Incomplete) is given to students who do not complete course requirements
because of illness or for some other valid reason. The I grade is not considered in determin-
ing the quality point average. The student has the responsibility of completing the work
within the period defined by the instructor, not to exceed twelve calendar months from
date of receipt of the incomplete. If the work is completed satisfactorily, one of the four
passing marks will be awarded. If the work is unsatisfactory or the student fails to complete
the work within the twelve-month period, an F or failing grade will be recorded. If the
student originally enrolled in the course under the Credit/No Credit Option, the removal
will be under the same option in certain previously approved situations. An incomplete
grade may be removed by repeating the course within the twelve-month period. All grades
remain on the student’s permanent record as originally submitted by the course instructor.
Any grade change is added to the permanent record.

CR/NC. Recorded as CR (for satisfactory performance) or NC (for unsatisfactory performance) for courses elected by the student for the credit/non-credit option or for courses designated by the department chairperson for credit/no credit grading. CR and NC are not considered in determining the quality point average.

GRADE POINT AVERAGE DEFINED

A grade point average is a numeric value calculated by dividing total quality points by total credit hours attempted. Quality points are based on the following values for EACH semester hour of credit: “A” = 4; “B” = 3; “C” = 2; “D” = 1; and “F” = 0. The grade point average computed for graduation purposes (not necessarily each semester) shall be based on all work for which the student has registered with the following exceptions:

a. Courses with grades of “W”, “I”, and “CR/NC.”

b. Courses in remedial and/or developmental education.

c. Courses taken on an audit basis.

d. Courses which have been repeated under the “D and F Repeat Provisions.”

An overall grade point average is a calculation based on credit earned both at Marshall AND all other accredited institutions of higher learning. A Marshall grade point average is a calculation based on credit earned at Marshall ONLY.

READMISSION OF INELIGIBLE STUDENTS

Students who have been declared ineligible to attend either the fall or spring semester may attend summer term to improve their academic standing. After the student has reduced the quality point deficiency to fewer than 20 or by the number stipulated by his or her college, he or she may petition for readmission and enrollment in the fall or spring semester. If the student’s academic standing does not improve, he or she will be subject to dismissal from the university.

Any student who enters another college or university following academic dismissal from Marshall University and thereafter seeks readmission to Marshall is classified as a transfer student and is governed by the regulations applying to transfer students.

ABSENCES FROM EXAMINATIONS

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 control of the student the grade of I is reported, and the student may, upon application, take the examination at a later date. (See “Incomplete” under Grades and Quality Points)

DEAD WEEK

The last five class days of the fall and spring semesters shall be designated as DEAD WEEK. Examinations that are designated as 15% or more of the final course grade may not be given during this period. Major papers and/or projects defined as 15% or more of the final course grade may be assigned during this period only if stipulated in the official course syllabus which is to be distributed at the beginning of the semester. Night classes, laboratories, freshmen English composition courses, and any classes meeting once a week shall be exempt from the requirements. New material and make-up examinations may be introduced or conducted during the DEAD WEEK. DEAD WEEK is not intended to be incorporated in the Intersession or Summer Session of the University.

REPORTING OF FINAL GRADES

Grades of the current semester or summer term and the cumulative quality point average are mailed to the student as soon as possible following each semester or term of enrollment by the Office of Academic Information.
of the Registrar. Grades are usually available on the University's voice response system (MILO) within 24 hours of the deadline for submission of final grades each term.

TRANSCRIPTS OF ACADEMIC RECORD

Every student is entitled to one free official transcript of his or her record. Each additional copy costs $5.00. Transcript requests are normally processed within 24 hours of receipt. A longer period is required for processing if the request is received at the close of a semester or summer term.

Students who default in the payment of any University financial obligation or have other obligations to the University forfeit their right to claim a transcript until all such obligations are resolved.

Transcript requests are to be sent directly to the Office of the Registrar and may be in the form of a letter, fax, or on the Transcript Request Form available in the office. Requests must be signed by the student.

GRADUATION INFORMATION

This is the general information for the University. See the specific section for the college in which you are enrolled for possible additional graduation requirements.

OFFICIAL GRADUATION DATES

Marshall University observes one Commencement Exercise and four graduation dates during an academic year. The official graduation dates are: the last day of the first 5 week summer term; the last day of the second 5 week summer term; the last day of final examinations for the fall semester; and the day of Commencement for the spring semester. Students that 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 identified above. Students graduating at the end of either summer term or at the end of the fall term of an academic year are invited to participate with the spring graduates in the Commencement Exercises.

APPLICATION FOR GRADUATION

It is the responsibility of every student to apply for graduation at the beginning of the semester or term in which they intend to complete graduation requirements. The specific application for your college may be obtained from the office of your Academic Dean. It is a requirement of the University that a receipt showing payment of the graduation fee accompany your completed application for graduation. The deadline for applying for graduation for every semester or term in the academic year is listed in the current Schedule of Courses.

GRADE-POINT AVERAGE REQUIRED FOR GRADUATION

Candidates for graduation must have:

1. An overall grade point average of 2.00 or higher.
2. A Marshall grade point average of 2.00 or higher.
3. An overall grade point average of 2.00 or higher in their major area of study.

Colleges and specific programs may have unique requirements that are more stringent than stated above. All candidates for graduation must meet the specific requirements for the degree they are seeking. It is the student's responsibility to keep informed on quality point standing and degree and/or certificate requirements. This information can be obtained from the Dean of the college in which the student is registered.

Marshall University 1997-99 Undergraduate Catalog
MINIMUM RESIDENCE REQUIREMENTS FOR GRADUATION

For all undergraduate degrees (except the Regents Bachelor of Arts Degree and Community and Technical College Associate Degree) at least one year's work in residence is required, one semester of which must be in the senior year. A "year in residence" must represent not less than two semesters work in residence or one semester and two summer terms with not less than 24 hours credit. For students transferring into Marshall University, at least 12 hours of 300/400 level course work must be taken in the college of residence, and at least 15 hours must be taken in the major field at Marshall University. (Except Combined College and Professional Programs.)

Students in the College of Education and Human Services must meet the college residency requirements and the prevailing requirements for teacher certification. All students are to refer to individual colleges for any additional residency requirements.

For all Community and Technical College Associate Degree and Certificate programs, at least 12 hours credit must be earned in residence. These 12 hours must be for regular coursework (excluding Non-Collegiate Learning), must be taken for letter grades (excluding CR/NC), and must be applicable to the degree program.

For Community and Technical College students, “in residence” means on-campus or at one of the formal off-campus instruction sites.

GRADUATION WITH HONORS

Baccalaureate Degree Candidates who have achieved special distinction in academic work are recognized at Commencement and by having printed on their diploma their honor status as determined by the following scale for final cumulative grade point average:

<table>
<thead>
<tr>
<th>Honors</th>
<th>GPA Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summa cum laude</td>
<td>3.85 and above</td>
</tr>
<tr>
<td>Magna cum laude</td>
<td>3.60 to 3.84</td>
</tr>
<tr>
<td>Cum laude</td>
<td>3.30 to 3.59</td>
</tr>
</tbody>
</table>

NOTE: Honor calculations are not rounded.

To be eligible for graduation with honors:

A transfer student from a two-year college within the state system must have earned at least 56 hours of work at Marshall University (all work to be included in determining graduation with honors).

A transfer student from a four-year institution within the state system must have earned a minimum of 36 hours of work at Marshall University (all work to be included in determining graduation with honors).

All other transfer students must have earned at least 64 hours of work at Marshall University, at least 50 percent of which must be upper division level work, and graduation with honors must be achieved both on the work taken at Marshall University and all academic work attempted at the collegiate level regardless of the institution attended.

Associate Degree Candidates for graduation who have achieved special distinction in academic work are recognized at Commencement and by having printed on their diplomas their honor status as determined by the following scale for final cumulative GPA:

<table>
<thead>
<tr>
<th>Honors</th>
<th>GPA Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>With High Honors</td>
<td>3.70 and above</td>
</tr>
<tr>
<td>With Honors</td>
<td>3.30 to 3.69</td>
</tr>
</tbody>
</table>

NOTE: Honor calculations are not rounded.

To be eligible to graduate with honors:

A transfer student must have earned at least 36 hours of work at Marshall University.

All college-credit work completed by a student at Marshall University or at any other institution within the state system is included in determining graduation with honors.

All transfer students desiring to graduate with honors must have earned at least 32 hours of work
at Marshall University 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.

CATALOG OF RECORD

The catalog of record is the catalog that identifies the graduation requirements that must be met by a particular student in pursuit of a specific degree. The catalog of record is that academic catalog that is in effect at the time the student declares the degree program (major) in which they intend to graduate.

Candidates for bachelor’s degrees who initially enter Marshall University within 10 years of their date of graduation may graduate by meeting requirements in effect at the time of their entrance provided that they have never altered their original degree objective. When the time between entrance and graduation is greater than 10 years, the student must meet the graduation requirements in effect on the date of graduation. For courses no longer offered, substitutions may be made by permission of the Academic Dean. Education majors are to refer to the Residency Requirements in the College of Education and Human Services section of this catalog.

QUALIFYING EXAMINATION IN ENGLISH COMPOSITION (EQE)

To encourage an acceptable standard of written English, the University requires for graduation a grade of C or better in English 102 or 201 H; students who do not meet this requirement must pass a qualifying examination in English composition. Students enrolled in Associate Degree programs who receive A, B, or C in Com 122 Business Communications II, Com 132 Technical Communications II, or Com 112 Communications II, will be excused from the EQE. Students who receive a D in these courses will take the EQE.

The examination is given six times each year: twice during each regular semester and once each summer term. Students in four-year programs take the examination at the first opportunity after they have reached junior classification (58 hours credit, including the required courses in composition). Students in associate degree (two-year) programs are eligible to take the examination in their second year, after they have passed six hours of freshman English/Communications (excluding Communications 094 or Communications 095). Passing the examination is also a requirement for admission to student teaching.

International students from countries whose national language is not English and students who receive A, B, or C in English 102 or 201 H are excused. Students receiving credit for English 102 as a result of passing the CLEP Subject Examination in Freshman English after September 1, 1976 are excused. For all others in the undergraduate colleges, passing the examination is a requirement for graduation.

The date of the student’s passing, or a notation of being excused, is entered on the student’s permanent record. Those who do not pass the examination are required to attend the noncredit English Composition Clinic in the next half-semester before they retake it. The examination may be taken as many times as necessary.

ADDITIONAL BACHELOR’S DEGREE

A person may receive more than one Baccalaureate Degree by completing all of the major and minor requirements for the desired subsequent degree. A minimum of 30 additional hours will be required after receipt of the previous Baccalaureate degree. Grade point averages and graduation with honors must conform to existing University policies. Two or more Baccalaureate Degrees may not be awarded simultaneously.

ADDITIONAL ASSOCIATE OF APPLIED SCIENCE DEGREE MAJOR

A person may receive an Associate of Applied Science Degree with more than one major by completing all of the requirements for the desired additional major(s). A minimum of 18 hours per major will be required in addition to the receipt of the previous Associate Degree major(s).
POLICY REGARDING THE TRANSFERABILITY OF CREDITS AND GRADES AT THE UNDERGRADUATE LEVEL

(Board of Trustees Series No. 17)

It is the policy of the Board of Trustees that the transfer of credits among the institutions in the system will be complete, consistent with appropriate and legitimate academic program(s) integrity:

To this end, the following policy guidelines are hereby promulgated:

1. Undergraduate level credits and grades earned at any public institution governed by the Board of Trustees shall generally be transferable to any other such institution.

2. At least 64 and no more than 72 hours of credits and grades completed at community colleges or branch colleges in the West Virginia state system of higher education shall be transferable to any baccalaureate degree-granting institution in the state system.

3. All grades earned for college credit work within the state system shall be counted for purposes of graduation with honors, and transfer students from within the state system shall be treated the same for this purpose as generic students.

4. With the exception of those enrolling in specialized four-year programs which have demonstrable and bona fide externally imposed requirements making such a goal impossible, students completing two-year associate degrees at public institutions governed by the Board of Trustees 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 nontransfer 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 Board of Trustees' 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
DEGREE PROGRAMS OFFERED AT MARSHALL UNIVERSITY

*Areas of Emphasis are indented beneath the degree program

<table>
<thead>
<tr>
<th>Associate Degrees and Certificates of Proficiency</th>
<th>College</th>
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</thead>
<tbody>
<tr>
<td>Automotive Technology</td>
<td>AAS Community and Technical</td>
</tr>
<tr>
<td>Aviation Technology</td>
<td>AAS Community and Technical</td>
</tr>
<tr>
<td>Banking and Finance</td>
<td>AAS Community and Technical</td>
</tr>
<tr>
<td>Computer Technology</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Applied Systems Technology</td>
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<tr>
<td>Internet Technology</td>
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<tr>
<td>Electronics Technology</td>
<td>AAS Community and Technical</td>
</tr>
<tr>
<td>Emergency Medical Technology</td>
<td>CP Community and Technical</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Design/Computer Aided Manufacturing</td>
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<tr>
<td>Production and Inventory Management</td>
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<tr>
<td>Health Information Technology</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Legal Assistant</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Management Technology</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Business Management</td>
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<td>Industrial Management</td>
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<td>Real Estate Management</td>
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<td>Retail Management</td>
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<tr>
<td>Medical Lab Tech</td>
<td>AS Science</td>
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<tr>
<td>Nursing</td>
<td>ASN Nursing</td>
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<td>Occupational Development</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Office Technology</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Administrative Secretarial</td>
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<td>Information Processing</td>
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<td>Legal Secretarial</td>
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<tr>
<td>Medical Secretarial</td>
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<tr>
<td>Physical Therapist Assistant</td>
<td>AAS Community and Technical</td>
</tr>
<tr>
<td>Police Science</td>
<td>AAS Community and Technical</td>
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<tr>
<td>Radiologic Technology</td>
<td>AAS Community and Technical</td>
</tr>
</tbody>
</table>

| Baccalaureate Degrees                             |                                 |
| Accounting                                       | BBA Business                    |
| Basic Humanities                                 | BA Liberal Arts                 |
| Classical Studies                                |                                 |
| Philosophy                                       |                                 |
| Religious Studies                                |                                 |
| Biological Science                               | BS Science                     |
| Biology                                          |                                 |
| Botany                                           |                                 |
| Environmental Biology                            |                                 |
| Forestry                                         |                                 |
| Zoology                                          |                                 |
| Microbiology                                     |                                 |
| Physical/Molecular Biology                       |                                 |
| Pre-Med                                          |                                 |
| Pre-Dentistry                                    |                                 |
| Pre-Pharmacy                                     |                                 |
| Pre-Veterinary                                   |                                 |
| Classical Language: Latin                        |                                 |
| Chemistry                                        |                                 |
| Pre-Med                                          |                                 |
| Pre-Veterinary                                   |                                 |
| Pre-Med                                          |                                 |

Marshall University 1997-99 Undergraduate Catalog
<table>
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<th>Program</th>
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<td>Theory and Composition</td>
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56/Academic Information

Marshall University 1997-99 Undergraduate Catalog
<table>
<thead>
<tr>
<th>Program</th>
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**REGENTS BACHELOR OF ARTS DEGREE**

Marshall University Regents Bachelor of Arts Degree Program (RBA) is a nontraditional program designed for the adult student. It is different from the usual baccalaureate degree plan in many respects. College credit counting toward the degree requirements may be awarded to students in the program for documented learning resulting from work or life experience. While the program is designed to ensure the Regents B.A. Degree student a sound educational foundation, rigid specialization requirements are not imposed. Each applicant creates with the assistance of an advisor the course program that best fits individual needs.

The central principle that underlies the life experience assessment process is that WHAT the student knows is more important than how it was learned. If a student can demonstrate knowledge and skills reasonably comparable to what the college trained student knows, credit hours may be awarded toward the RBA Degree. The student must provide evidence of possessing college equivalent knowledge or skills. The term "life experience" is a partial misnomer since credit is not given for simply any kind of adult life experience, but only for those experiences that produce learning and skills comparable to the outcomes of courses of training at post-secondary levels. There will be a $200.00 fee for the faculty evaluation of this experience, regardless of the number of credit hours awarded.
Admissions Criteria

Where applicable, the general admission requirements and procedures as stated in the undergraduate catalog are to be followed by persons entering the Regents B.A. Degree Program. Because the program is designed for responsible adults, however, the following additional regulations apply:

1. Admission is open only to those who have graduated from high school at least four years ago. For those passing a high school equivalency test, admission must be at least four years after their class graduated from high school.
2. Marshall students may be admitted to the Regents program with the permission of the Coordinator and the dean or chairman of the program in which they are currently enrolled.
3. No student may be simultaneously enrolled in the Regents program and another baccalaureate program. A student with an accredited baccalaureate degree will not be admitted to the program.
4. After disregarding F's earned more than four years before application to the Regents program, at least a 2.0 grade point average is required for admission.

Graduation Requirements:
Total Credit Hours: 128
General Education Hours: 36
Upper Division Hours: 40 (300-400 level courses or equivalent)
Grade Point Average: 2.00
Residence: 24 classroom credit hours earned at any of the schools in West Virginia's public higher education system

Transfer Credits: In transferring credits from accredited institutions of higher learning to the Regents B.A. Degree Program, all passing grades are accepted; however, only 72 hours from a community college can be applied toward the degree. Transfer credits will be assessed for purposes of meeting General Education requirements, the Upper Division Hour requirement, and course prerequisites.

Rules Relating to Fs: All Fs received four years or more before admission to the program are disregarded. This policy pertains only to the calculation of the GPA required for admission to the program and graduation. It does not pertain to GPA calculated for special academic recognition, such as graduating with honors.

Grades and Grading: Grading will follow Marshall's current requirements.
Honors Credit: Students can substitute an Honors course for General Education Requirements. Those interested in doing so should confer with the coordinator or the Director of Honors.

General Education Requirements .................................................................................................... 36

The student is required to complete the minimum number of credit hours as indicated in each category below:

I. Communications (6 hours minimum)
   English 101, 102 or 302, or 201H
   Communication Studies 103, or 305, 207
   Communication 221, 231

II. Humanities (6 hours minimum)
   Religious Studies - Any courses
   Classical Studies - Any courses
   English - Any literature courses
   Modern Languages - Any courses
   Fine Arts 101
   Art 112 or any art history courses
   Music 142, 250, or any music history courses
   Philosophy - Any courses except 304 Theatre 112
   Theatre 112

III. Natural Sciences (6 hours)
   Chemistry - Any courses
Physics - Any courses
Geology - Any courses
Geography 101, 317, 320, 425, 429, 430
Biological Science - Any courses

IV. Social Sciences (6 hours)
Economics - Any courses
Geography - Any courses except those listed above
History - Any courses
Political Science - Any courses
Psychology - Any courses
Sociology - Any courses
Anthropology - Any courses

V. Mathematical Sciences or Computer Applications (3 hours)
Computer Science and Software Development - Any courses
Computer Technology - Any Courses
Mathematics (MTH or MAT) - 110 or above

In addition, 9 elective hours must also be selected from the General Education categories. The student must satisfy any necessary prerequisites before advanced courses may be counted toward the General Education requirement.

The Program Coordinator assists Regents B.A. Degree students in completion of admission documents, course enrollment, assessment for work and life experiences, and other factors, and will provide application forms and other information to prospective students.

For additional information contact:
Regents B.A. Degree Program
Marshall University
Huntington, West Virginia 25755-2050
or call (304) 696-6400

GRADE APPEAL POLICY, ACADEMIC PROBATION, INELIGIBILITY FOR SCHOLASTIC DEFICIENCIES, AND ACADEMIC DISHONESTY

Marshall University’s policies in regard to the academic rights and responsibilities of students are in keeping with the Board of Trustees Series 60, which is reproduced in its entirety following this section. The Academic Rights and Responsibilities of Students policy statement provides details with respect to student rights and procedures on these and similar matters relating to academic appeals. Consult the most recent Student Handbook for the latest appeal procedure.

Marshall University
Academic Rights and Responsibilities of Students

This policy statement implementing Board of Trustees Series 60 (July 11, 1986) supersedes previous policies which concern grade appeals, academic dishonesty, and any other procedures relating to academic appeals.

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 Series 60 of the West Virginia Board of Trustees. 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 course work 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 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. quality point average, special program requirements, professional standards, etc.

C. Academic Dishonesty: any act of a dishonorable nature which gives the student engaged in it an unfair advantage over others engaged in the same or similar course of study and which, if known to the classroom instructor in such course of study, would be prohibited. This shall include, but is not limited to, the following: securing or giving unfair assistance during examinations or required work of any type; the improper use of books, notes, or other sources of information; submitting as one's own work or creation any oral, graphic, or written material wholly or in part created by another; securing all, or any part of assignments or examinations, in advance of their submission to the class by the instructor; altering of any grade or other academic record; and any other type of misconduct or activity which manifests dishonesty or unfairness in academic work. Each classroom instructor may modify the general definition of academic dishonesty to fit the immediate academic needs of a particular class, provided the instructor defines, in writing, the details of any such departure from the general definition.

Academic dishonesty also includes conspiring with or knowingly helping or encouraging a student to engage in academic dishonesty.

D. Day: shall refer to a calendar 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: Vice President for Academic Affairs.

I. 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 course work 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 Board of Trustees and with the fundamentals of due process; and
4. probation, suspension, and dismissal standards and requirements.

I. Normally, a student has the right to finish a program of study according to the requirements under which he/she was admitted to the program. Requirements, however, are subject to change at any time, provided that reasonable notice is given to any student affected by the change.

IV. Academic Sanctions
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:
   a. Undergraduate Students
      Any student who has less than a 2.0 grade point average on course work attempted at Marshall University and/or any approved course work transferred from another institution shall be placed on academic probation. Normally, the student will be permitted to enroll in no more than thirteen (13) hours. In addition, a student placed on academic probation shall abide by such further conditions or restrictions imposed upon him/her pursuant to policies promulgated by the college or school in which he/she is enrolled as provided in Section III, H of this policy.
   b. Graduate Students
      Graduate students should consult the appropriate Graduate School publications for the description of this sanction.
   c. Medical Students
      Medical School students should consult the appropriate Medical School publications for the description of this sanction.

2. For Academic Dishonesty
   In those cases in which a student has been found guilty of academic dishonesty he/she may be placed on academic probation for a period of time not to exceed one academic year. During this period the student is given an opportunity to prove that he/she can become a responsible and positive member of the University community. Conditions and restrictions for probation may be imposed, as deemed appropriate, including but not limited to:
   a. Exclusion from representation of the University in any extracurricular activities such as intercollegiate athletics, debate teams, university theater, band, etc.; however, the student may participate in informal activities of a recreational nature sponsored by the University.
   b. Self-Improvement: A program of self-development will be planned in conjunction with a faculty or staff person assigned in a counseling/guidance capacity.
   c. Surrender of Student Activity Privileges: Upon request, the Student Activity Fee Privilege is to be voided by the Vice President for Academic Affairs and all rights and privileges pertaining thereto forfeited for a specified period of time not to exceed one academic year.
C. Academic Suspension

1. For Academic Deficiency
   a. Undergraduate Students: A student who has a deficit of twenty (20) or more quality points and who does not receive better than a 2.0 average on all work attempted during the semester in which the student last enrolled may be suspended and may not enroll during the next regular academic semester. Individual colleges and schools may impose additional suspension requirements pursuant to policies promulgated in accordance with Section III, H of this policy.
   b. Graduate Students: Graduate students should consult college and program publications for a description of the conditions under which academic suspension may be imposed for academic deficiency.
   c. Medical Students: Medical School students should consult Medical School publications for a description of the conditions under which academic suspension may be imposed for academic deficiency.

2. For Academic Dishonesty
   In those cases in which a student has been found guilty of academic dishonesty he/she may be academically suspended for a period of time not to exceed one academic year. 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. A student violating any term of academic suspension while on suspension will be subject to further academic suspension up to, and including, academic dismissal from the University.

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 may also be imposed for violation of the University policy on academic dishonesty.

V. Academic Appeals
   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.

A. Student Appeals for Instructor-Imposed Sanctions: The intent of the appeals process is to treat all parties fairly, and to make all parties aware of the appeals procedure. In those cases in which a student has received an instructor-imposed sanction, the student shall follow the procedures outlined below:

1. Undergraduate Students
   a. 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. If the instructor is unavailable for any reason, the process starts with the department chairperson.
   b. If the procedure in Step 1 (a) does not have a mutually satisfactory result, the student may appeal in writing to the department chairperson within ten (10) days after the action taken in Step 1 (a), who will attempt to resolve the issue at the departmental level. When a student appeals a final grade, the faculty member must provide all criteria used for determining grades.
   c. 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 (b). The Dean will attempt to achieve a mutually satisfactory resolution. The Dean of the college in which the student is enrolled will be notified.
   d. Should the issue not be resolved by the Dean, either the student or instructor may appeal in writing within ten (10) days of the action taken in Step 3 (c) to...
the Chairperson of the Budget and Academic Policy Committee who shall refer
the matter to the University Academic Appeals Board for resolution. The hear­
ing panel has the right to seek additional documentation if necessary.
e. 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 Vice
President for Academic Affairs within thirty (30) days from receipt of the deci­
sion of the Board. The decision of the Vice President shall be final.

2. Graduate Students
Graduate students who desire to appeal an instructor-imposed sanction should con­
sult the appropriate Graduate School publication for the proper procedures to fol­
low.

3. Medical School Students
Medical School students who desire to appeal an instructor-imposed sanction should
consult the appropriate Medical School publications for the proper procedures to
follow.

B. Appeals for Academic Dishonesty:
Primary responsibility for the sanctioning for academic dishonesty shall lie with the
individual instructor in whose class or course the offense occurred; however, charges of
academic dishonesty may be filed by any member of the University community. Sanctions for academic dishonesty may range from an instructor-imposed sanction, pursuant
to Section IV, A herein, to dismissal from the institution.

1. In those cases where the instructor imposes a sanction pursuant to Section IV, A
only, and does not refer the matter to the department chairperson for additional
sanctions, the student may appeal the sanction in accordance with the procedures
described in Section V, A.

2. Where the offense is particularly flagrant or other aggravating circumstances are
present, such as a repeat violation, the instructor may refer the matter to the de­
partment chairperson for additional sanctions as permitted by this policy. In addi­
tion, any member of the University community may refer a case of academic
dishonesty to the chairperson of the department in which the course involved is
being offered. Allegations of academic dishonesty must be referred to the depart­
ment chairperson within thirty (30) days from the date of the alleged offense. This
process starts with the Dean if there is no department chairperson.

In those cases where the matter is referred to the department chairperson the
following procedures are applicable:

a. The department chairperson shall bring together the student involved, and the
faculty member, and/or other complainant within ten (10) days from the date of
referral. A written admission of guilt at this level may be resolved with a maxi­
imum penalty of “F” in the course.

b. If the student denies guilt or disagrees with the sanction imposed, or if the faculty
member, other complainant, or chairperson feels that the penalties in Step V(a)
are insufficient for the act complained of, the case shall be forwarded in writing
by the chairperson to the student’s academic Dean within ten (10) days from the
date of the meeting. The academic Dean shall bring together the student, faculty
member or other complainant, and the department chairperson to review the
charges within ten (10) days from the date of referral. The academic Dean may
impose any sanction permitted by Section IV of this policy.

c. Should the student, faculty member, or other complainant be dissatisfied with
the determination of the academic Dean, the case may be appealed in writing
within ten (10) days of the Dean’s written decision to the Chairperson of the
Budget and Academic Policy Committee, who shall refer the case to the Univer­
sity Academic Appeals Board for resolution.

d. Should the student, faculty member, or other complainant be dissatisfied with
the determination of the Academic Appeals Board, then he/she may file an ap­
peal with the Vice President for Academic Affairs within thirty (30) days from
the receipt of the written decision of the Board. The decision of the Vice Presi­
dent 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 judgement to the Vice President for Academic Affairs within thirty (30) days after receipt of written notice of the judgment.
   d. The decision of the 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 has 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 appeal the judgement to the Vice President for Academic Affairs within thirty (30) days after receipt of written notice of the judgment.
   d. The decision of the Vice President for Academic Affairs is final.

3. Graduate Students

In those cases in which a Graduate student has been or may be placed on academic
probation, or academic suspension, or has been dismissed from Graduate School for academic deficiencies, he/she should consult the appropriate Graduate School publications for the proper procedure to follow.

4. Medical Students
In those cases in which a Medical student has been or may be placed on academic probation, or academic suspension, or has been or may be dismissed from Medical School for academic deficiencies, he/she should consult the appropriate Medical School publications for the proper procedures to be followed.

VI. Undergraduate Academic Appeals Board

A. Description and Jurisdiction:
The Undergraduate Academic Appeals Board is a permanent subcommittee of the Budget and Academic Policy Committee. It is established to hear all appeals arising from the following:
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 by the Budget and Academic Policy Committee.

B. Composition of the Board:
The Academic Appeals Board 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 three (3) faculty members from his/her unit to serve on the Board. Such appointments shall be made annually in the Fall semester.
2. Student Members:
The President of Student Government shall appoint two (2) students from each of the constituent colleges and schools of the University. All student members of the Board must be in good academic, financial, and disciplinary standing with the University and must have been enrolled for at least two (2) semesters at Marshall. If, for any reason, the President of the Student Government fails or is unable to appoint student members from any constituent college or school, then the Dean of that constituent unit may appoint such student members.
3. Hearing Officers:
The Budget and Academic Policy Committee shall appoint the Hearing Officer and two (2) alternates. The Hearing Officer and alternates must have previously served on the Board.

C. Selection of Members for an Individual Hearing:
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 by the Chairperson of the Budget and Academic Policy Committee or his/her designee. In appeals arising from dismissal from an academic program, at least two (2) of the faculty and student members of the panel must be chosen from Board members appointed from the constituent college or school involved.

VII. 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 are 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. Attorneys are not permitted to appear on behalf of any appellant or appellee.

D. Prior to the scheduled hearing, the members of the Board may convene in closed session to examine the content of the appeal, the specific issues to be considered, and all supporting documents. The student with his/her advisor if any, will be called before the Board and the Hearing Officer will then restate the nature of the appeal and the issues to be decided.

E. 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 will be prohibited from appearing as a witness at the discretion of the Hearing Officer.

F. 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 Board shall make a determination based on the evidence presented. If excluded, the person may be readmitted on the assurance of good behavior.

G. Any person who refuses the Board's order to leave the hearing room may be subject to appropriate disciplinary action pursuant to Marshall University policy. When a student is ejected for disruptive behavior and does not have a recognized representative, the hearing officer will appoint one.

H. Except as provided in G and K herein, all evidence must be presented in the presence of the student.

I. The student or other parties involved may petition the Hearing Officer for a subpoena or a request for appropriate written information or documents.

J. 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.

K. The Board may admit as evidence any testimony, written documents, or demonstrative evidence which it believes is relevant to a fair determination of the issues. Formal rules of evidence shall not be applicable in academic appeal hearings.

L. If the 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 Board, or if the student appellant or the appellee leaves before the conclusion of the hearing without permission of the Board, the hearing may continue and the Board may make a determination on the evidence presented at the hearing, or the Board may, at its discretion, dismiss the appeal.

M. Upon completion of the testimony and presentation of evidence, all persons, except Board members will be required to leave the room. The Board will then meet in closed session to review the evidence presented. The Board shall make its findings based upon a preponderance of evidence. The Board 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 Vice President for Academic Affairs. If the Board'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 Vice President for Academic Affairs by any Hearing Officer.

N. The findings of the Board, 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 in the form of summary minutes and relevant attachments and will be provided to the student upon request.

O. The student, or any other person, may not tape the proceedings.

P. In an appeal related to a final grade the appeals board will complete the change of grade forms and submit that information to the Registrar, the faculty member, and the appropriate Academic Dean.

Q. Within thirty (30) days following receipt of the Board's decision, the student may file an appeal with the Vice President for Academic Affairs who shall review the facts of the case and take such action as deemed appropriate under all the circumstances. The Board's findings and sanction, if any, may be affirmed, modified, or remanded to the original Hearing Board for further action as deemed appropriate by the Vice President for Academic Affairs. A written brief stating grounds for the appeal should be presented by the student to the Vice President of Academic Affairs with the appeal. 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 Board.
4. Misinterpretation of University policies and regulations by the Board.
5. A sanction disproportionate to the offense.

R. The decision of the Vice President for Academic Affairs is final. The student, the faculty member, the appropriate Academic Dean, and the Registrar shall be notified in writing of the Vice President for Academic Affairs' decision.

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

POLICY REGARDING ACADEMIC RIGHTS AND RESPONSIBILITIES OF STUDENTS

Following is Series 60, adopted by the West Virginia Board of Regents, July 11, 1986. The University of West Virginia Board of Trustees assumed jurisdiction of the West Virginia Board of Regents July 1, 1989.

PROCEDURAL RULE WEST VIRGINIA BOARD OF TRUSTEES

SERIES 60
STUDENT ACADEMIC RIGHTS

Section 1. General
1.1. Scope. - Policy regarding academic rights and responsibilities of students.
1.2. Authority. - WV Code Section 18-26-8
1.3. Filing Date. - May 17, 1986
1.4. Effective Date. - July 11, 1986
1.5. Revises and replaces existing Section 7 of Series 57, and Series 60 dated November 13, 1984.

Section 2. Academic rights and responsibilities of students.
2.1. The institution and its constituent colleges and schools shall define and promulgate, consistent with the Policies, Rules and Regulations of the Board of Trustees, the academic requirements for admission to the institution, for admission to limited enrollment programs and for admission to professional and graduate degree programs (where offered); the criteria for maintenance of satisfactory academic process, for the successful completion of the program, for the award of a degree or certification, for graduation; the requirements or criteria for any other academic endeavor; and the requirements for student honesty and originality of expression.

2.2. A student, by voluntarily accepting admission to the institution or enrolling in a class or course of study offered by the institution, accepts the academic requirements and criteria of
the institution. It is the student's responsibility to fulfill course work and degree or certificate requirements and to know and meet criteria for satisfactory academic progress and completion of the program.

Section 3. Academic rights.

3.1. Concomitant with the academic standards and responsibilities established pursuant to Section 3 of these rules, each student shall have the following academic rights.

3.1.1. The student shall be graded or have his/her performance evaluated solely upon performance in the course work as measured against academic standards. The student shall not be evaluated prejudicially, capriciously, or arbitrarily. The student shall not be graded nor shall his/her performance be evaluated on the basis of his/her race, color, creed, sex, or national origin.

3.1.2. Each student shall have the right to have any academic penalty, as set out in Section 4.2 of these rules below and more specifically defined by his/her instructor, reviewed.

3.1.3. Each student shall have access to a copy of the college or university catalog or program brochure in which current academic program requirements are described (e.g., required courses, total credit requirements, time in residence requirements, minimum grade point average, probation standards, professional standards, etc.). Students have the right to receive from the instructor written descriptions of content and requirements for any course in which they are enrolled (e.g., attendance expectations, special requirements, laboratory requirements including time, field trips and costs, grading standards and procedures, professional standards, etc.).

3.1.4. The instructor of each course is responsible for assigning grades to students enrolled in the course, consistent with the academic rights set out in the preceding sections.

Section 4. Application of policy to students.

4.1. Student — any person who has been admitted to an institution to pursue a course of study, research, or service, who is currently engaged in an institutionally sponsored activity, and who has some right or privilege to be on the campus or in the facilities of the institution, or to use the same, in connection with study, research, or service, or who yet has some right or privilege to receive some benefit or recognition or certification from the institution, under the Rules, Regulations, or Policies of the Board of Trustees or the institution.

4.2. A student, as defined in this policy, shall be subject to any applicable penalties for failure to comply with the academic requirements and standards promulgated by the institution and/or its constituent colleges and schools according to Section 2.1 of these rules. Students are expected to adhere to these academic standards in all academic settings, classrooms, laboratories, clinics and any other activities which are part of academic requirements.

Section 5. Academic requirements and consequences of failure to meet requirements.

5.1. The institution and its constituent colleges and schools shall define and promulgate the academic requirements, criteria and standards as set out in Section 2.1 of these rules above. Normally, students may finish a program of study according to the requirements under which they were admitted to the program. However, requirements are subject to change at any time, with reasonable notice provided to the students.

5.2. A student who fails to meet the academic requirements or standards, including those for academic honesty as defined by the institution and its constituent colleges and schools according to Section 2.1 of these rules, may be subject to one or more of the following penalties:

5.2.1. A lower grade or failure of the course or exclusion from further participation in the class (including laboratories or clinical experiences), all of which may be imposed by the instructor.

5.2.2. Academic probation as determined and defined by the institution and its constituent colleges and schools.

5.2.3. Academic suspension as determined and defined by the institution and its constituent colleges and schools.

5.3. Academic dismissal 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
A student may appeal any penalty according to the procedures in Section 6 of these rules below. Each institution and its constituent colleges and schools shall determine and specify the point at which penalties, excluding those specified in Section 6.3.1 of these rules, may be imposed. Each instructor determines the point at which the penalties specified in Section 6.3.1 of these rules may be imposed. Each institution and its constituent colleges and schools shall determine the method(s), if any, by which a student may correct the condition(s) leading to imposition of these penalties and thereby have them removed.

Section 6. Appeals.

6.1. Each institution and its constituent colleges and schools shall establish policies and procedures by which a student may appeal or challenge any academic penalties imposed by a faculty member or the institution or one of its constituent colleges and schools, including those described in Section 5.2 of these rules above.

6.2. Additional procedures may include but not be limited to:
   6.2.1. Appeals of a grade penalty or exclusion from class;
   6.2.2. Appeals of final course grades;
   6.2.3. Appeals of imposition of academic probation;
   6.2.4. Appeals of imposition of academic suspension;
   6.2.5. Appeals of dismissal from undergraduate programs;
   6.2.6. Appeals of dismissal from graduate programs;
   6.2.7. Appeals of dismissal from professional degree programs; and
   6.2.8. Appeals of dismissal from the institution.

6.3. Policies and procedures relating to appeals of academic penalties shall be governed by due process and shall include, as a minimum:
   6.3.1. Written notice to the student (1) of his/her failure to meet or maintain an academic standard, (2) of the methods, if any, by which the student may correct the failure, and (3) of the penalty which may be imposed.
   6.3.2. An opportunity for the student to meet with the faculty member(s) or other individual(s) who have judged his/her performance to be deficient, to discuss with these faculty member(s) or other individual(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 institution. 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 individual or committee conducting the appeal.
   6.3.3. An opportunity for the student to appeal the decision or judgment of faculty members through the established institutional appeals procedure within thirty (30) calendar days after written notice of the decision or judgment.
   6.3.4. An opportunity to appeal to the President of the institution or his/her designee within thirty (30) calendar days after receipt of written notice of the decision or judgment.
   6.3.5. The decision of the President or his/her designee regarding an academic appeal is final.

Section 7. Appeals procedures for academic dismissal.

7.1. The appeal will be subject to the following conditions:
   7.1.1. The appeal must be filed within thirty (30) calendar days after written notice of the decision.
   7.1.2. The appeal to the appropriate academic officer or appeals committee is not adversarial in nature; the formal rules of evidence do not apply.
   7.1.3. The student may be advised by a person of his/her choice from the institution; likewise, the faculty member, academic officer, or committee recommending academic dismissal may have an advisor from the institution. 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 individual or committee conducting the appeal.

7.1.4. Witnesses may be called by any of the parties involved.
7.1.5. A record of the appeal shall be prepared in the form of summary minutes and relevant attachments and will be provided to the student upon request.
7.1.6. The decision of the President or his/her designee regarding academic dismissal is final.

Section 8. Publication.
8.1. All standards, criteria and procedures of the institution shall be published in one or more appropriate institutional publications such as catalogs, student handbooks, academic pamphlets, and handouts. Such requirements are subject to change with reasonable notice provided to the students.
Academic Excellence
Center for Academic Excellence

UNIVERSITY HONORS PROGRAM

Purpose

The Marshall University Honors Program was established in the early 1960s to provide maximum educational opportunities for students of high ability. Honors students are encouraged to raise their expectations of themselves by pursuing enriched courses both within and beyond the regular curriculum. The program supports intellectual excellence and creativity by bringing together outstanding students and stimulating professors. The Honors Program is housed in the Center for Academic Excellence, Old Main 230.

Admission Requirements

Students may begin Honors work at any stage in their college career, although many begin as freshmen. Entering freshmen with an ACT composite of 26 (or SAT equivalent), and a 3.3 GPA, may enroll in any Honors course. Transfer students or already enrolled students with a minimum 3.3 GPA can enroll in any Honors course.

The Program

The Honors Program consists of three separate but interconnected components:

1. Entering freshmen should register for HON 101: Introduction to Honors. This is an enriched, Honors section of the New Student Seminars for freshmen. This one credit course meets for the first eight weeks of the semester. It offers Honors students a chance to meet others like themselves, to become familiar with the Honors Program, and to learn through small group discussion about college life and about planning their academic future.

2. Each semester University Honors provides several team-taught, small, interdisciplinary seminars for freshmen and upperclass students. Led by two professors from different disciplines, the 4 credit seminars enable students to study in depth a special topic outside and beyond the regular curriculum. Past seminars have covered such areas as War in the Twentieth Century, Primatology and Human Evolution, America in the Sixties, and Plagues and Epidemics. Seminar titles appear in the official schedule of courses which is published each semester.

3. In addition to University Honors seminars, individual departments offer Honors-enriched versions of regular courses. While the prerequisites for department Honors courses vary, they normally require at a 3.0 GPA. The prerequisites for these courses are stated in each department’s course listing in the Marshall University Undergraduate Catalog.

HON 150: Critical Issues
HON 195: Science and the Arts
HON 196: American Experience
HON 197: Ideas in Social Science
HON 294: Interdisciplinary Honors
HON 295: Interdisciplinary Honors
HON 296: Interdisciplinary Honors
HON 395-396: Interdisciplinary Honors
HON 480-483: Interdisciplinary Honors

NOTE: Students can use Honors Seminar credits to fulfill department major or college general education requirements. See the Executive Director, CAE (Old Main 230), for instructions and forms.
ACC 250H: Principles of Accounting-Honors  
CHM 190-191H: Honors in Chemistry  
CHM 290-291H: Honors in Chemistry  
CHM 390-391H: Honors in Chemistry  
CMM 104H: Honors in Speech Communication  
ECN 250H: Principles of Microeconomics Honors  
ECN 253H: Principles of Macroeconomics Honors  
ENG 201H: English Composition Honors  
FIN 323H: Principles of Beginning Finance Honors  
HST 103H: The Twentieth Century World-Honors  
HST 230H: American History to 1877-Honors  
HST 231H: American History Since 1877-Honors  
MGT 320H: Principles of Management-Honors  
MKT 340H: Principles of Marketing-Honors  
PHL 200H: Introduction to Philosophy: Ancient Period-Honors  
PSY 201H: General Psychology-Honors  
SOS 106H: Twentieth Century World Honors  
SOS 208H: Social Problems in a Global Context - Honors

NOTE: Many departments also offer individualized programs of study for Honors credit called Readings for Honors.

Graduation in University Honors

Students who wish to become Honors Scholars in the University Honors Program must maintain a cumulative 3.3 GPA in all courses and a cumulative 3.3 GPA in Honors courses. In addition to their college and department major requirements, they must complete 24 semester hours of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>HON 101</td>
<td>Introduction to Honors</td>
<td>1 hr.</td>
</tr>
<tr>
<td>HON 150</td>
<td>Critical Issues</td>
<td>choose 1</td>
</tr>
<tr>
<td>HON 195</td>
<td>Science and the Arts</td>
<td>4 hrs.</td>
</tr>
<tr>
<td>HON 196</td>
<td>The American Experience</td>
<td></td>
</tr>
<tr>
<td>HON 197</td>
<td>Ideas in Social Science</td>
<td></td>
</tr>
<tr>
<td>HON 294</td>
<td>Ideas in Social Science</td>
<td></td>
</tr>
<tr>
<td>HON 295</td>
<td>Ideas in Science</td>
<td></td>
</tr>
<tr>
<td>HON 296</td>
<td>Ideas in the Humanities</td>
<td></td>
</tr>
<tr>
<td>HON 395</td>
<td>Interdisciplinary Honors</td>
<td>choose 2</td>
</tr>
<tr>
<td>HON 396</td>
<td>Interdisciplinary Honors</td>
<td>8 hrs</td>
</tr>
<tr>
<td>HON 480</td>
<td>Interdisciplinary Honors</td>
<td></td>
</tr>
<tr>
<td>HON 481</td>
<td>Interdisciplinary Honors</td>
<td></td>
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</tbody>
</table>

any combination of Department Honors Courses, Readings for Honors, or H-Option Courses (see below).  

11 hrs.  
TOTAL: 24 hrs.

The Honors Option allows an Honors student [3.3 GPA] enrolled in a regular course to make it an Honors course and to receive Honors credit. The student and instructor, in advance of the semester in which the course is offered, arrange to do a part of the work of the course as Honors caliber. H-option instructions and forms are available in the CAE (OM 230).

Recognition:

1. The official transcript will state that the University Honors Program has been successfully completed.
2. The diploma will note graduation in University Honors.

Marshall University 1997-99 Undergraduate Catalog  
Academic Excellence/73
JOHN MARSHALL SCHOLARS

Scholarship

Students accepted each year as John Marshall Scholars will receive for four years (as long as they maintain a 3.5 GPA), tuition, fees, and a stipend.

Admission Requirements

Students with ACT composites of 30 or higher and who are admitted by February 1, and who have submitted a Financial Aid Institutional Application, will be invited to apply. Recipients are selected by the Financial Aid Advisory Council. Priority is given to residents of West Virginia, Lawrence and Gallia Counties, Ohio, and Boyd, Greenup, Carter, and Lawrence Counties, Kentucky.

Program

The academic program consists of an introductory seminar, a core of interdisciplinary seminars, and course requirements of the student's major department and college.

Core Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HON 101</td>
<td>Introduction to Honors</td>
<td>1 hr.</td>
</tr>
<tr>
<td>HON 150</td>
<td>Critical Issues</td>
<td>Choose 1</td>
</tr>
<tr>
<td>HON 195</td>
<td>Science and the Arts</td>
<td>4 hrs.</td>
</tr>
<tr>
<td>HON 196</td>
<td>American Experience</td>
<td></td>
</tr>
<tr>
<td>HON 197</td>
<td>Ideas in Social Science</td>
<td>4 hrs.</td>
</tr>
<tr>
<td>HON 294</td>
<td>Ideas in Social Science</td>
<td></td>
</tr>
<tr>
<td>HON 295</td>
<td>Ideas in Science</td>
<td></td>
</tr>
<tr>
<td>HON 296</td>
<td>Ideas in the Humanities</td>
<td></td>
</tr>
<tr>
<td>HON 395-396</td>
<td>Interdisciplinary Honors</td>
<td>Choose 1</td>
</tr>
<tr>
<td>HON 480-483</td>
<td>Interdisciplinary Honors</td>
<td>4 hrs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TOTAL 9 hrs.</td>
</tr>
</tbody>
</table>

Advising

The Executive Director, CAE will work closely with John Marshall Scholars, aiding each student in the development of an academic program, and providing group programming and special services.

SOCIETY OF YEAGER SCHOLARS

The Marshall University Society of Yeager Scholars is named for United States Air Force Brigadier General (Retired) Charles E. "Chuck" Yeager, the first man to break the "sound barrier" in his historic 1947 flight of the Bell-X-1 aircraft. The purpose of the Society of Yeager Scholars is to provide an outstanding education for outstanding students. The Society desires to provide the Scholars with opportunities to expand intellectual abilities, to develop leadership potential, to become effective communicators, and to gain the skills and knowledge necessary for successful careers.

The men and women accepted into the Society each year will receive tuition, fees, textbooks, one-half of room and board, and education-related travel expenses.

Academic Program

The academic program provided the Yeager Scholars consists of a number of elements:

1. A core of four interdisciplinary seminars, one each semester for the first two years. The
CORE CURRICULUM

Seminars:

There are four interdisciplinary seminars, one each semester of the first two years of study, each carries five credit hours for a total of 20 hours.
- YGS 161 Seminar in Communication and Computers
- YGS 162 Seminar in Humanities, Texts, and Values
- YGS 271 Seminar in Theories of the Natural and Social Sciences and Statistics
- YGS 272 Seminar in Arts and History

Language Study:

Yeager Scholars will be expected to develop a proficiency in a foreign language in preparation for travel and study abroad. The purpose of the language program, therefore, is to ensure that they achieve a level of competence in a foreign language high enough for them to communicate effectively and to succeed in classes at a foreign university.

For those Scholars who have completed at least two years of high school foreign language instruction, and who wish to continue study in that language, a maximum of 12 hours will be required. For those Scholars who have no foreign language experience, or who decide to start another language, a maximum of 18 hours will be required.

Literature:

Two three credit-hour classes for a total of 6 credit hours.
Each Yeager Scholar will take two literature courses to be selected with the approval of the Director or mentor. Courses will be chosen for the depth and breadth they will provide the individual student's education. They may be selected to extend a student's previous work or to fill gaps in the student's background. Not all literature courses currently offered may be used to fulfill this requirement. Permission must be obtained from the Chair of the Yeager Steering Committee.

Social Sciences:

Six credit hours chosen from the following:
1. History or culture course. The requirement for a history of culture course can be met by taking courses in the Department of History or by taking French 405, 406, Spanish 405, 406, German 405-406, or Classics 435, 436.
2. One course from the following:
   - Communication Studies 303, 308, 409
   - Economics
   - Political Science
   - Psychology (201H or another)
   - Sociology-Anthropology (except SOC 108)
   - Geography 100, 203
   - Math 131, 140, 203*

* A Mathematics course may be required by the college in which the Yeager Scholar is a major.
Natural Sciences:

Eight to ten credit hours chosen from the following:
- Biological Sciences
- Geology
- Chemistry
- Physics

The core curriculum will total 58-66 credit-hours. Some of the hours in Literature, Social and Natural Sciences may also apply to the student’s major.

Advising

The Director of the Society of Yeager Scholars will work closely with a mentor/advisor from each Scholar’s major field in developing the program of study for each Scholar. Both the Director and the mentor/advisor must approve each Scholar’s schedule and program of study.
Elizabeth McDowell Lewis College of Business

MISSION AND VISION STATEMENT

The mission of the Elizabeth McDowell Lewis College of Business is to be the leading state institution for the education of business students in the region. The college's principal focus will be undergraduate education and is committed to graduating individuals who possess the communication, critical thinking and problem solving skills necessary to meet current needs and the changing demands of a global economy.

The Marshall University Elizabeth McDowell Lewis College of Business will be recognized as an exceptional educational value and as a major participant in the region's economic growth.

GOALS

The goals of the Elizabeth McDowell Lewis 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 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.

II. Students
   1. Encourage increased international exchange of students to widen student perspectives.
   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 non-traditional students and employers to create 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.
   5. Recruit more aggressively, students in West Virginia and surrounding states to maintain the student base necessary to ensure viability of COB programs.

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 marketplace.

GOALS FOR OUTREACH AND ECONOMIC DEVELOPMENT

1. Conduct applied research and programs which are a direct benefit to the economy of Southern West Virginia and the Tri-State area.
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.

ORGANIZATION

The College of Business is organized into four components:
1. The Division of Accountancy and Legal Environment
2. The Division of Finance and Economics
3. The Division of Management and Marketing
4. The Department of Military Science

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 Concentration
   c. Finance
   d. Management
      Health Care Management Concentration
      Operations Management Concentration
   e. Management Information Systems
   f. Marketing
      Business Logistics Concentration
2. Master of Business Administration: a complete description of the MBA program is given in the catalog of the graduate school.

SPECIAL OFFERINGS

1. Evening classes are offered on a regularly scheduled basis.
2. Off-campus courses, workshops, and seminars are offered by special arrangement.
3. Honors classes are periodically offered by each of the divisions and within each major.
4. A cooperative education/internship program is offered by the college and area businesses.
5. Credits earned through the College Level Examination Program (CLEP) are accepted.
7. Some courses are available through distance learning at various locations throughout the state via interactive television.

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 and have no more than 19 quality deficit points 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.

Marshall University 1997-99 Undergraduate Catalog
PREBUSINESS

Incoming freshmen are admitted to Marshall University under the Prebusiness curriculum, a two-year curriculum designed to show step by step the courses students need to complete to adequately prepare them for their last two years of advanced business study. Following the successful completion of these requirements (shown below), students must apply for full admission to a major in the College of Business. Transfer students also are admitted under the Prebusiness curriculum until they have met all Prebusiness requirements. If transfer students have met all these requirements prior to entering the College of Business, they can apply for full admission to a major. Prebusiness students must complete the following requirements while paying particular attention to prerequisites:

- MTH 203
- ACC 215 (C or better required for Accounting majors only)
- ACC 216 (C or better required for Accounting majors only)
- ECN 250
- ECN 253
- ENG 101
- ENG 102 (C or better required to graduate)
- CMM 207
- LE 207
- MGT 218

GPA in these 10 courses must be at least a 2.0. An overall GPA of 2.0 with a minimum of 58 hours completed is required for full admission to a major.

Computer Literacy Requirement: (This can be met by taking classes or a three-part exam. Acceptable course substitutions at Marshall University are either (a) CT 106: Spreadsheets; and CT 107: Internet; and CT 107: Word Processing; or (b) CSD 101.

MAINTENANCE OF ACADEMIC PROGRESS

To continue in the College of Business, students are expected to make progress towards graduation. Progress is to be defined as completion of graduation requirements as described below. Students who have accumulated 1 to 19 quality deficit points in any GPA area (major, College of Business courses, Marshall coursework and overall coursework) are classified “on probation.” Quality deficit points are received whenever the GPA falls below 2.0. Probation students must be advised prior to registration. At that time, probation students must sign contracts with the dean’s office each semester until all quality deficit points are removed. It is the goal of the dean’s office to remove the probation status as quickly as possible through strategies such as D/F repeats when applicable. Once all quality deficit points are removed the student is no longer on probation.

A student who has accumulated 20 or more quality points will be declared ineligible. Ineligible students are not allowed to enroll for at least one semester following the semester in which the student became ineligible excluding the summer semesters. If the ineligible student chooses to return after suspension, he/she will be required to sign a contract with the dean’s office stating conditions which the student must meet for further enrollment.

ADVISING

Prebusiness students are assigned to the College of Business dean’s office for advising. Each semester, the dean’s office holds advising sessions which are required for freshmen. Sophomores who need assistance are encouraged to visit the dean’s office. Once Junior status is attained, the student should register for a Junior Evaluation in the dean’s office. Only freshmen, probation students and first semester transfer students are required to have an advisor’s signature and stamp on their registration form 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 student will be academically withdrawn from that course. Fully admitted students are allowed to change majors at any time.
TELEPHONE REGISTRATION

College of Business students are allowed to use telephone registration with the following exceptions: newly admitted students, probation students and athletes. Second semester freshmen must be advised by the dean’s office before using telephone registration.

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. The student must have Senior standing, with a 2.0 or higher in their Overall, Marshall, COB and major GPA’s or Junior standing with a 3.0 GPA within the major.
2. 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.
3. 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. If a student registers for Independent Study without meeting the above conditions, then the Division Head may drop the student administratively from the course.

GRADUATION REQUIREMENTS

The following general requirements must be met by all students seeking bachelors 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 course work 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.
   e. At least 50% of the business courses required for the degree (excluding 9 hrs. of economics and 6 hours of statistics) must be earned at Marshall.
   f. At least 64 hours must be taken outside of the College of Business: 9 hrs. of economics and 6 hrs. of statistics can be counted as outside the College of Business.
4. Earn at least a 2.0 Grade Point Average (GPA) in each of the following four categories:
   a. All coursework attempted at Marshall and elsewhere.
   b. All Marshall coursework.
   c. All College of Business coursework (including courses in Economics and statistics).
   d. All coursework attempted and included in the major(s) at Marshall.
5. Successful validation of transfer work as required.
6. Removal of all Incompletes and, if required, passing of the English Qualifying Examination.
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. An assessment test will be given to all graduating students during their final semester. The assessment test has been designed to measure the preparedness of College of Business graduates to face the world of business in today's ever changing environment. The assessment test is required prior to graduation, but does not affect the student’s GPA.

9. 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.

All candidates for graduation must file a written Application for Graduation Form and a Diploma Graduation Fee Receipt with the records clerks in Corbly Hall 107 immediately after the beginning of the semester or summer term in which all requirements for the degree are to be met and by the deadline date printed in the catalog and schedule. A student on probation will not be permitted to apply for graduation.

To ensure graduation at the end of the term of application, all records should be documented with needed transcripts, substitution forms, grade changes, lower division validations, and English qualifying exam results by the posted deadline date.

Students should not plan to graduate at the end of a term in which they are completing required work at another institution.

BUSINESS ADMINISTRATION

Bachelor of Business Administration

A candidate for the degree of Bachelor of Business Administration (BBA) must complete general university and College of Business requirements for graduation.

Candidates for the BBA must earn a minimum of 128 semester hours, distributed among the following components: (1) at least 51-53 semester hours selected from a set of General Education Requirements to insure the student’s fundamental acquaintance with the Arts, Sciences, Humanities, Mathematics, American Institutions and International Studies; (2) 33 semester hours of Common Requirements in Business; (3) courses to complete one of the major fields of study - Accounting, Economics, Finance, Management, Management Information Systems or Marketing.

Students entering any degree program in the College of Business, beginning with the fall of 1995, will be responsible for meeting all Marshall Plan requirements. Components of this plan include Writing Across the Curriculum, Computer Literacy, International Studies, Multicultural Studies, Integrated Science and Mathematics, and the Capstone Experience.

Students need to plan their degree programs carefully with respect to the selection of General Education requirements. COB students must take at least 64 hours from outside the COB. Therefore, students need to plan properly in the selection of International Studies, American Institutions and Free Electives. Refer to the COB Advising Guide for specifics as this requirement applies to each major.

GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Studies 207 and one of the following:</td>
<td>6</td>
</tr>
<tr>
<td>CMM 308, 315, 319, 322, 401</td>
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</tr>
<tr>
<td>English 101, 102</td>
<td></td>
</tr>
<tr>
<td>COM 095 is required for students with an English ACT scores of 14-17. COM 094 is required for students with an English ACT score of less than 14. The graduation requirement is increased three hours per course for students who complete COM 094 and/or COM 095.</td>
<td>6</td>
</tr>
</tbody>
</table>

Computer Literacy Requirement:
Prebusiness students are required to show computer literacy proficiency through either taking an exam consisting of three distinct tests: Internet, Spreadsheets (Lotus 1-2-3) and Word Processing (WordPerfect) or enrolling in a course that substitutes for the exam. The computer literacy proficiency requirement can be fulfilled by passing CT 106 (Spreadsheets), CT 107 (Internet) and OT 107 (Word Processing) or by passing CSD 101. This requirement should be met during the freshman year.
Arts/Humanities................................................................................................................................ 6

Any course in the following areas may be selected: Art (except Art 113, 340, 460), Classical Studies, Dance, English (any course above 302), Music, Philosophy, Religious Studies or Theater.

Natural Sciences ............................................................................................................................... 7 or 8

Students must select at least 4 hours of integrated science (ISC) coursework (lab included). Refer to the Schedule of Courses printed each semester to determine which science courses have the ISC designation. All students must successfully complete a mathematics course above MTH 120 prior to enrolling in an ISC course.

To complete the remaining three hours of the science requirement, any courses in the following areas may be selected or the student may opt for a second ISC science course: Geology, Chemistry, Geography 101, Physics, Biological Science, Physical Science.

Mathematics 123 and 203 .................................................................................................................. 6

MAT 097 is required for students with mathematics ACT score 16-18. MAT 096 is required for students with a mathematics ACT score of less than 16. The graduation requirement is increased four hours per course for students who complete MAT 096 and/or MAT 097.

Behavioral Sciences ........................................................................................................................... 3

Psychology 201

American Institutions ....................................................................................................................... 6

Complete 6 credit hours selected from the following courses:

Anthropology 430, 455
Economics 310, 326, 332, 342, 415, 450, 456
Geography 206, 305, 320, 401, 402, 410, 414, 415, 416, 420
History 125, 230, 231, 310, 312, 323, 333, 342, 350, 402, 404, 405, 420, 424, 431, 432, 433, 440
Political Science 104, 202, 233, 301, 303, 307, 376, 423, 429, 433, 436, 440, 461, 484
Sociology 200 (Non-International Sections), 300, 310, 311, 313, 330, 342, 375, 401, 408, 413, 420, 423, 425, 428, 433, 435, 442, 450.

Social Studies 207

International Studies ............................................................................................................................ 9

To meet this requirement, the student must:

a. Select 3 hours from the following Economics courses: 150, 340, 408, 420, 460

b. Select 6 hours from the following (see NOTE below):

Anthropology 201, 426, 427, 437
Geography 100, 203, 302, 309, 314, 315, 317, 403, 405, 408, 412
History 103, 208, 221, 223, 301, 302, 304, 377, 378, 405, 423, 426, 428, 430, 434, 435
Political Science 309, 405, 406, 407, 408, 409, 410, 411, 415, 420, 422, 423, 424, 428, 429
Sociology 200 (International Sections), 401

NOTE: The courses that are designated as official “International Studies” electives under this heading will change semester by semester as determined by the International Studies Committee. Some of the above courses may be deleted; others may be added. To determine the exact list of options available to the student in any given semester, refer to the Schedule of Courses for courses designated as “International”.

Multicultural Studies and Writing Across the Curriculum

Multicultural Studies ......................................................................................................................... 3

To meet this requirement, the student must select 3 hours from among the courses that the Committee on Multicultural Studies designates as fulfilling this requirement. This list will change, semester by semester, as this committee monitors eligible courses. To determine the exact list of options available to the student in any given semester, refer to the Schedule of Courses for courses designated as Multicultural.

NOTE: Any course that fulfills this requirement can be double-counted by the student as 3 hours of credit toward fulfilling other general education requirements as specified in the catalog.

Writing Across the Curriculum ........................................................................................................ 3

Students must select 3 hours from among the courses that are designated as “Writing Intensive” in the Schedule of Courses.
COMMON REQUIREMENTS IN BUSINESS BBA DEGREE

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Literacy Proficiency or Course Substitution</td>
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</tr>
<tr>
<td>LE 207, Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>ACC 215, 216: Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>MGT 218: Business Statistics</td>
<td></td>
</tr>
<tr>
<td>ECN 250: Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECN 253: Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 320: Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 323: Principles of Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKT 340: Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 420: Operations Management*</td>
<td>3</td>
</tr>
<tr>
<td>MGT 460: Strategic Management**</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>33-36</td>
</tr>
</tbody>
</table>

*Not required for Accounting majors.

**MGT 460 is the BBA capstone experience required of all COB students excluding Health Care Management students. This course should be taken during the student's final semester.

PREBUSINESS CURRICULUM

<table>
<thead>
<tr>
<th>Year</th>
<th>First Semester Hrs.</th>
<th>Second Semester Hrs.</th>
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<tbody>
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<tr>
<th>Year</th>
<th>First Semester Hrs.</th>
<th>Second Semester Hrs.</th>
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</table>

SUGGESTED PROGRAMS OF STUDY FOR THE LAST TWO YEARS

ACCOUNTING

<table>
<thead>
<tr>
<th>Year</th>
<th>First Semester Hrs.</th>
<th>Second Semester Hrs.</th>
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<tbody>
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84/College of Business
### Fourth Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Accounting 313</td>
<td>3</td>
<td>Management 460 (Capstone)</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 429</td>
<td>3</td>
<td>Accounting 441</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 414</td>
<td>3</td>
<td>Accounting 451 (Capstone)</td>
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<tr>
<td>American Institutions elective</td>
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<td>Accounting Elective</td>
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<tr>
<td>Arts/Humanities Elective</td>
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#### ECONOMICS

### Third Year

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<tbody>
<tr>
<td>Marketing 340</td>
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<td>Economics Elective</td>
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<tr>
<td>International Studies Econ. Elective</td>
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<td>Finance 323</td>
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<tr>
<td>Management 320</td>
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<td>Economics 326</td>
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<tr>
<td>American Institutions Elective</td>
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<td>Free Elective</td>
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### Fourth Year

<table>
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<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Economics Elective</td>
<td>3</td>
<td>Management 460 (Capstone)</td>
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<tr>
<td>Arts/Humanities Elective</td>
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<td>Economics Elective</td>
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<tr>
<td>Free Elective</td>
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<td>Economics 423</td>
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<tr>
<td>Economics 440</td>
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<td>Free Elective</td>
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<td>Management 420</td>
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<td>Economics 466 (Capstone)</td>
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<td><strong>16-17</strong></td>
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#### ECONOMICS (INTERNATIONAL ECONOMICS CONCENTRATION)

### Third Year

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<tbody>
<tr>
<td>Marketing 340</td>
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<td>Economics 326</td>
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<tr>
<td>International Studies Elective*</td>
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<td>Marketing 371</td>
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<tr>
<td>Economics 328</td>
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<td>Finance 323</td>
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<td>Management 320</td>
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<td>International Studies Elective*</td>
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<td>American Institutions Elective</td>
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<td><strong>17-18</strong></td>
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### Fourth Year

<table>
<thead>
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<tbody>
<tr>
<td>Finance 440</td>
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<td><strong>Total</strong></td>
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</table>

*15 hours of International Studies Electives cannot be taken in the College of Business. This requirement can be met by taking 100 and 200 level language courses or by taking other university designated international courses. In addition, students may apply foreign experiences toward these hours. Check in the dean's office.
### FINANCE

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
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<td>Legal Environment</td>
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<td>308</td>
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### MANAGEMENT

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<td>Finance 323</td>
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<td>Management 419</td>
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<td>Free Elective</td>
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### MANAGEMENT (HEALTH CARE CONCENTRATION)

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<tr>
<td><strong>Second Semester</strong></td>
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<tr>
<td>Arts/Humanities Elective</td>
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<tr>
<td>Legal Environment 351</td>
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<tr>
<td>Management 354</td>
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</table>

*Senior Finance Case Study (capstone) courses (FIN 415, FIN 470) depend upon area of interest. FIN 415 is usually offered in the Fall. FIN 470 is usually offered in the Spring. Students do not take both courses.*
### First Semester
- **Management 350** ................................ 3
- **Finance 323** ....................................... 3
- **Free Elective** ...................................... 2-3

### Second Semester
- **Management 420** ................................ 3
- **Management 422** ................................ 3
- **Management 424** ................................ 3
- **American Institutions Elective** ............... 3
- **Management 471 (Summer Only)** ................. 4

**Total: 16**

### Fourth Year

#### First Semester
- **Management 420** ................................ 3
- **Management 422** ................................ 3
- **Management 424** ................................ 3
- **American Institutions Elective** ............... 3
- **Management 471 (Summer Only)** ................. 4

**Total: 16**

**Total Hours for First Semester: 35**

### Third Year

#### First Semester
- **Accounting 318** .................................. 3
- **Management 320** ................................ 3
- **Marketing 340** .................................... 3
- **International Studies Econ. Elective** ............ 3
- **Management Operations Elective** .................. 3
- **Free Elective** ...................................... 0-1

**Total: 15-16**

#### Second Semester
- **Management 425** ................................ 3
- **Management 422** ................................ 3
- **Management 420 (Capstone)** ....................... 3
- **Management Elective** ............................... 3
- **Free Elective** ...................................... 3

**Total: 18**

**Total Hours for Third Year: 30**

### Fourth Year

#### First Semester
- **Management Info. Systems 290** ................. 3
- **Management Info. Systems 310** ................. 3
- **Management Info. Systems 340** ................. 3
- **CSD 101 (taken in 2nd year)** ..................... 3
- **CSD: Visual Basic I (taken in 2nd year)** ....... 4

**Total: 16**

#### Second Semester
- **Finance 323** ....................................... 3
- **International Studies Econ. Elective** ............ 3
- **Marketing 340** .................................... 3
- **Management Info. Systems 330** ................. 3
- **Management Info. Systems 209** ................. 3
- **Management 320** ................................... 3

**Total: 18**

**Total Hours for Fourth Year: 34**

**Total Hours for Management (Operations Concentration): 105**

### MANAGEMENT INFORMATION SYSTEMS

#### Third Year

#### First Semester
- **Management Info. Systems 290** ................. 3
- **Management Info. Systems 310** ................. 3
- **Management Info. Systems 340** ................. 3

**Total: 9**

#### Second Semester
- **CSD Elective (300-400)** .......................... 3
- **Arts/Humanities Elective** ......................... 3
- **Management Info. Systems 410** ................... 3

**Total: 15**

**Total Hours for Third Year: 24**

#### Fourth Year

#### First Semester
- **CSD Elective (300-400)** .......................... 3
- **Arts/Humanities Elective** ......................... 3
- **Management Info. Systems 410** ................... 3

**Total: 30**

#### Second Semester
- **Management 418** ................................... 3
- **Management 460 (Capstone)** ....................... 3
- **Management Info. Systems 440** ................... 3

**Total: 15**

**Total Hours for Fourth Year: 30**

**Total Hours for Management Information Systems: 54**

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Marshall University 1997-99 Undergraduate Catalog

College of Business/87
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<thead>
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<th>Course</th>
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<td>Management Info. Systems 441</td>
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**MARKETING**

**Third Year**

First Semester
- International Studies Econ. Elective 
- Marketing 340 
- Management 320 
- Free Elective 
- Journalism 330 
- Marketing 231 (taken in 2nd year)

Second Semester
- Marketing 371 
- Marketing Elective 
- Finance 323 
- Free Elective 
- Marketing 350

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**Fourth Year**

First Semester
- Management 420 
- Marketing 442 
- Marketing Elective 
- American Institutions Elective 
- Free Elective

Second Semester
- Marketing 465 (Capstone) 
- Marketing Elective 
- Management 460 (Capstone) 
- Free Elective 
- Arts/Humanities Elective 
- Free Elective

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**MARKETING (BUSINESS LOGISTICS CONCENTRATION)**

**Third Year**

First Semester
- International Studies Econ. Elective 
- Marketing 340 
- Management 320 
- Free Elective 
- Journalism 330 
- Marketing 231 (taken in 2nd year)

Second Semester
- Free Elective 
- Finance 323 
- Marketing Elective 
- Marketing 350 
- Marketing 371 
- Free Elective

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</table>

**Fourth Year**

First Semester
- Management 420 
- Marketing 442 
- American Institutions Elective 
- Marketing Elective 
- Free Elective

Second Semester
- Marketing 465 (Capstone) 
- Management 460 (Capstone) 
- Free Elective 
- Marketing Elective 
- Arts/Humanities Elective

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**MINOR PROGRAMS OF STUDY**

Students may desire a limited but structured background in one of the functional areas of business.

Because the business core encompasses much of the foundation work required, completion of the minor would facilitate entry into the M.B.A. program. The following minor programs of study provide such structured backgrounds.

88/College of Business

Marshall University 1997-99 Undergraduate Catalog
Accounting Minor - A minimum of 12 credit hours in Accounting, to include ACC 215, 216, and six hours of accounting electives. Choose from among ACC 311, 312, 318, 348, 358, 360, 365, 412, 415, 418, 448.

Economics Minor - A minimum of 12 credit hours in Economics, with no more than three of those hours earned at the 100 level.

Finance Minor - A minimum of 12 credit hours in Finance, to include FIN 323, plus six hours from among FIN 325, 330, 370; plus three hours taken in any of the discipline’s 400-level courses.

Management Minor - A minimum of 12 credit hours, to include MGT 320, plus three hours from among MGT 420, 422; for the remaining six hours choose from:
- Health Care: MGT 350, 354
- Human Resources: MGT 424, 425 (or 422, if not already taken)
- Small Business: MGT 360, 461
- Management Information Systems: MIS 440, 441

Management Information Systems Minor - A minimum of 12 credit hours in Management Information Systems, chosen from among CSD 207 and the following MIS courses: 209, 290, 310, 330, 340, 410, 430, 440, 441.

Marketing - A minimum of 12 credit hours, to include MKT 231, 340, 371 and three hours of MKT at either the 300 or 400 level.

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 those 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. In the Advanced Course, the student receives a monthly tax free subsistence allowance of $150.00 up to $1500.00 and a military obligation is incurred.

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. Students who attain a high standard of military and academic achievement may be afforded an opportunity to apply for active duty commission with a beginning salary of about $28,000 per year.

Two-Year Program

Students who have not taken the first two years of Military Science may gain credit by attending Camp Challenge (MS 251) at Fort Knox, Kentucky. Students are awarded three credit hours for this camp and are paid approximately $850 for the six-week camp. You may attend Camp Challenge with no obligation. If the student decides to enter the Advanced Course 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.

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 age, physical condition, 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 of $150 a month. They also receive about $850 for attending a 6-week Advanced Camp (between the junior and senior year). Total remuneration for the final two years is approximately $3,000. All military textbooks, uniforms, and equipment are furnished at no cost to students.

Graduate Schooling

A delay to pursue a Master's Degree in any subject discipline other than Religious Studies may be granted for a period of up to 24 months. These opportunities are available before entering active duty, or at some later date. Future officers involved in a legal course of study or the medical sciences may delay their active duty for a period necessary to complete their studies, but not more than 36 months. All of these programs are varied and require intense application as a student.

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 spiritual and mental leadership. The extracurricular activities are: the Color Guard, Intramural Sports, Ranger Challenge Team (the variety sport of cadet command), Rifle Team, Scabbard and Blade, and Officer's Christian Fellowship.

For further information, contact the Military Science Department, Room 217, Gullickson Hall, or call (304) 696-6450.
College of Education and Human Services
College of Education and Human Services

MISSION OF THE COLLEGE

The College of Education and Human Services (COEHS) is one of the oldest academic units within Marshall University. When the West Virginia Legislature purchased Marshall College in 1867, it was 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 Human Services continues to prepare teachers and other professional educators, including counselors, principals, supervisors, superintendents and athletic trainers. It also provides continuing education opportunities for professional educators. All teacher education programs at Marshall University are under the control of the College of Education and Human Services. In addition to teacher education programs, the college administers related academic programs in Dietetics, Fashion Merchandising, Food Service Management, Parks and Leisure Services, Counseling, Safety Technology, and non-teaching physical education programs in Adult Fitness and Sports Management and Marketing. The College of Education and Human Services provides educational services for students and the community which include the Autism Center, Early Education Center, Learning Resources Center (LRC), and the Center for Higher Education for Learning Disabled People (HELP). The College of Education and Human Services provides education and services for a program that is open, complex, demanding, and evolving. It meets the academic needs of educators and other professional personnel in the area of educational services.

NOTE FUTURE CATALOG CHANGES FOR THE COLLEGE OF EDUCATION AND HUMAN SERVICES

The current sections of the catalog are being revised but they are not available for inclusion in this edition.

Please check with your advisor and/or the Dean of the College of Education and Human Services for more information. These changes will affect all students who are admitted to the College of Education and Human Services for the fall semester, 1997.

ADMISSION TO THE COLLEGE OF EDUCATION AND HUMAN SERVICES

Regular admission to the University constitutes admission to the College of Education and Human Services for entering freshmen and students transferring from other institutions of higher education; there is no separate admission procedure. Students in other colleges within Marshall University must have fewer than 20 deficiency points to be eligible for transfer to the College of Education and Human Services.

RESIDENCY REQUIREMENTS

Students who expect to complete degree requirements in the College of Education and Human Services are required to complete their capstone experience, which must include at least one year's work in residence, one semester of which must be in the senior year. A "year in residence" must represent not less than 30 weeks' work in residence with not less than 24 hours credit. 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 Human Services. (EXCEPTION: See Section B next paragraph)

Teacher Education residence requirements have been satisfied provided:

A. The West Virginia Department of Education will accept the program under the Approved Program arrangements.
B. The candidate for the degree and/or certification makes continuous progress toward the degree requirement. Continuous progress will be defined as a minimum of three (3) hours of approved credit within an academic year (including summer school).

When the candidate fails to complete the requirements within ten (10) years or fails to make continuous progress, he/she must meet the graduation/certification requirements in effect at the time of graduation or program completion. Any questions related to this matter should be referred to the Dean of the College of Education and Human 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 Dean's Office prior to enrollment.

ACADEMIC PROBATION

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

A student on probation must show the improvement stipulated by the College of Education and Human Services during each succeeding term in which he or she is enrolled. Students failing to meet this standard may 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 Dean in Jenkins Hall 225.

2. Students desiring to take courses at another institution must complete an official request form requesting approval PRIOR to visiting another institution as a transient student.

SCHOLASTIC INELIGIBILITY

Students are subject to academic and behavioral regulations of the university. For failure to comply with such regulations, a student may be suspended as provided by the Board of Trustees.

Students failing to meet academic standards may be suspended and declared ineligible to attend the next regular academic semester or may be dismissed from the university.

1. A student who has a deficit of 20 or more quality points at the end of a regular term will be suspended. Students with transfer credit must satisfy the standard for the overall and institutional GPA.

2. Permission to enroll in summer school must be obtained through the Dean's office Jenkins Hall 225.

PROGRAM REQUIREMENTS

The following information refers to programming required in the College of Education and Human Services.

1. Students must complete the curricular requirements as outlined in the undergraduate catalog in effect at the time they enter the College of Education and Human Services. Programs are under review at the time of this printing and are subject to change. Consult the Dean's Office, Jenkins Hall 225.

2. A minimum of 128 semester hours is required by the university for graduation. The degree program selected by College of Education and Human Services major could require additional hours to satisfy graduation. Program curriculums, as printed, could have the same course
listed in the general studies and option areas which need to be identified to determine the SPECIFIC NUMBER of SEMESTER HOURS REQUIRED for graduation in the selected major(s).

a. Credits for developmental courses are not included in the minimum 128 hour total.

b. Students enrolling in the first year of a foreign language must complete six (6) semester hours if it is to be included in the minimum 128 semester hours required for graduation. Students who complete one-half or three (3) semester hours of the requirement must complete an additional three (3) hours of credit for a total of 131 semester hours for graduation.

3. 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.

4. Although students are expected to complete a majority of their work at Marshall University, it is possible to complete some course work at other institutions. Arrangement for such enrollment must be made in advance of enrollment. Students must obtain permission form in the Dean's Office, Jenkins Hall 225.

GRADUATION REQUIREMENTS

Graduation requirements in the College of Education and Human Services differ by program area. General requirements for teacher education and human services programs are listed. Individual program requirements are identified with the specific programs.

Teacher Education Programs:
1. Satisfactory completion of the Marshall Plan and the culminating capstone experience (student teaching).
2. Completion of all required courses in each specialization, Pre-Professional Skills Tests, general education, and professional education.
3. Grade point averages of:
   a. 2.5 overall and on all courses attempted at Marshall University. Transfer credit may not be used to increase the grade point average except in the case of "D and F" repeat policy.
   b. 2.5 in each specialization.
   c. 2.5 in professional education.
4. Completion of a minimum of 128 semester hours, including at least 56 hours at Marshall University.
5. English composition (ENG 102, 302 or 201H grade of "C" or better)

Human Services Programs:
1. Completion of a minimum of 128 semester hours, including at least 56 hours at Marshall University.
2. Grade point averages of 2.0 overall and on all courses attempted at Marshall, unless otherwise stipulated by the program areas. (See your academic advisor for further information). A higher GPA may be required by specific governing agencies to satisfy the credentials application process.
3. English composition (ENG 102, 302 or 201H grade of "C" or better)

PRE-TEACHER EDUCATION

Incoming freshmen are admitted to Marshall University as Pre-Teacher Education students. During this time students are encouraged to register for general studies requirements. There is no bachelor's degree granted in pre-teacher education. Full admission to teacher education is dependent
on successful completion of the application for admission to teacher education standards. Transfer students are also admitted under the Pre-Teacher Education curriculum until they have met all of the standards for admission to teacher education. Pre-Teacher Education students should focus on completion of the following requirements while paying particular attention to prerequisites:

**PREREQUISITE to Teacher Education:**
1. Enrolled in the College of Education and Human Services as a PRE-TEACHER EDUCATION major.
2. Completed 24 credit hours
3. Quality point average of 2.5 or better for all courses attempted OVERALL.
4. Quality point average of 2.5 or better for all courses attempted at Marshall University.
5. Satisfactory completion of ALL THREE PARTS of the West Virginia Department of Education's requirement of the Pre-Professional Skills Test (PPST). Effective Fall, 1997, this test MUST BE COMPLETED WITHIN the FIRST 24 hours of course work in order for the student to make continuous progress in the professional education core.

The TRANSFER student MUST complete this requirement during the first 12 hours, if the intent is to begin the professional education core during the second term.

**ADMISSION TO TEACHER EDUCATION**

Prior to enrollment in the professional education core, each student will be asked to submit an Application for Admission to Teacher Education. During the semester the application is submitted, the student’s record will be evaluated by personnel in the Dean’s Office to determine eligibility for Admission to Teacher Education. (NOTE: Students must retain their eligibility for admission in order to be permitted to enroll in methods, student teaching and to graduate.)

Requirements for Admission to Teacher Education may be obtained in the office of the Dean, Jenkins Hall 225, College of Education and Human Services.

Each transfer student is responsible for initiating the application procedures through the Dean’s Office.

**TEACHER EDUCATION**

Students who desire to become teachers in 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 and Human Services. Faculty advisors and the representatives of the Academic Dean’s Office direct students in program through their college careers. Students who are enrolled in another college or school of the university may not enroll in the professional education core courses. There is no credit hour limit on enrollment in other academic departments administered by the College of Education and Human Services.

**LABORATORY FIELD EXPERIENCES**

All teacher education students participate in 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 public schools of the area as well as non-school agencies. Students who enroll for these activities must meet the standards of dress and conduct which apply to employees in the agency to which they are assigned.

Certain other programs require laboratory 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.
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 two years 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 Clinical Director, Jenkins Hall 225 for further details.

STUDENT TEACHING

An applicant for a professional certificate who is to be recommended to the West Virginia Department of Education for licensure must complete student teaching at Marshall University.

Any course work 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. No student may 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 Human Services has a large number of teacher candidates, it is sometimes necessary to assign students to selected schools away from campus. 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 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. GENERAL STUDIES REQUIREMENTS with the grade of “C” or better:
   a. MATH 3 hours
   b. SCIENCE 8 hours
   c. ENGLISH Composition I or 210 3 hours
   d. COMMUNICATIONS STUDIES 3 hours
3. 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 Dean’s Office.
4. A quality point average of 2.5 or better in all courses attempted and in all course work at Marshall University, in all courses in the teaching specializations, and in all courses in professional education. 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.
5. The completion of approximately three-fourths (3/4) of the course work in the teaching specialization(s). Applicants must complete a minimum of 100 hours prior to the beginning of student teaching.
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).

CERTIFICATE REQUIREMENTS (WEST VIRGINIA)

In addition to the graduation requirements, the prospective educator must meet the following requirements:

1. Acceptable score on NTE PRAXIS II Specialty Area Test for each teaching specialization. All students should complete the test(s) during their senior year.


3. Cumulative quality point average of 2.5 or better for all courses attempted.

4. Quality point average of 2.5 or better in all comprehensive or subject specializations. All courses within the selected comprehensive or subject specialization(s) are considered in computing the grade point average, whether or not they are listed as requirements for the student's specific comprehensive or subject specialization(s).

5. Quality point average of 2.5 or better in all professional education courses.

6. Quality point average of 2.5 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 a "D and 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 Office of the Dean, College of Education and Human Services. Fees to determine program requirements for additional endorsements or permits are as follows: Marshall University transcripts only, $5.00; multiple institutions, $20; international institutions, $30.

NOTE FUTURE CATALOG CHANGES FOR THE COLLEGE OF EDUCATION AND HUMAN SERVICES:

The current sections of the catalog are being revised but they are not available for inclusion in this edition.

Please check with your advisor and/or the Dean of the College of Education and Human Services for more information. These changes will affect all students who are admitted to the College of Education and Human Services for the fall semester, 1997.

COLLEGE OF EDUCATION AND HUMAN SERVICES PROGRAMS

EDUCATION PROGRAMS:

MULTI-SUBJECT EDUCATION K-8 (Elementary)
(Student majoring in Multi-Subject K-8 or a K-12, 9-12, or 5-12 program have the option of adding one or more of the following middle childhood endorsements.)

MIDDLE CHILDHOOD ENDORSEMENTS

Consumer and Homemaking 5-8
Early Education PK-K

Marshall University 1997-99 Undergraduate Catalog

College of Education and Human Services/97
English/Language Arts 5-8
French 5-8
General Science 5-8
Math 5-8
Mentally Impaired K-12
Oral Communication 5-8 (Speech)
Physically Handicapped K-12
Social Studies 5-8
Spanish 5-8

SECONDARY AND K-12 PROGRAMS:

Secondary Programs
  Art Education 5-12
  Athletic Training 5-12
  Biological Science 9-12
  Business Education Comprehensive 9-12
  Business Principles 9-12 (must choose a second 5-12 or K-12 specialization)
  Chemistry 9-12
  Consumer and Homemaking 5-8
  Consumer and Homemaking Comprehensive 5-12
  English/Language Arts 5-8
  English/Language Arts 5-12
  French 5-8
  French 5-12
  General Science 5-8
  General Science 5-12
  Health Education 5-12
  Home Economics Occupational 9-12 (must choose a second 5-12 or K-12 specialization)
  Journalism 9-12 (must choose a second 5-12 or K-12 specialization)
  Latin 9-12 (must choose a second 5-12 or K-12 specialization)
  Marketing Education 9-12 Comprehensive
  Mathematics 5-8
  Mathematics 5-12
  Oral Communication 5-8 (Speech)
  Oral Communication 5-12 (Speech)
  Physical Education 5-12
  Physics 9-12
  Safety 9-12 (must choose a second 5-12 or K-12 specialization)
  Social Studies 5-8
  Social Studies 5-12 Comprehensive
  Spanish 5-8
  Spanish 5-12

K-12 Programs
  Art Education K-12 Comprehensive
  Music Education K-12 Comprehensive
  Physical Education K-12
  School Library Media K-12 (must choose a second 5-12 or K-12 specialization)

HUMAN SERVICE PROGRAMS (COMPREHENSIVE):
(Only one specialization is required)

  Adult Fitness
  Business Emphasis
  Science Emphasis
  Athletic Training Comprehensive
Counseling  
Dietetics (Plan V)  
Fashion Merchandising  
Food Service Management  
Park Resources and Leisure Services  
Leisure Services  
Parks and Conservation  
Safety Technology  
Sports Management and Marketing

Students may obtain program sheets from the Dean's Office, College of Education and Human Services Office, Jenkins Hall 225. These forms will assist in the planning and in the recording of progress.

The curriculum information in this section of the catalog is subject to change. Contact your academic advisor or the Dean's office for verification of your degree program requirements.

GENERAL REQUIREMENTS FOR TEACHER EDUCATION PROGRAMS

Some of these hours may be included as a part of your declared major.

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

Students entering teacher education programs, beginning with the fall of 1995, will be responsible for meeting the requirements of the Marshall Plan, five new initiatives for general education. These include Writing Across the Curriculum, Computer Literacy, International and Multicultural Studies, Integrated Science and Mathematics, and the Capstone Experience. More detailed information about these requirements appears under Mission of University. Each student in the College of Education and Human Services should consult with his or her advisor to develop a plan for meeting these new requirements.

A. FINE ARTS .............................................................................................................................. 3  
Art (ART) 112, Theatre (THE) 112, Music (MUS) 142

B. COMMUNICATION STUDIES .......................................................................................... 15  
ENG 101 and 102 or 201H or 302 6  
LITERATURE (ENG) At or above the 300 level. 6  
CMM 103 or 104H or 305 3

C. MATHEMATICS (Select 3 hours from the following) ..................................................... 3  
MTH 121 (Special sections assigned for Elementary majors)  
or  
Mathematics course above MTH 121

D. COMPUTER SCIENCE ......................................................................................................... 1  
CI 102

E. PHYSICAL EDUCATION  
(Select 2 hours from any HPER (PE/PLS) activities courses) ........................................ 2

F. NATURAL SCIENCE ........................................................................................................... 8  
 a. INTEGRATED SCIENCE (ISC) 4  
b. Science coursework offered in the College of Science 4

G. SOCIAL SCIENCE (9 hours required) ............................................................................... 9  
SOS 207 3  
INTERNATIONAL STUDIES (Select 6 hours from the approved list) 6

Total General Requirement Hours ............................................................................................. 41

OTHER REQUIREMENTS

H. 128 Minimum Semester Hours

I. 45 Upper Division Hours

J. Pre-Professional Skills Test (PPST)

K. Admission to Teacher Education (see page 95)  
Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.  
Principles of Learning and Teaching (PLT) Test

M. Marshall Plan

Marshall University 1997-99 Undergraduate Catalog  
College of Education and Human Services 99
ART K-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ............................................................................................................ 54
   ART: (select three hours) 305, 306, 308 3
   ART: (select three hours) 403, 405, 407, 409, 412, 413 3
   ART 200 (complete 6 semesters) 0

B. Professional Education Core .................................................................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3
   CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
   CI 321 Early Childhood Curriculum and Methods AND Field Experience 3
   CI 468 Special Methods AND Field Experience 3
   EDF 475 Schools and Society 3
   CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41

D. Art majors must submit near the end of the freshman year 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.

E. All students must complete six semesters of ART 200 (0 credit hours)

F. Art majors must present during the senior year a satisfactory exhibition of creative work.

G. 45 Upper Division Hours

H. Pre-Professional Skills Test (PPST)

I. Admission to Teacher Education (see page 95)

J. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

K. Marshall Plan

ART 5-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ............................................................................................................ 45
   ART: (select three hours) 305, 306, 308 3
   ART 200 (complete 6 semesters) 0

B. Professional Education Core .................................................................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities  
CI 401 Middle Childhood Curriculum  
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades  
AND Field Experience  
CI 468 Special Methods AND Field Experience  
EDF 475 Schools and Society  
CI Student Teaching (full semester)  
C. General Requirements (see page 99)  
D. Electives (to meet the minimum required 128 hours for graduation)  
E. Electives: students may choose to use these hours toward a second endorsement.  
F. Art majors must submit near the end of the freshman year 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.  
G. All students must complete six semesters of ART 200 (0 credit hours)  
H. Art majors must present during the senior year a satisfactory exhibition of creative work.  
I. 45 Upper Division Hours  
J. Pre-Professional Skills Test (PPST)  
K. Admission to Teacher Education (see page 95)  
L. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.  
Principles of Learning and Teaching (PLT) Test  
M. Marshall Plan  
ATHLETIC TRAINER 5-12  
(Second Major Only)  
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.  
A. Teaching Specialization .......................................................... 60  
BSC 227, 228  
FCS 210  
HE 222  
PE 115, 127, 201, 215, 321, 345, 422, 435, 448, 449, 479  
PSY 201  
PE 375 or 478 (Select one)  
PSY 476, PSY 204, PSY 302, PSY 311, PSY 312 (Select one)  
HE 221, 430 (Select one)  
Clinicals: PE 255, 360, 361, 460 and 490  
B. Professional Education Core ...................................................... 37  
Descriptions for the following Professional Education Core courses may be obtained in the Dean’s Office.  
CI/EDF 200 Inquiry About Schools AND Field Experience  
ITL/CI 250 Instructional Technology & Computing  
EDF 300 Child Development and Learning  
CI 345 Critical Reading, Writing, & Thinking  
CI 421 Children with Exceptionalities  
CI 401 Middle Childhood Curriculum  
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades  
AND Field Experience  
CI Special Methods AND Field Experience (second major)  
EDF 475 Schools and Society  
CI Student Teaching (full semester)  
C. General Requirements (see page 99)  
D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test
J. 800 hours of practical experience under the supervision of a certified athletic trainer.
K. Admission to Athletic Training (GPA 2.5)
L. Marshall Plan

**BIOLOGICAL SCIENCE 9-12**

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization

- BSC 120, 121, 320, 322, 324: 20
- BSC 212 or 214: 4
- BSC 415 or 416: 4
- CHM 211, 212, 217, and 218: 10
- PHY 201 and 202: 4

Electives:
- BSC 302, 430, 460 or other BSC courses (Select three or four hours): 3-4

B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience: 3
- ITL/CI 250 Instructional Technology & Computing: 3
- EDF 300 Child Development and Learning: 4
- CI 345 Critical Reading, Writing, & Thinking: 3
- CI 421 Children with Exceptionalities: 3
- CI 474 Special Methods AND Field Experience: 3
- EDF 475 Schools and Society: 3
- CI Student Teaching (full semester): 9

C. General Requirements (see page 99)

(Some hours in this specialization may be used as General Studies Requirement)

D. Electives (to meet the minimum required 128 hours for graduation)

E. Electives: students may choose to use these hours toward a second endorsement.

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

**BUSINESS EDUCATION COMPREHENSIVE 9-12**

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization

- ATE 425: 3
- ACC 207, 215, 216 and 348 or any approved 300 or 400 level ACC 3-hour elective: 12
- BE 305, 325, and 421: 9
- ECN 253: 3
- MGT 320: 3
MKT 340  
OT 112, 114, 261, 236, 237 and 265  
(Student may request selected proficiency exams)  
B. Professional Education Core  

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience  
ITL/CI 250 Instructional Technology & Computing  
EDF 300 Child Development and Learning  
CI 345 Critical Reading, Writing, & Thinking  
CI 421 Children with Exceptionalities  
CI 469 Special Methods AND Field Experience  
EDF 475 Schools and Society  
CI Student Teaching (full semester)  

C. General Requirements (see page 99)  
D. Electives (to meet the minimum required 128 hours for graduation)  
E. Electives: students may choose to use these hours toward a second endorsement.  
F. 45 Upper Division Hours  
G. Pre-Professional Skills Test (PPST)  
H. Admission to Teacher Education (See page 95)  
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test  
J. To aid in fully understanding the application of theory to business, applicants must complete a minimum of 200 clock hours of verified work experience, simulation, or practicum in a five-year period prior to certification.  
K. Marshall Plan  

BUSINESS PRINCIPLES 9-12  
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/ non-credit option.  

A. Teaching Specialization  
ACC 207, 215, 216, and 348  
or any approved 300 or 400 level ACC 3-hour elective  
ATE 425  
BE 305, 325, and 421  
ECN 253  
MKT 340  
OT 261, 236, 237 and 265 (Student may request OT 236 proficiency exam)  
B. Professional Education Core  

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience  
ITL/CI 250 Instructional Technology & Computing  
EDF 300 Child Development and Learning  
CI 345 Critical Reading, Writing, & Thinking  
CI 421 Children with Exceptionalities  
CI 469 Special Methods AND Field Experience  
EDF 475 Schools and Society  
CI Student Teaching (full semester)  
C. General Requirements (see page 99)  
D. A Second 5-8, 5-12, 9-12 or K-12 Specialization  
E. 45 Upper Division Hours
CHEMISTRY 9-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 28
   CHM 211 and 212, 217, 218, 307, 327, 345, 365, 366

B. Professional Education Core .......................................................... 31

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience 3
- ITL/CI 250 Instructional Technology & Computing 3
- EDF 300 Child Development and Learning 4
- CI 345 Critical Reading, Writing, & Thinking 3
- CI 421 Children with Exceptionalities 3
- CI 474 Special Methods AND Field Experience 3
- EDF 475 Schools and Society 3
- CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41
(Some hours in this specialization may be used as General Studies Requirement)

D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. MARSHALL PLAN

EARLY EDUCATION PK-K
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 65
   ART 113, 340 6
   CI 101, 102, 201, 203, 300, 307, 342, 370, 446 23
   GEO 317 3
   HE 321 3
   HST 101, 102, or 103 (Select 6 hours) 6
   HST 230, 231, 440 9
   MTH 121 3
   MUS 242, 342 5
   PE 314 3
   NATURAL SCIENCE (Select 4 hours)
      BSC 104, 105, PS 109 and 109L, PS 110 and 110L 4

B. Teaching Specialization — Early Education, Ages 3-5 .......................... 9
   FCS 303, 431, 435 9
C. Professional Education Core ................................................................. 34

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 321 Early Childhood Curriculum and Methods AND Field Experience 3
CI 343 Introduction to Teaching Reading AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

D. General Requirements (see page 99) 41
(Some hours in this specialization may be used as General Studies Requirement)

E. Electives (to meet the minimum required 128 hours for graduation)

F. 45 upper division hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

ELEMENTARY K-8 (Multi-Subject)
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ........................................................................... 65
   ART 113, 340 6
   CI 101, 102, 201, 203, 300, 307, 342, 370, 446 23
   GEO 317 3
   HE 321 3
   HST 101, 102, or 103 (Select 6 hours) 6
   HST 230, 231, 440 9
   MTH 121 3
   MUS 242, 342 5
   PE 314 3
   NATURAL SCIENCE (Select 4 hours)
   BSC 104, 105, PS 109 and 109L, PS 110 and 110L 4

B. Professional Education Core ................................................................. 34

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 321 Early Childhood Curriculum and Methods AND Field Experience 3
CI 343 Introduction to Teaching Reading AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41
(Some hours in this specialization may be used as General Studies Requirement)
D. Electives (to meet the minimum required 128 hours for graduation)
E. 45 upper division hours
F. Pre-Professional Skills Test (PPST)
G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test
I. Marshall Plan

**ENGLISH/LANGUAGE ARTS 5-8**

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

<table>
<thead>
<tr>
<th>A. Teaching Specialization</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 303</td>
<td>3</td>
</tr>
<tr>
<td>CMM 320</td>
<td>3</td>
</tr>
<tr>
<td>ENG 317 or 319, 323, 326</td>
<td>9</td>
</tr>
<tr>
<td>ENG 402</td>
<td>3</td>
</tr>
<tr>
<td>ENG 420</td>
<td>3</td>
</tr>
<tr>
<td>ENG Special Topics: Sociolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 450 or 451</td>
<td>3</td>
</tr>
<tr>
<td>ENG 303 or 340</td>
<td>3</td>
</tr>
</tbody>
</table>

| B. Professional Education Core | 37 |

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience 3
- ITL/CI 250 Instructional Technology & Computing 3
- EDF 300 Child Development and Learning 4
- CI 345 Critical Reading, Writing, & Thinking 3
- CI 421 Children with Exceptionalities 3
- CI 401 Middle Childhood Curriculum 3
- CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
- CI 477 Special Methods AND Field Experience 3
- EDF 475 Schools and Society 3
- CI Student Teaching (full semester) 9

| C. General Requirements (see page 99) | 41 |

(Some hours in this specialization may be used as General Studies Requirement)

D. This specialization may not stand alone or be combined with another 5-8 specialization.

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)

H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

**ENGLISH/LANGUAGE ARTS 5-12**

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

<table>
<thead>
<tr>
<th>A. Teaching Specialization</th>
<th>36</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 317, 319, 321, 323, 326, 402, 420, 303 or 340</td>
<td>24</td>
</tr>
<tr>
<td>ENG 450 or 451, Special Topics: Sociolinguistics</td>
<td>6</td>
</tr>
<tr>
<td>English: (select 6 hours in English. Choose one 400 level course - preferably a period course; and a 3 hour elective, not to include ENG 331.)</td>
<td>6</td>
</tr>
</tbody>
</table>

| B. Professional Education Core | 37 |
Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience: 3
- ITL/CI 250 Instructional Technology & Computing: 3
- EDF 300 Child Development and Learning: 4
- CI 345 Critical Reading, Writing, & Thinking: 3
- CI 421 Children with Exceptionalities: 3
- CI 401 Middle Childhood Curriculum: 3
- CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience: 3
- CI 477 Special Methods AND Field Experience: 3
- EDF 475 Schools and Society: 3
- CI Student Teaching (full semester): 9

C. General Requirements (see page 99) ................................................................. 41

D. Electives (to meet the minimum required 128 hours for graduation)

E. Electives: students may choose to use these hours toward a second endorsement.

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

FRENCH 5-8

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization .......................................................... 18
   - FRN 101, 102, 203, 204: 12
   - FRN 310 or 311: 3
   - FRN 405 or 406: 3

B. Professional Education Core ................................................. 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience: 3
- ITL/CI 250 Instructional Technology & Computing: 3
- EDF 300 Child Development and Learning: 4
- CI 345 Critical Reading, Writing, & Thinking: 3
- CI 421 Children with Exceptionalities: 3
- CI 401 Middle Childhood Curriculum: 3
- CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience: 3
- CI 478 Special Methods AND Field Experience: 3
- EDF 475 Schools and Society: 3
- CI Student Teaching (full semester): 9

C. General Requirements (see page 99) ...................................................... 41

D. This specialization may not stand alone or be combined with another 5-8 specialization.

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.  
   Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

FRENCH 5-12
   Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 30
   FRN 101, 102, 203, 204, 314 ...................................................... 15
   FRN 310 or 311 ........................................................................ 3
   FRN 315 or 316 ........................................................................ 3
   FRN 405 or 406 ........................................................................ 3
   French Literature (select three hours with consent of advisor) ....  3
   French Elective (select three hours with consent of advisor) ....  3

B. Professional Education Core .......................................................... 17
   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.
   CIE/EDF 200 Inquiry About Schools AND Field Experience ........ 3
   ITL/CL 250 Instructional Technology & Computing .................. 3
   EDF 300 Child Development and Learning ............................... 4
   CI 345 Critical Reading, Writing, & Thinking ......................... 3
   CI 421 Children with Exceptionalities ...................................... 3
   CI 401 Middle Childhood Curriculum ....................................... 3
   CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience .................................................. 3
   CI 478 Special Methods AND Field Experience ....................... 3
   EDF 475 Schools and Society .................................................... 3
   CI Student Teaching (full semester) ........................................... 9

C. General Requirements (see page 99) ............................................ 41

D. Electives (to meet the minimum required 128 hours for graduation)

E. Electives: students may choose to use these hours toward a second endorsement.

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.  
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

GENERAL SCIENCE 5-8
   Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 28
   BSC 120, 121 and BSC 320 or PS 210 ....................................... 12
   GLY 200 and 210L .................................................................. 4
   PS 109 and 109L .................................................................... 4
   PS 110 and 110L .................................................................... 4
   PS 400 and 400L .................................................................... 4

B. Professional Education Core .......................................................... 37
   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.
   CIE/EDF 200 Inquiry About Schools AND Field Experience ....  3
   ITL/CL 250 Instructional Technology & Computing .................. 3

108/College of Education and Human Services

Marshall University 1997-99 Undergraduate Catalog
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 300 Child Development and Learning</td>
<td>4</td>
</tr>
<tr>
<td>CI 345 Critical Reading, Writing, &amp; Thinking</td>
<td>3</td>
</tr>
<tr>
<td>CI 421 Children with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>CI 401 Middle Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CI 403 Methods &amp; Materials of Teaching in the Middle Childhood Grades AND Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>CI 474 Special Methods AND Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>EDF 475 Schools and Society</td>
<td>3</td>
</tr>
<tr>
<td>CI Student Teaching (full semester)</td>
<td>9</td>
</tr>
<tr>
<td>C. General Requirements (see page 99)</td>
<td>41</td>
</tr>
<tr>
<td>(Some hours in this specialization may be used as General Studies Requirement)</td>
<td></td>
</tr>
<tr>
<td>D. This specialization may not stand alone or be combined with another 5-8 specialization.</td>
<td></td>
</tr>
<tr>
<td>E. 45 Upper Division Hours</td>
<td></td>
</tr>
<tr>
<td>F. Pre-Professional Skills Test (PPST)</td>
<td></td>
</tr>
<tr>
<td>G. Admission to Teacher Education (see page 95)</td>
<td></td>
</tr>
<tr>
<td>H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.</td>
<td></td>
</tr>
<tr>
<td>Principles of Learning and Teaching (PLT) Test</td>
<td></td>
</tr>
<tr>
<td>I. Marshall Plan</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL SCIENCE 5-12**

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>A. Teaching Specialization</td>
<td>40</td>
</tr>
<tr>
<td>BSC 120, 121, and BSC 320 or PS 210</td>
<td>12</td>
</tr>
<tr>
<td>CHM 203, 204, 217, 218</td>
<td>10</td>
</tr>
<tr>
<td>GLY 200 and 210L</td>
<td>4</td>
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<tr>
<td>MTH 130</td>
<td>3</td>
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<tr>
<td>PHY 201-202, 203-204</td>
<td>8</td>
</tr>
<tr>
<td>PS 400, 400L</td>
<td>4</td>
</tr>
<tr>
<td>B. Professional Education Core</td>
<td>37</td>
</tr>
</tbody>
</table>

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

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<thead>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>CI/EDF 200 Inquiry About Schools AND Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>ITL/CI 250 Instructional Technology &amp; Computing</td>
<td>3</td>
</tr>
<tr>
<td>EDF 300 Child Development and Learning</td>
<td>4</td>
</tr>
<tr>
<td>CI 345 Critical Reading, Writing, &amp; Thinking</td>
<td>3</td>
</tr>
<tr>
<td>CI 421 Children with Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>CI 401 Middle Childhood Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>CI 403 Methods &amp; Materials of Teaching in the Middle Childhood Grades AND Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>CI 474 Special Methods AND Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>EDF 475 Schools and Society</td>
<td>3</td>
</tr>
<tr>
<td>CI Student Teaching (full semester)</td>
<td>9</td>
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<td>C. General Requirements (see page 99)</td>
<td>41</td>
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<tr>
<td>D. Electives (to meet the minimum required 128 hours for graduation)</td>
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<tr>
<td>E. Electives: students may choose to use these hours toward a second endorsement.</td>
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<td>F. 45 Upper Division Hours</td>
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<tr>
<td>G. Pre-Professional Skills Test (PPST)</td>
<td></td>
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<tr>
<td>H. Admission to Teacher Education (see page 95)</td>
<td></td>
</tr>
<tr>
<td>I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.</td>
<td></td>
</tr>
<tr>
<td>Principles of Learning and Teaching (PLT) Test</td>
<td></td>
</tr>
<tr>
<td>J. Marshall Plan</td>
<td></td>
</tr>
</tbody>
</table>

Marshall University 1997-99 Undergraduate Catalog College of Education and Human Services/109
HEALTH EDUCATION 5-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 30
   FCS 210 ................................. 3
   HE 220, 221, 222, 321, 325, 426 ........................................ 18
   PE 201, 345 .................................. 6
   SED 235 ........................................ 3

B. Professional Education Core ......................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience .......................... 3
ITL/CI 250 Instructional Technology & Computing ........................................ 3
EDF 300 Child Development and Learning ................................................. 4
CI 345 Critical Reading, Writing, & Thinking ................................................. 3
CI 421 Children with Exceptionalities ............................................................ 3
CI 401 Middle Childhood Curriculum ....................................................... 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience .................................................. 3
CI 428 Special Methods AND Field Experience ............................................. 3
EDF 475 Schools and Society ................................................................. 3
CI Student Teaching (full semester) ............................................................. 9

C. General Requirements (see page 99) ................................................. 41
D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test
J. Marshall Plan

CONSUMER AND HOMEMAKING 5-8
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 28
   FCS 110, 112 or 213, 210, 212, 303, 306, 314, 351, 354, 358, 406, 415, 444

B. Professional Education Core ......................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience .......................... 3
ITL/CI 250 Instructional Technology & Computing ........................................ 3
EDF 300 Child Development and Learning ................................................. 4
CI 345 Critical Reading, Writing, & Thinking ................................................. 3
CI 421 Children with Exceptionalities ............................................................ 3
CI 401 Middle Childhood Curriculum ....................................................... 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience .................................................. 3
CI Special Methods AND Field Experience (See Advisor) .......................... 3
EDF 475 Schools and Society ................................................................. 3
CI Student Teaching (full semester) ............................................................. 9
C. General Requirements (see page 99) ................................................................. 41
D. This specialization may not stand alone or be combined with another 5-8.
E. 45 Upper Division Hours
F. Pre-Professional Skills Test (PPST)
G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
I. Marshall Plan

CONSUMER AND HOMEMAKING COMPREHENSIVE 5-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/
non-credit option.

A. Teaching Specialization .................................................................................... 48
   FCS 110, 201, 203, 210, 212, 213, 303, 314, 351, 354, 358,
   415, 416, 420, 427, 444 45
   FCS Electives: (select three hours from upper division courses) 3
B. Professional Education Core .......................................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the
Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/Cl 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades
   AND Field Experience 3
CI Special Methods AND Field Experience (see advisor) 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9
C. General Requirements (see page 99) ............................................................. 41
D. Electives (to meet the minimum required 128 hours for graduation).
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
J. Marshall Plan

HOME ECONOMICS OCCUPATIONAL 9-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/
non-credit option.

A. Teaching Specialization
   OPTION A - CHILDCARE SERVICES ............................................................ 28
   FCS 201, 210, 303, 415, 416, 435 16
   ART 113 3
   THE 225 3
   PE 260 3
   MGT 360 3
   OPTION B - FOOD SERVICES ................................................................. 25
   FCS 110, 201, 203, 210, 402, 405, 407, 413 22
   MGT 360 3
B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI Special Methods AND Field Experience (See Advisor) 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41

D. Electives (to meet the minimum required 128 hours for graduation)

E. A Second 5-8, 5-12, 9-12 or K-12 Specialization

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

J. 1500-2000 hours of related work experience. Consult Family & Consumer Sciences Work Experience Coordinator for specific requirements.

K. Marshall Plan

JOURNALISM 9-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization

JMC 150, 201, 202, 241, 302, 360, 402, 404, 428, 440 30
JMC Elective (select three hours from any other JMC courses) 3

B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI Special Methods AND Field Experience (Second Major) 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41

D. Electives (to meet the minimum required 128 hours for graduation)

E. A second K-8, 5-12, K-12, or 9-12 Teaching Specialization (excluding Safety)

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

LATIN 9-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.
A. Teaching Specialization ............................................................................................................ 33
   CI 436 ...................................................... 3
   LAT 101, 102, 203, 204, 240 ...................... 15
   Latin Electives (select 15 hours with approval of advisor) ................................................. 15
B. Professional Education Core .................................................................................................... 31

Descriptions for the following Professional Education Core courses may be obtained in the
Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience .................................................. 3
ITL/CI 250 Instructional Technology & Computing ................................................................. 3
EDF 300 Child Development and Learning ............................................................................. 4
CI 345 Critical Reading, Writing, & Thinking ......................................................................... 3
CI 421 Children with Exceptionalities ..................................................................................... 3
CI 478 Special Methods AND Field Experience .................................................................... 3
EDF 475 Schools and Society ................................................................................................. 3
CI Student Teaching (full semester) ....................................................................................... 9

C. General Requirements (see page 99) .................................................................................. 41

D. A Second 5-8, 5-12, 9-12 or K-12 Specialization ................................................................. 31

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)

H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

MARKETING EDUCATION COMPREHENSIVE 9-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/
non-credit option.

A. Teaching Specialization ............................................................................................................ 48
   ACC 215 ...................................................... 3
   CMM 207 ...................................................... 3
   ECN 250, 253 ................................................. 6
   MGT 320, 424 .................................................. 6
   MKE 205, 301, 485 ........................................... 9
   MKT 231, 340, 341, 344, 350 ......................... 15
   ATE 422, 425 .................................................. 6
B. Professional Education Core .................................................................................................... 31

Descriptions for the following Professional Education Core courses may be obtained in the
Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience .................................................. 3
ITL/CI 250 Instructional Technology & Computing ................................................................. 3
EDF 300 Child Development and Learning ............................................................................. 4
CI 345 Critical Reading, Writing, & Thinking ......................................................................... 3
CI 421 Children with Exceptionalities ..................................................................................... 3
CI Special Methods AND Field Experience (See Advisor) ................................................... 3
EDF 475 Schools and Society ................................................................................................. 3
CI Student Teaching (full semester) ....................................................................................... 9
C. General Requirements (see page 99) .................................................................................. 41
D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Program requires 2,000 hours of verified work experience in the marketing or service occupations. Wage earning experience shall be in businesses that (1) sell goods at retail, (2) services at retail, including financial and transportation services, and (3) wholesale.

K. MARSHALL PLAN

MATHEMATICS 5-8
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 18
   MTH 130, 140, 225, 330, 400, 401 18

B. Professional Education Core ........................................................... 37

   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3
   CI 401 Middle Childhood Curriculum 3
   CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
   CI 479 Special Methods AND Field Experience 3
   EDF 475 Schools and Society 3
   CI Student Teaching (full semester) 9

C. General Requirements (see page 99) .............................................. 41
   (Some hours in this specialization may be used as General Studies Requirement)

D. This specialization may not stand alone or be combined with another 5-8 specialization.

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)

H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

MATHEMATICS 5-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ................................................................. 34.35
   MTH 229, 230, 231, 330, 443, 445, 448, 449, 450 31
   Mathematics Electives:
   (select 3 or 4 hours from MTH courses at 300 or 400 level) 3-4

B. Professional Education Core ........................................................... 37

   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3

114/College of Education and Human Services

Marshall University 1997-99 Undergraduate Catalog
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
CI 479 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9
C. General Requirements (see pages 99) 41
(Some hours in this specialization may be used as General Studies Requirement)
D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test
J. Marshall Plan

MENTALLY IMPAIRED K-12 (MILD/MODERATE)
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.
A. Teaching Specialization ............................................................................................................ 65
   ART 113, 340 6
   CI 101, 102, 201, 203, 300, 307, 342, 370, 446 23
   GEO 317 3
   HE 321 3
   HST 101, 102, or 103 (Select 6 hours) 6
   HST 230, 231, 440 9
   MTH 121 3
   MUS 242, 342 5
   PE 314 3
   NATURAL SCIENCE (Select 4 hours)
   BSC 104, 105, PS 109 and 109L, PS110 and 110L 4
B. Teaching Specialization - Mentally Impaired K-12 ..................................................................... 15
   CI 320, 433, 435, 439, 453
C. Professional Education Core .................................................................................................... 34
   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3
   CI 321 Early Childhood Curriculum and Methods AND Field Experience 3
   CI 343 Introduction to Teaching Reading AND Field Experience 3
   EDF 475 Schools and Society 3
   CI Student Teaching (full semester) 9
D. General Requirements (see page 99) 41
(Some hours in this specialization may be used as General Studies Requirement)
E. Electives (to meet the minimum required 128 hours for graduation)
F. 45 minimum upper division (300-400) hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
J. Marshall Plan

MUSIC K-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization
   - Applied Major: 12
   - Applied Minor: 6
   - Music Major Ensemble: 7
   - MUS 115, 116, 121, 215, 216, 301, 315, 415, 422, 423, 425: 32
   - Music Electives: (select two hours from the following): 320 or 321: 2
   - Music Electives: (select three hours from the following): 261, 262, 263, 264: 3

B. Professional Education Core
   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.
   - CI/EDF 200 Inquiry About Schools AND Field Experience: 3
   - ITL/CI 250 Instructional Technology & Computing: 3
   - EDF 300 Child Development and Learning: 4
   - CI 345 Critical Reading, Writing, & Thinking: 3
   - CI 421 Children with Exceptionalities: 3
   - CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience: 3
   - CI 321 Early Childhood Curriculum and Methods AND Field Experience: 3
   - CI Special Methods AND Field Experience (See Advisor): 3
   - EDF 475 Schools and Society: 3
   - CI Student Teaching (full semester): 9

C. General Requirements (see page 99)

D. 45 Upper Division Hours

E. Pre-Professional Skills Test (PPST)
F. Admission to Teacher Education (see page 95)
G. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
H. Marshall Plan

ORAL COMMUNICATION 5-8 (COMMUNICATION STUDIES)
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization
   - CMM 202, 240, 213, 345, 450: 15
   - THE 225: 3

B. Professional Education Core
   Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.
   - CI/EDF 200 Inquiry About Schools AND Field Experience: 3
   - ITL/CI 250 Instructional Technology & Computing: 3
   - EDF 300 Child Development and Learning: 4
   - CI 345 Critical Reading, Writing, & Thinking: 3
   - CI 421 Children with Exceptionalities: 3
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
CI 476 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9
C. General Requirements (see page 99) 41
D. This specialization may not stand alone or be combined with another 5-8 specialization.
E. 45 Upper Division Hours
F. Pre-Professional Skills Test (PPST)
G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
I. Marshall Plan

ORAL COMMUNICATION 5-12 (COMMUNICATION STUDIES)
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.
A. Teaching Specialization
   CMM 202, 240, 213, 310, 320, 345, 450 21
   THE 150, 151, 222, and 437 9
   Journalism Elective: (select 3 hours from JMC courses at 200-400 level) 3
B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
CI 476 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9
C. General Requirements (see page 99) 41
D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.
F. 45 Upper Division Hours
G. Pre-Professional Skills Test (PPST)
H. Admission to Teacher Education (see page 95)
I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
J. 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 cocurricular activities before their senior year. Activities and hours of participation will be recorded by the Communication Studies Department.
K. Marshall Plan

PHYSICAL EDUCATION K-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

Marshall University 1997-99 Undergraduate Catalog College of Education and Human Services 117
A. Teaching Specialization

- HE 222: 3
- PE 118, 201, 211, 218, 310, 311, 314, 321, 345, 350, 369, 435: 27
- HPER Activity Classes (See Advisor for Motor Skills Requirement): 8

B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience: 3
- ITL/CI 250 Instructional Technology & Computing: 3
- EDF 300 Child Development and Learning: 4
- CI 345 Critical Reading, Writing, & Thinking: 3
- CI 421 Children with Exceptionalities: 3
- CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience: 3
- CI 321 Early Childhood Curriculum and Methods AND Field Experience: 3
- CI 473 Special Methods AND Field Experience: 3
- EDF 475 Schools and Society: 3
- CI Student Teaching (full semester): 9

C. General Requirements (see page 99)

- 2 hours, PE/PLS Activity, of this specialization may also be used as General Studies Requirements.

D. Electives (to meet the minimum required 128 hours for graduation)

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)

H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test, Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

PHYSICAL EDUCATION 5-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization

- HE 222: 3
- PE 118, 201, 211, 218, 310, 311, 314, 321, 345, 369, 435: 27
- HPER Activity Classes (See Advisor for Motor Skills Requirement): 8

B. Professional Education Core

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

- CI/EDF 200 Inquiry About Schools AND Field Experience: 3
- ITL/CI 250 Instructional Technology & Computing: 3
- EDF 300 Child Development and Learning: 4
- CI 345 Critical Reading, Writing, & Thinking: 3
- CI 421 Children with Exceptionalities: 3
- CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience: 3
- CI 321 Early Childhood Curriculum and Methods AND Field Experience: 3
- CI 473 Special Methods AND Field Experience: 3
- EDF 475 Schools and Society: 3
- CI Student Teaching (full semester): 9

C. General Requirements (see page 99)

- 2 hours, PE/PLS Activity, of this specialization may also be used as General Studies Requirements.

D. Electives (to meet the minimum required 128 hours for graduation)
E. Electives: students may choose to use these hours toward a second endorsement.

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

PHYSICALLY HANDICAPPED K-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ............................................................................................................ 65
   ART 113, 340 6
   CI 101, 102, 201, 203, 300, 307, 342, 370, 446 23
   GEO 317 3
   HE 321 3
   HST 101, 102, or 103 (Select 6 hours) 6
   HST 230, 231, 440 9
   MTH 121 3
   MUS 242, 342 5
   PE 314 3
   NATURAL SCIENCE (Select 4 hours)
   BSC 104, 105, PS 109 and 109L, PS 110 and 110L 4

B. Teaching Specialization - Physically Handicapped K-12 ........................................................ 18
   CI 320, 429, 431, 432, 435, 439

C. Professional Education Core .................................................................................................... 37

   Descriptions for the following Professional Education Core courses may be obtained in the
   Dean’s Office.

   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3
   CI 403 Methods & Materials of Teaching in the Middle Childhood Grades
   AND Field Experience 3
   CI 321 Early Childhood Curriculum and Methods AND Field Experience 3
   CI 343 Special Methods AND Field Experience 3
   EDF 475 Schools and Society 3
   CI Student Teaching (full semester) 9

D. General Requirements (see page 99) 41

   (Some hours in this specialization may be used as General Studies Requirement)

E. Electives (to meet the minimum required 128 hours for graduation)

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

PHYSICS 9-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ............................................................................................................ 39
   CHM 211, 217 5

Marshall University 1997-99 Undergraduate Catalog

College of Education and Human Services/119
PHY 201 and 202, PHY 203 and 204 8
PHY 320, 421, 447 9
PS 400, 400L 4
PHY 304, 308, 314, 405, 412, 415, 450 (Select 13 hours) 13
B. Professional Education Core .................................................................................................... 31

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 474 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

C. General Requirements (see page 99) .................................................................................. 41
8 hours of this specialization may be used as General Studies Science Requirements.

D. Electives (to meet the minimum required 128 hours for graduation)

E. Electives: students may choose to use these hours toward a second endorsement.

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. Marshall Plan

SAFETY 9-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/ non-credit option.

A. Teaching Specialization ....................................................................................................... 18
   HE 222 3
   SED 235, 385, 400, 410, 450 15

B. Professional Education Core
   1. A methods course must be completed in the 5-12, 9-12, or K-12 specialization which must accompany Safety.
   2. Professional Education courses: Refer to the declared 5-12, 9-12 or K-12 teaching specialization.
   3. CI 450 Student Teaching 6

C. General Requirements (see page 99) .................................................................................. 41

D. A second 5-12, 9-12 or K-12 Teaching Specialization (excluding Journalism)

E. Electives (to meet the minimum required 128 hours for graduation)

F. 45 Upper Division Hours

G. Pre-Professional Skills Test (PPST)

H. Admission to Teacher Education (see page 95)

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test

J. MARSHALL PLAN

SOCIAL STUDIES 5-8

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/ non-credit option.

A. Teaching Specialization ....................................................................................................... 33-34
   ECN 200 3
   GEO (select 6-7 hours from the following) 100, 101, 206, 317, 418 6-7
   HST 230, 231 6

120/College of Education and Human Services
Marshall University 1997-99 Undergraduate Catalog
NON-WESTERN WORLD (Select 3 hours)
HST 208, 301, 302, 377, 423, 429, 430, 435
HST 101, 102, 103 (Select 6 hours)
PSC 104
HST 440
SOS 404

B. Professional Education Core ......................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience 3
CI 467 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9

C. General Requirements (see page 99) 41

(Some hours in this specialization may be used as General Studies Requirement)

D. This specialization may not stand alone or be combined with another 5-8 specialization.

E. 45 Upper Division Hours

F. Pre-Professional Skills Test (PPST)

G. Admission to Teacher Education (see page 95)

H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test

I. Marshall Plan

SOCIAL STUDIES COMPREHENSIVE 5-12

Except for Student Teaching, courses in this category MAY NOT be completed under the credit/non-credit option.

A. Teaching Specialization ............................................................. 60

ANT 201 3
ECN 250, 253, 342, 408 12
GEO (Select six hours from the following) 100, 203, 317 6
HST 101, 102, 103, 230, 231, 440 18
Non-Western World History (Select six hours from the following)
HST 208, 301, 302, 377, 423, 429, 430, 435 6
PSC 104, 233, 440 9
SOS 404 3
American History: (select three hours from the following)
HST 250, 312, 333, 402, 403, 404, 405, 409, 414, 416, 431, 432, 433 3

B. Professional Education Core ......................................................... 37

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience 3
ITL/CI 250 Instructional Technology & Computing 3
EDF 300 Child Development and Learning 4
CI 345 Critical Reading, Writing, & Thinking 3
CI 421 Children with Exceptionalities 3
CI 401 Middle Childhood Curriculum 3
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades  
AND Field Experience 3
CI 467 Special Methods AND Field Experience 3
EDF 475 Schools and Society 3
CI Student Teaching (full semester) 9
C. General Requirements (see page 99) 41
(Some hours in this specialization may be used as General Studies Requirement)
D. Electives (to meet the minimum required 128 hours for graduation)
E. 45 Upper Division Hours
F. Pre-Professional Skills Test (PPST)
G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
I. Marshall Plan

SPANISH 5-8
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/  
non-credit option.
A. Teaching Specialization 18
   SPN 101, 102, 203, 204 12
   SPN 310 or 311 3
   SPN 405 or 406 3
B. Professional Education Core 37
   Descriptions for the following Professional Education Core courses may be obtained in the  
   Dean's Office.
   CI/EDF 200 Inquiry About Schools AND Field Experience 3
   ITL/CI 250 Instructional Technology & Computing 3
   EDF 300 Child Development and Learning 4
   CI 345 Critical Reading, Writing, & Thinking 3
   CI 421 Children with Exceptionalities 3
   CI 401 Middle Childhood Curriculum 3
   CI 403 Methods & Materials of Teaching in the Middle Childhood Grades  
   AND Field Experience 3
   CI 478 Special Methods AND Field Experience 3
   EDF 475 Schools and Society 3
   CI Student Teaching (full semester) 9
C. General Requirements (see page 99) 41
D. This specialization may not stand alone or be combined with another 5-8 specialization.
E. 45 Upper Division Hours
F. Pre-Professional Skills Test (PPST)
G. Admission to Teacher Education (see page 95)
H. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test.
   Principles of Learning and Teaching (PLT) Test
I. Marshall Plan

SPANISH 5-12
Except for Student Teaching, courses in this category MAY NOT be completed under the credit/  
non-credit option.
A. Teaching Specialization 30
   SPN 101, 102, 203, 204, 314 15
   SPN 310 or 311 3
   SPN 315 or 316 3
   SPN 405 or 406 3
   SPN Literature (select three hours with consent of advisor) 3
SPN Elective (select three hours with consent of advisor)  

B. Professional Education Core  

Descriptions for the following Professional Education Core courses may be obtained in the Dean's Office.

CI/EDF 200 Inquiry About Schools AND Field Experience  
ITL/CI 250 Instructional Technology & Computing  
EDF 300 Child Development and Learning  
CI 345 Critical Reading, Writing, & Thinking  
CI 421 Children with Exceptionalities  
CI 401 Middle Childhood Curriculum  
CI 403 Methods & Materials of Teaching in the Middle Childhood Grades AND Field Experience  
CI 478 Special Methods AND Field Experience  
EDF 475 Schools and Society  
CI Student Teaching (full semester)  

C. General Requirements (see page 99)  

D. Electives (to meet the minimum required 128 hours for graduation)  

E. Electives: students may choose to use these hours toward a second endorsement.  

F. 45 Upper Division Hours  

G. Pre-Professional Skills Test (PPST)  

H. Admission to Teacher Education (see page 95)  

I. Praxis II: National Teacher Exam (NTE) Subject Assessment/Specialty Area Test. Principles of Learning and Teaching (PLT) Test  

J. Marshall Plan  

GENERAL REQUIREMENTS: HUMAN SERVICES PROGRAMS  

Students entering human services programs, beginning with the fall of 1995, will be responsible for meeting the requirements of the Marshall Plan, five new initiatives for general education. These include Writing Across the Curriculum, Computer Literacy, International and Multicultural Studies, Integrated Science and Mathematics, and the Capstone Experience. More detailed information about these requirements appears under Mission of University. Each student in the College of Education and Human Services should consult with his or her advisor to develop a plan for meeting these new requirements.

A. FINE ARTS (Select 3 hours from the following) ................................................................. 3  
Art (ART), Theatre (THE), Music (MUS), Dance (DAN)  

B. COMMUNICATION STUDIES ................................................................................. 12  
ENG 101, and 102 or 302  

or ENG 201H (Accelerated class for freshmen selected on basis of ACT scores. Students completing ENG 201H are awarded three additional hours of credit toward graduation.)  
LITERATURE (ENG) Select 3 hours at or above 300 level  
CMM 103, CMM 104H, CMM 305 (Select 3 hours.)  

C. MATHEMATICS (Select 3 hours from the following) .................................................... 3  
MTH 121 or HIGHER  
CSD 101 or Higher level CSD  
ITL 468  

D. COMPUTER SCIENCE (Select 3 hours from the following) ........................................ 3  

E. PHYSICAL EDUCATION .......................................................................................... 2  
Select 2 hours from any HPER (PE/PLS) Activities courses  

F. NATURAL SCIENCE (select 8 hours from the following) .......................................... 8  
ISC or CHM 365  
Science coursework offered in the College of Science  

G. SOCIAL SCIENCE (9 hours required) ................................................................. 9
MULTICULTURAL (Select 3 hours from the approved list) 3  
INTERNATIONAL (Select 6 hours from the approved list) 6

Total General Requirement Hours ................................................................................................... 40

Other Requirements
H. See catalog for specific program requirements.
I. 128 Minimum Semester Hours
J. 45 Upper Division Hours
K. MARSHALL PLAN

**ADULT FITNESS INTERDISCIPLINARY**
Courses in this category MAY NOT be completed under the credit/non-credit option.
A. General Requirements (see page 123) ..................................................................................... 40
(Some hours in this specialization may be used as General Studies Requirement)
B. Professional Core
   1. Applied Core (15 hours) ...................................................................................................... 15
      PE 118, 218, 410 9
      PSY 201 and 440 6
   2. Cognate Core (24 hours) ..................................................................................................... 21
      PE 201, 215, 321, 345, 365 15
      HE 222 3
      FCS 210 3
   3. Activity Courses ..................................................................................................................... 6
      PE 115, 127, and 4 hours with approval of advisor 6
   4. Adult Fitness (19 hours) ...................................................................................................... 19
      PE 211, 375, 385, and 478 11
      PE 490 8
C. Students must choose 21 HOURS from ONE of the following options ................................ 21
   1. BUSINESS
      ACC 207, 215, 216 9
      FIN 323 3
      MGT 320 3
      MKT 340 3
      Elective (3 hours) 3
   2. SCIENCE
      MTH 122, 130 (prerequisites to CHM and PHY) 6
      CHM 211, 212, 217, 218 10
      PHY 201, 202, 203, 204 8
      Computer Literacy 6

Other Requirements
D. 128 Minimum Semester Hours
E. 45 Upper Division Hours
F. MARSHALL PLAN

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

The Physical Education area of the division of Health, Physical Education and Recreation, located in the College of Education and Human Services, offers a comprehensive interdisciplinary non-teaching option in physical education which affords students the possibility for emphasis in athletic training, leading to the Bachelor of Arts degree and the issuance of a Professional Service Certificate to serve as a Certified Athletic Trainer in the public schools. This program is approved by the National Athletic Trainers Association.
A. General Requirements (see page 123) ................................................................. 40
   (Some hours in this specialization may be used as General Studies Requirement)
B. Professional Core ........................................................................................................ 76
   1. Applied Core
      PE 118, 218, 410
   2. Cognate Core
      HE 220, 221, and 430 (Select two)
      HE 222
      PE 201, 321, 345, 410, 435
      PE 476, PSY 204, PSY 302, PSY 311, PSY 312 (Select one)
   3. Activity Courses (2 hours general studies)
      PE 115 and 127
   4. Natural Science
      BSC 227 and BSC 228 (General Requirement Science)
   5. Athletic Training
      FCS 210
      PE 375 or 478
      PE 215, 385, 422, 448, 449, 479
      Clinicals PE 255, 360, 361, and 460
   6. Professional Education
      (Ask your Academic Advisor about the Professional Education changes) 7-9
      EDF 114 OR
      CI/EDF 200 Inquiry About Schools and Field Experience
      EDF 218, 270 and 319 OR
      EDF 300 Child Development and Learning
   7. PE 490
   8. PSY 201
C. Electives - Restricted electives approved by advisor .............................................. 9
   Any of the following: CHM, PHY, CSD, CR, MTH (limit one course), PE 365, PE 375, PE 478,
   PS 109/109L, PS 110/110L, HE 321, HE 325, HE 430, PE 495H or PE 496H.
D. Pre-Professional Skills Test (PPST) prior to admission
E. Admission to Teacher Education (see page 95)
F. National Teacher Exam or NATA Certification Test
G. Admission to Athletic Training (GPA 2.5)
   1. Enrollment in the College of Education and Human Services.
   2. Sophomore standing. Transfer students must be enrolled as full-time students.
   3. Grade Point Requirements.
      a. 2.5 GPA overall and on all course work completed at Marshall.
      b. 2.5 GPA in professional education.
      c. 2.5 GPA in athletic training courses.
   4. A grade of C or better in ENG 101, 102, and CMM 103 or 305.
   5. A grade of C or better in EDF 218, HE 222, PE 201, and PE 215.
   6. Take and pass the PPST.
   7. Three letters of recommendation including one from a member of the Marshall University
      faculty.
   8. Submission of an application and resume by November 1 OR April 1.
   9. Interview by, and recommendation from, the Athletic Training Admissions Committee.
H. Graduation Requirements for Athletic Training
   1. A 2.5 GPA overall and on all course work at Marshall.
   2. A 2.5 GPA overall in professional education with all course grades of "C" or better.
   3. A 2.5 GPA in athletic training courses with grades of "C" or better.
   4. Completion of PE 490 with a grade of "B" or better.
   5. Completion of a minimum of 950 clinical hours under the supervision of an approved certified
      athletic trainer. The clinic hours must include four semesters of at least 200 hours each and
      one semester of public school experience (PE 490).
Other Requirements
I. 128 Minimum Semester Hours
J. 45 Upper Division Hours
K. MARSHALL PLAN

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

The undergraduate Counseling Program at Marshall University is in the College of Education and Human Services (COEHS) and is one of the programs in the Division of Human Development and Allied Technology (HDAT). Counseling Program offices and classrooms are located in Harris Hall with a central office in Room 357. Program graduates are prepared for preprofessional service in community, residential, drug and alcohol, and other human service or mental health agencies. Students are also prepared to begin additional study for advanced professional degrees in Counseling and related helping disciplines. Students receive the Bachelor of Arts Degree and must complete graduate training in Counseling before they are eligible for licensure as Licensed Professional Counselors or as certified public school counselors in West Virginia.

Students must satisfy the following requirements for admission:

A. Sophomore standing (minimum of 24 semester hours)
B. Achieve at least a “B” grade in CR 306 and CR 370
C. Achieve at least a 2.5 GPA for all courses through the previous semester
D. Complete PHY 201 & CMM 207
E. Submit a writing sample in CR 306

Students who satisfy the above minimum requirements must apply in the semester in which they complete CR 306 and CR 370 by submitting an admission application form. Those who apply are required to participate in an on-campus screening interview before an admissions committee comprised of Counseling faculty and graduate assistants, University representatives, and community agency officials. Students who are not selected for admission cannot reapply for a period of one year and cannot enroll in CR courses designated for “counseling majors only”.

ALL Counseling majors must meet the following requirements:

A. General Requirements (see page 123) ................................................................. 40
B. Academic Core (All Counseling majors are required to take these courses) ............. 27
   CR 306 & 370, 320, 415, 425, 433, 455, 474 .................................................. 21
   PSY 201, 311 ................................................................................................. 6
C. Applied Core (All Counseling majors are required to take these courses) ................. 24
   CR 370 & 306, 430, 435, 449, 470, 490
D. Supportive Requirements (Select 15 hours) ..................................................... 15
   CR 445, 454, 456, 475, 477, 479, 497, 499
E. Electives (to meet the minimum required 128 hours for graduation)

Other requirements:
F. 45 hours of requirements must be Upper Division Hours
G. Overall 2.5 GPA for graduation
H. MARSHALL PLAN

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

The Dietetic Program, housed in the Family and Consumer Science Program, leads to a Bachelor of Science degree and prepares students for work in clinical nutrition, community health, and food service management positions. The Didactic Program in Dietetics (DPD) is approved by the American Dietetic Association (ADA) and meets the academic standards to qualify students for an internship or pre-professional practice program (AP4). To be eligible to sit for the registration exam to become a Registered Dietitian, it is necessary to complete the undergraduate Didactic Program in Dietetics as
well as a supervised practice experience in a dietetic internship or preprofessional practice program.

All students are required to purchase a laboratory coat for professional laboratory courses. Some hospitals/physician offices may require that a current test for tuberculosis be on file for students enrolled for the senior level clinical nutrition classes.

Students need to be advised that to be competitive for admission to either a dietetic internship or AP4 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 dietetic related work experience. Completing the Bachelor of Science with a major in Dietetics and receiving an ADA “Verification of Completion Statement” does not guarantee entrance to an internship or AP4 which is done on a competitive basis.

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 Form for Admission to the Didactic Program in Dietetics” to the DPD Director's Office by October 15 or March 15. 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 60 hours of course work with an overall grade point average of 2.5 or higher
2. Earn at least a “B” in FCS 202A, 203, 210
3. Earn at least a “C” in CHM 211, 212, 217, 218, 327, 365

Academic Policies

1. An overall grade point average of 2.5 or higher is required for graduation.
2. All dietetic and required non-dietetic courses (see “B” and “C” below) must be completed with a grade of “C” or higher. Students who earn a grade of less than a “C” in a dietetic or required non-dietetic course must repeat that course. Dietetic students may repeat dietetic or required non-dietetic courses in which a grade of less than a “C” is earned only 2 times to obtain a grade of “C” or better.
3. All students who receive a grade of less than a “C” in a dietetic or required non-dietetic course may not register for dietetic 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 dietetic courses (including all 300 and 400 level FCS courses) and non dietetic courses must be completed within three years prior to graduation.
6. All 400 level Family and Consumer Sciences courses must be completed at Marshall University.
7. Students must be admitted to the Dietetic Program before taking required 400 level Family and Consumer Sciences courses.
8. All students admitted to the dietetic 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 dietetic program.

A. General Requirements (see page 123) ..................................................................................... 40
B. Supporting Courses ............................................................................................................. 61-63

Mathematics & Science: (Dietetic students are exempt from taking the Integrated Science requirement)

MTH 130 or 130E .................................................................................................................. 3-5
CHM 211, 212, 217, 218, 327, 365 .......................................................................................... 18
BSC 120, 227, 228, 302 or 250 ............................................................................................. 16

Social Science:

EDF 417, PSY 223, SOC 345 (Select one course) .................................................................. 3
PSC 233 .................................................................................................................................. 3
PSY 201 .................................................................................................................................. 3
SOC 200 .................................................................................................................................. 3

Marshall University 1997-99 Undergraduate Catalog
Management:
- ACC 410 ................................................................. 3
- ECN 250 ................................................................. 3
- MGT 320, 424 ......................................................... 6

C. Professional Courses ............................................ 43
- FCS 201, 202A, 203, 210, 303, 306, 320, 401 or 410, 403, 405, 407, 409, 413, 469, 470

Other Requirements
D. 128 Minimum Semester Hours
E. 45 Upper Division Hours
F. Marshall Plan

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

The Family and Consumer Sciences Program offers an option to students who are interested in fashion retailing. This option leads to a BA degree with a support area in marketing which prepares the students for positions in entry and mid-level management in fashion retail stores.

A. General Requirements (see page 123) .................. ............................................................. 40
   (Some hours in this specialization may be used as General Studies Requirement)
B. Family and Consumer Science Core Requirements ......................................................... 16
   - FCS 201, 210, 212A, 354A, 415, 444A
C. Family and Consumer Science Professional Core .............................................................. 35
   - FCS 270, 490 Practicum and Internship 6
   (1 credit hour = 100 work hours)
D. Cognate Requirements ............................................................................................................. 29
   - ACC 207, 410 ......................................................... 6
   - ART 214 ................................................................. 3
   - CHM 204, 215 .......................................................... 5
   - ECN 200 ................................................................. 3
   - MKT 231, 340, 344 ................................................... 9
   - Cognate Electives
     Select 3 hours from MKT 341, 414 or 437 (Select one course) 3

Other Requirements
E. Electives (to meet the minimum required 128 hours for graduation).
F. 45 Upper Division Hours
G. MARSHALL PLAN

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

An area of emphasis available to Family and Consumer Sciences majors is Food Service Management. This emphasis leads to a B.A. Degree. Graduates of this program would be highly employable in the evergrowing job market of food service, including entry level food and beverage management in hotels, restaurants and resorts, consultant with food company, institutional food service management, entrepreneurship and others.

A. General Requirements (see page 123) .................. ............................................................. 40
   (Some hours in this specialization may be used as General Studies Requirement)
B. CORE Courses ................................................................. 13
   - FCS 201, 210, 306A, 358, 415
C. Major Requirements ................................................................. 27
   - FCS 110, 203, 259, 359, 402, 405, 407, 471, 472 27
D. Cognate Courses ................................................................. 42
   - ACC 207, 215, 216 ......................................................... 9
BSC 302 ................................................................. 4
CHM 204, 215 .......................................................... 5
ECN 250, 253 ............................................................. 6
MGT 320, 419, 424, 425 ........................................... 12
MKT 231, 340 ............................................................ 6

Other Requirements
E. Electives (Select the remaining hours from 300-400 level classes to meet the minimum required
128 hours for graduation)
F. 45 Upper Division Hours
G. Marshall Plan

PARK RESOURCES AND LEISURE SERVICES

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

This is a non-teaching interdisciplinary program in Park Resources and Leisure Services leading to the Bachelor of Science degree. The program is accredited by the National Recreation and Park Association in conjunction with the American Alliance of Leisure and Recreation. The Park Resources and Leisure Services curriculum is a professional program; however, students who wish to follow a more specific program may select a recommended series of courses which are designed to prepare graduates for entry level employment in one or more of the following emphasis areas:

1. PARKS and CONSERVATION - Prepares graduates for employment in federal, state, local and commercial organizations whose responsibilities include the planning and management of natural resources for recreational use by the American people. Employment opportunities include national, state, and regional parks; national forests; Corps of Engineers' projects; outdoor education and environmental centers; commercial parks, zoological and botanical parks, and others.

2. LEISURE SERVICES (PUBLIC RECREATION) - This emphasis area prepares graduates for employment with organizations whose principal mission is the delivery of recreation programs and services. These organizations include public recreation departments, youth-serving organizations, commercial and industrial agencies, and social-serving agencies.

3. THERAPEUTIC RECREATION - Graduates having an emphasis in this area may seek employment with organizations whose responsibility includes the delivery of recreation programs and services to the ill, handicapped, elderly, and disadvantaged. These organizations include institutions for the mentally, physically, visually, and hearing impaired as well as social service agencies and institutions for the elderly.

A. General Requirements (see page 123) ..................................................................................... 40
(Some hours in this specialization may be used as General Studies Requirement)

B. Professional Preparation Requirements
(All Park Resources and Leisure Services Majors are required to take these courses.)
1. Park and Recreation Courses (PLS) ..................................................................................... 42
   PLS 101, 120, 210/270, 230, 301, 401, 402, 410, 411 .................................................. 30
   PLS 490 Internship ........................................................................................................... 12
   Internship Prerequisites: Senior standing, minimum 2.0 GPA, and not more than
   18 hours remaining before graduation.

2. Interdisciplinary Courses ........................................................................................................ 12
   CMM 207 ................................................................. 3
   HE 222 ...................................................................................... 3
   MGT 320 .................................................................................. 3
   MGT 424 (PR MGT 320, perm) ..................................................................................... 3

C. Specialized Courses ................................................................................................................. 20
   Select a minimum of 20 hours from the following list of courses. Students wishing to concentrate
   on courses in the Parks and Conservation, Leisure Services (Public Recreation), or Therapeutic
   Recreation emphasis areas will be counseled accordingly by their faculty advisor.
   BSC 405, 416 and 460
   CJ 211
CR 306 (CR 370), 261, 320
CR 370 (CR 306)
GEO 320, 414, 416, 429, and 430
JMC 330
MTH 225
PE 295, PE 345, 365, and 435
SOC 200, 311, 321, 335, 452

D. Restricted Electives (to meet the minimum required 128 hours for graduation)
   Restricted electives must be approved by advisor.

Other Requirements
E. 128 Minimum Semester Hours
F. 45 Upper Division Hours
G. MARSHALL PLAN

SAFETY TECHNOLOGY

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

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 follows the recommendations of the American Society of Safety Engineers for preparation of Safety Professionals. The non-teaching program allows students to prepare for professional safety positions in either of the two optional emphases: (1) mining, (2) Occupational Safety.

Students will be admitted to the program at the end of their sophomore year (60 hours of acceptable credit). The GPA and graduation requirements will conform to the standards set by the College of Education and Human Services. Each student in the program will be expected to maintain a 2.5 GPA after full admission into the program. An internship offered in cooperation with local industry and governmental agencies will be required as part of the regular course of study.

A. General Requirements (see page 123) ............................................................... 40
   (Some hours in this specialization may be used as General Studies Requirement)
B. Basic Studies ................................................................. 43
   ACC 207 ................................................................. 3
   CHM 211/217 and CHM 212/218 ............................................... 10
   CSD 101 ................................................................. 3
   EDF 417 ................................................................. 3
   EG 107, EG 221 .......................................................... 5
   HE 222 ................................................................. 3
   MGT 100 ................................................................. 3
   MTH 130, MTH 140 .......................................................... 6
   PHY 101/101L ............................................................ 4
   PSY 418 ................................................................. 3
C. Professional Safety Core .......................................................... 24
   SED 235, 372, 378, 454, 465, 475, 499 ................................... 21
   SED 490 (CAPSTONE) .................................................... 3
D. OPTIONS: Student must choose ONE of the following ..................................... 9-12
   OCCUPATIONAL SAFETY OPTION (select 12 hours)
      SED 340, 373, 375, 451, 455, 489, 497, 498 .......................................................... 1-4
      SED 480-483 .............................................................. 1-4
      SED 485-488 .............................................................. 1-4
      SED 491-494 .............................................................. 1-4
   MINING SAFETY OPTION (select 9 hours)
      MSF 410, 411, 412, 413, 414 .............................................................. 1-4
      MSF 480-483 .............................................................. 1-4
      MSF 485-488 .............................................................. 1-4
      MSF 490 INTERNSHIP .............................................................. 1-6

130/College of Education and Human Services
Marshall University 1997-99 Undergraduate Catalog
SPORTS COMMUNICATION
This program has been discontinued. Students who are interested in a minor in Sports Communication should contact the School of Journalism and Mass Communication.

SPORTS 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 Health, Physical Education, and Recreation, located in the College of Education and Human Services offers comprehensive interdisciplinary human services option in physical education which affords students the possibility for emphasis in Sports Management and Marketing, leading to a Bachelor of Arts degree.

A. General Requirements (see page 123) ................................................................. 40
   (2 hours HPER will count as General Requirements)
B. Required HPER Classes ....................................................................................... 21
   PE 118, 201, 218, 345, 475
   PE 290 PRACTICUM
   PLS 411
C. HPER Elective Classes (Select 15 hours from the following) .............................. 15
   PE 215, 321, 401, 420, 425, 435, 476
   PLS 320, 401, 402, 421
D. HPER (PE/PLS) Activity Classes ....................................................................... 6
   Select any 6 activity classes (2 hours satisfy General Studies Requirement)
E. Business/Journalism Required ........................................................................... 18
   ACC 410
   ECN 200
   JMC 330
   MGT 218, 320
   MKT 340
F. Students must choose any 6 hours from one of the following specialized tracks ... 6
   1. MARKETING/SPORTING GOODS RETAIL
      MGT 360, 422, 424
      MKT 341, 344, 437, 440
   2. MEDIA/COMMUNICATION/PUBLIC RELATIONS
      JMC 382, 383
      MGT 422
      MKT 341, 437, 442
   3. OPERATIONS/FACILITIES MANAGEMENT
      MGT 420, 422, 423, 424
      MKT 350, 440, 442
   Students choosing MGT 420 should have reasonable background in MATH.
G. Internship ........................................................................................................... 3-8
   PE 490
H. General Electives to meet the minimum required 128 hours for graduation
Other Requirements
I. 128 Minimum Semester Hours
J. 45 Upper Division Hours
K. MARSHALL PLAN
97

College of Fine Arts
College of Fine Arts

In April 1984, the West Virginia Board of Regents formally approved the establishment of the College of Fine Arts at Marshall University, effective with the beginning of the fall semester 1984. The College includes the academic departments of Art, Music, and Theatre, and the Marshall Artists Series.

MISSION OF THE COLLEGE

The fine arts are aesthetic responses to human nature and experience. They celebrate the best of human endeavor. They contribute to the individual and to society by reflecting and projecting values which shape every culture. They proceed from creation to experience and provide both the artist and audience with deeper understanding of traditions of human existence and thought. Thus, the fine arts are essential to education.

Consistent with the goals and purposes of education at Marshall University, the College of Fine Arts is dedicated to the transmission, application, and advancement of knowledge in the arts. The specific goals of the College of Fine Arts are:

1. To educate and train those seeking professions in the fine arts;
2. To support the University's general academic curricula by providing courses which stimulate understanding of and response to the fine arts;
3. To present regular, varied programs for the enrichment of students and the community; and
4. To provide leadership in the fine arts, and to promote them through service and programs.

PROGRAMS OF THE COLLEGE

Education in the fine arts is the central responsibility of the College of Fine Arts and provides the source of other collegiate activities. The combination of liberal education and a rigorous program for the development of artistic skills is necessary for students in each area of the fine arts. The educated professional in any facet of the arts must rely upon intellectual, creative, and critical abilities. These must be accompanied by discipline and sensitivity to insure independent growth and learning.

The curricula of the College of Fine Arts are designed to certify that, upon graduation, students of fine arts have completed a program which leads to development of the ability:

1. To master techniques necessary for performance in the fine arts or practice of an artistic discipline;
2. To express ideas effectively in speaking and writing;
3. To perceive, investigate, and solve problems through critical thinking, analysis, active imagination, and the application of appropriate research methods;
4. To acquire and interpret information and to form standards for the evaluation and appreciation of their cultural heritage and that of others; and
5. To understand the continuing evolution of their art form, its relationship to the other arts, and the place of arts in society and culture.

The College of Fine Arts offers undergraduate programs leading to the Bachelor of Fine Arts Degree (B.F.A.) with majors in Music, Theatre, and the Visual Arts. Programs leading to the Bachelor of Arts degree in Education with majors in Art and Music Education certifying teachers for West Virginia public schools are listed under the College of Education in this catalog. Graduate programs leading to the Master of Arts (M.A.) degree in art and music may be found in the graduate catalog.

All university students are encouraged to participate in courses and activities of the College of Fine Arts. Students wishing to develop or advance their artistic skills are welcome to enroll in studio or applied courses at no extra tuition charge and to join the various arts organizations. The departments of the College will assist students who desire minors in the arts and will develop sequences of courses to fit individual needs.

Through the College of Fine Arts, Marshall University enriches the campus and regional community with many performances, exhibitions, lectures, and special presentations. The programs of the Marshall Artists Series, including the Baxter Series, Mount Series, Belenger Series and Interna-
tional Film Festival and special events throughout the year, present world-class artists and organiza-
tions. Exhibitions in the Birke Art Gallery are open to all students. The Music Department 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
Fine Arts.

THE BACHELOR OF FINE ARTS DEGREE

The degree offered by the College of Fine Arts is the Bachelor of Fine Arts (B.F.A.). This is a
professional degree designed to prepare students for two future objectives: (1) career entry as profes­
sionals in their chosen artistic discipline; and/or (2) further professional study on the graduate level
in their chosen field.

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 in a specific artistic medium. The approved majors and areas of emphasis are
as follows:

MUSIC MAJOR
Areas of Emphasis
- Music Theory and Composition
- Music Performance

THEATRE MAJOR
Areas of Emphasis
- Acting/Directing
- Design/Theatre Technology

VISUAL ARTS MAJOR
Areas of Emphasis
- Crafts (Ceramics, Jewelry, Weaving)
- Graphic Design
- Painting
- Photography
- Printmaking
- Sculpture

Students should contact the department chairperson for information pertaining to each of the
majors and areas of emphasis and to determine special admission requirements for each potential
sequence. In unusual circumstances, students may enter the B.F.A. program as undecided majors
upon the recommendation of the dean or department chairperson.

Curricular Structure
The Bachelor of Fine Arts degree program, designed to parallel professional degree programs in
the arts in United States higher education, has three distinct components:

- General Distributional Requirements ................................................................. 47 credit hours
- Majors and Area of Emphasis Requirements ............................................... 82 credit hours
- Free Electives ........................................................................................................ 9 credit hours
- Total Required for Graduation ...................................................................... 138 credit hours

Distributional Requirements for the B.F.A degree

- English Composition, ENG 101, 102, or 20111 .................................................. 6 credits
- Communication Studies (CMM 103, 10411 or 305) ........................................... 3 credits

Students who have had a high school speech course and who pass a proficiency exam adminis­
tered by the Speech Department may have this requirement waived at the discretion of the
Speech Department, and the number of credits required for graduation reduced by three.
Foreign Language .................................................................................................................. 12 credits
Successful completion of 12-hour sequence ending with French 204 or French 264R, German
204R or 234, Greek 302, Latin 204, Spanish 204, or 264R. Students must begin and complete
their requirement in either the reading track (courses marked R) or in the normal language
skills track as indicated by 3-digit course number. Students who have had course work in for­
eign languages may receive advance standing depending upon their proficiency and may have
the total number of foreign language credits required reduced. The fourth semester course in any
case must be taken.

Humanities ............................................................................................................................. 6 credits
Selected from
Classics
English (300 or 400 level literature courses)
Modern Languages (Literary or cultural courses beyond the language requirements listed
above)
Philosophy (except 304 or 453)
Religious Studies

Social Sciences ....................................................................................................................... 9 credits
Courses from at least two of the following categories:
A. Economics or Political Science
B. Psychology or Anthropology/Sociology
C. Geography or History

Natural Sciences and Mathematics ...................................................................................... 11 credits
Must include Math 121 (3 hours), at least one Integrated Sciences course (IS: 4 hours).
Additional courses to make up the requirement can be selected from the following areas:
Biological Science
Chemistry
Computer Science
Geography 101
Geology
Mathematics (excepting Math 099)
Philosophy 304 or 453
Physical Science 109, 109L, 110, 110L
Physics

Students eligible for speech and/or foreign language waivers must conform to the university
policy of a minimum of 128 hours required for baccalaureate graduation.

UNIVERSITY BACCALAUREATE INITIATIVES

Students in the BFA Degree program are responsible for meeting the requirements of the five
baccalaureate program initiatives approved by the faculty and the university president for all stu·
dents. These initiatives include Writing Across the Curriculum, Computer Literacy, International
and Multicultural Studies, Integrated Science and Mathematics, and the Capstone Experience. Please
refer to Mission of the University. Students in the College of Fine Arts are to consult with their
program advisor or the chairperson of their major department for guidance in determining the spe·
cific details of meeting the above-referenced baccalaureate curricular initiatives.

MUSIC MAJOR

Students desiring to enter the Bachelor of Fine Arts degree program with the Music Major must
be formally admitted to the Music Department. This admittance is based upon an audition in the
student’s major performance area (instrument or voice) and an interview with the area faculty and
the department chairman. Students should contact the Department of Music office to arrange for an
audition and interview.

In addition to the general distributional requirements and electives, candidates for the Bachelor
of Fine Arts degree as Music Majors must complete eighty-two (82) credit hours of study in music.
This is divided into the core curriculum of forty-nine (49) credit hours and one of two areas of
emphasis of an additional thirty-three (33) credit hours of course work.
Upon completion of fourth semester (100-D level) major applied music study, students must pass a sophomore "hearing" for promotion to upper division (300-A level) major applied music study. Detailed information regarding policies and procedures for applied music and ensembles will be found in the APPLIED MUSIC HANDBOOK issued by the Music Department. All music majors in the B.F.A. program will be required to pass a piano proficiency examination as a requirement for graduation.

**Music Core Curriculum:** Art 112 or Theatre 112, Music 100, 115, 116, 121, 215, 216, 301, 315, 422, 423, 425; eight (8) credit hours of major applied music study (100 level); four (4) credit hours of minor applied music study (100 level); and four (4) credit hours of major ensemble relating directly to the major applied music area. Eight (8) semesters of non-credit applied music workshop (MUS 100) are required for the music option.

| Total | 49 credit hours |

**Performance Area of Emphasis:** Music 302, 304, 401, 499; eight (8) additional hours of applied major music study (300 level); four (4) additional hours of ensemble electives (full-time music students are required to participate in ensembles in each semester of residence); twelve (12) credit hours of directed music electives relating to the student's major performance area. Within these electives, students are expected to study specialized repertoire, techniques and performance problems in their major applied area. Voice majors will be required to study diction for singers (MUS 222, 224) as part of these electives. Electives shall be chosen in consultation with the student's departmental advisor. In addition to the formal coursework in this area of emphasis, a junior recital (half-hour shared program) is required for graduation.

| Total | 33 credit hours |

**Music Theory and Composition Area of Emphasis:** Music 302, 304, 401, 430, 431, 432, 433, 498; two (2) additional hours of major applied music study (300 level); four (4) additional hours of ensemble, and eight (8) hours of directed music electives relating to the theory and composition area in consultation with the departmental advisor.

| Total | 33 credit hours |

The Marshall University Department of Music is an accredited institutional member of the National Association of Schools of Music.

**THEATRE MAJOR**

Students desiring to enroll as majors in Theatre of the Bachelor of Fine Arts degree program should contact the Theatre Department prior to registration for requirements and sequences. At this initial meeting, the areas of emphasis will be explored, and students may plan the scheduling of their classes to ensure completion of all departmental and collegiate requirements.

Candidates for the Bachelor of Fine Arts degree, Theatre Major, must successfully complete eighty-two (82) credit hours of course work 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-four (44) credit hours and the student's choice of areas of emphasis with thirty-eight (38) credit hours.

In addition to formal course work, the Theatre Department provides laboratory experience in Marshall University Theatre, Marshall University Summer Theatre, reader's theatre, children's theatre, and the Marshall Dance Company. Students wishing to participate in any of these activities should contact the Theatre/Dance Department office.

**Theatre Core Curriculum:** Art 112 or Music 142, Theatre 101, 150, 151, 152, 220, 221, 222, 255, 310, 437, 440, 441, 499, and eight (8) credit hours of theatre practicum (THE 270 and 370).

| Total | 44 credit hours |
Acting/Directing Areas of Emphasis: Theatre 320, 322, 325, 438, 250 or 350, 420 or 421, 225 or 436, 360 or 410, Dance 205, and eleven (11) credit hours of approved electives. Approved electives may be selected from Art, Dance, Humanities, Music, Theatre, or other appropriate discipline, but they must be approved by the student's advisor and/or the departmental chairperson.

Total ...................................................................................................................... 38 credit hours

Design/Theatre Technology Areas of Emphasis: Art 217 or Art 214, Theatre 250, 260, 261, 350, 360, 450, 460, and three (3) hours of 491, 492, 493, or 494, and eleven (11) credit hours of approved electives. Approved electives may be selected from Art, Dance, Humanities, Music, Theatre, or other appropriate discipline, but they must be approved by the student's advisor and/or the departmental chairperson.

Total ...................................................................................................................... 38 credit hours

VISUAL ARTS MAJOR

Students desiring to enter the Bachelor of Fine Arts degree program with the Visual Arts major are urged to contact the Art Department prior to enrollment. A formal review of prior work in a portfolio is not required, but students are advised 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 eighty-two (82) hours of credit in art courses, including the core curriculum (58 hours), and a major area of emphasis (24 hours). Majors must also satisfy the following departmental requirements:

1. All Art majors must successfully complete six (6) semesters of Art 200.

2. In the second semester students must exhibit a portfolio of work done in the freshman courses for review by the faculty of Art. Students must register for Art 299. Included will be work done in Art 203, 214, 215, 217, and 218. Students not approved in the freshman review are required to repeat lower level work and will be given one more opportunity during their sophomore year to successfully pass the review. Should a student fail the second review the student will be asked to find a major outside the Art Department. Transfers from within Marshall University will have two semesters to complete the same courses listed above and participate in the same review. Transfers from art departments outside Marshall University will be required to complete the review in the first semester the student participates in our department. This student also has only one additional attempt to successfully complete the review. Successful completion of the freshman review is required prior to enrollment in advanced courses in art. Art majors must take the classes listed above before any other advanced art classes.

3. A successful exhibition of creative work must be presented by all students during the senior year as a requirement for graduation.

Art Core Curriculum: (students with a Crafts emphasis must select one outside of their specialization) Music 142 or Theatre 112, Art 203, 214, 215, 217, 218, 219, 255, 256, 301, 305 or 306 or 308, 307, 315, 390, 401, 402, 403 or 405 or 407 or 408 or 409 or 414, 412 or 413, 406, 418, 499.

Total ...................................................................................................................... 58 credit hours

Areas of Emphasis in Visual Arts: The Art Department offers six areas of emphasis in the Visual Arts option: Painting, Sculpture, Printmaking, Graphic Design, Photography, and Crafts. Students are required to select one of these areas of emphasis and to complete 24 credit hours of additional work in the selected areas of emphasis. Specific courses to be included in each areas of emphasis are as follows:

Crafts: Students may specialize in one of three areas as follows:

Ceramics: Art 305, 343, 344, 345, 446, 447, 448, 449, 451
Jewelry: Art 304, 306, 311, 326  
Weaving: Art 308, 419, 420, 421, 422, 450  
Graphic Design: Art 312, 314, 316, 317, 440, 490 and six additional hours selected from 441, 445, 452, 453  
Painting: Art 350, 351, 355, 360, 455, 456, 458  
Printmaking: Art 302, 320, 444, 463, 465  
Photography: Art 323, 324, 325, 423, 440 or Jrn 400, Sph 432, or Art 453, 426, 427  
Sculpture: Art 309, 331, 332, 333, 369, 417, 442, 443  
To complete the total of 24 hours in each areas of emphasis, students use credits from Advanced Studio Sequence courses, Art 475-476-477-478-479, which are applicable to any studio and which may be repeated for additional credit with the approval of the chairperson.

Total ...................................................................................................................... 24 credit hours

FREE ELECTIVES

Depending upon the specific courses taken to fulfill the distributional requirements of the College, students will need to complete nine to twelve (9-12) credit hours of free electives as a requirement for graduation. In choosing these electives, students are encouraged to explore courses which may provide information and experience helpful to their artistic development and professional future. Any university courses may be used to satisfy this requirement.

GENERAL ACADEMIC REQUIREMENTS

Students must earn a minimum of 128 credit hours to qualify for the Bachelor of Fine Arts degree and must successfully complete all general and specific requirements of the College and of the department in which the elected major and areas of emphasis are offered.

Candidates for graduation must have a quality point average of 2.0 or higher in all work attempted at Marshall University. The average in the major area of emphasis must also be 2.0 or higher on all work credited.

Forty-eight (48) credit hours must be earned in courses numbered 300-499 in all majors and areas of emphasis of the program.

Candidates for the B.F.A. degree must earn a minimum of 82 credit hours in the major and areas of emphasis.

No courses in the specific distributional and major requirements for graduation in the College of Fine Arts may be taken Credit/Non-Credit.

Minors in Fine Arts

The Bachelor of Fine Arts degree program does not require a minor. However, students wishing to earn a minor may do so by completion of a twelve (12) credit hour sequence within a department or discipline, of which no less than nine (9) credit hours must be in courses numbered 200-499. The minor may be taken in any department or discipline of the university.

Students not majoring in programs of the College of Fine Arts may complete a minor in a Fine Arts discipline in accordance with the policies and procedures of their major college.

Art Education

In addition to the B.F.A. degree in Visual Arts, the Art Department offers the Bachelor of Arts with teaching specializations for grades K-12 and 5-12. This program is described under the College of Education and Human Services and is designed to prepare the student for West Virginia public school certification in Art.

Music Education

In addition to the B.F.A. degree in Music, the Music Department offers the Bachelor of Arts with a teaching specialization for grades K-12. This program is described under the College of Education.
tion and Human Services and is designed to prepare the student for West Virginia public school comprehensive music certification.

BFA Degree Program Combined with Master of Arts in Teaching (MAT Degree Program)

As an alternate to the above referenced programs leading to Teacher Certification in Art 5-12 and K-12 and Music K-12 for the State of West Virginia, students may elect to pursue a program of study leading to completion and award of the BFA Degree followed by completion and award of the Master of Arts Degree in Teaching. Upon successful completion of the Master of Arts in Teaching Degree, including all requirements for the West Virginia Department of Education Teacher Certification, students would then be recommended by the College of Education and Human Services to be certified as art or music teachers.

Since it is highly desirable that students who intend a career in teaching have appropriate content-based pedagogy experience, during the time that the student is pursuing the BFA Degree, they should work closely with their advisor and specifically should seek to include (as allowed by the BFA program's electives or by judicious course substitution) the following undergraduate courses as preparation for entrance into the MAT. Specific courses for potential art or music teachers to be added to the BFA would be:

Art Education: Art 113, 340, 460, 350
Music Education: Music 261/262/263/264 (choose 3); 320 or 321, 415, 312 and 313 or additional piano study.

For further information on the alternative combination of the BFA/MAT Program, please contact the chairman of either the Art Department or the Music Department or the coordinators of Art or Music Education in the respective departments.

Double Area of Emphasis

In unusual circumstances, outstanding students may wish to pursue two areas of emphasis within a departmental major in the B.F.A. degree program. This is not to be considered as a second baccalaureate degree. The student must complete all specific requirements for both desired areas of emphasis, must be recommended for double areas of emphasis by the faculty of the specific areas, and must be approved by the department chairperson and the dean of the College.

MANDATORY ADVISING POLICY FOR FINE ARTS STUDENTS

Successful progress in professional curricula offered by the College of Fine Arts requires careful attention to course sequence and course prerequisites. Therefore, the College of Fine Arts has adopted a mandatory student advising program. Each student will be assigned a faculty advisor in the student's area of interest, who will provide academic advice and guidance in the student registration process. Prior to enrolling for classes, each student in the College of Fine Arts will consult with his or her advisor and secure the advisor's approval of his or her schedule as evidenced by the advisor's stamp and signature. 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 Fine Arts or the department chairman of the appropriate department.
College of Liberal Arts
College of Liberal Arts

MISSION OF THE COLLEGE

The mission of the College of Liberal Arts, in keeping with the mission of the university, is threefold: transmitting knowledge, advancing knowledge, and applying knowledge. Instruction, scholarship, and service, although constituting distinct activities, nevertheless should be viewed as parts of a whole. The bond uniting these functions is the dimension common to them all: a liberal education is the backbone of all university functions.

The primary goal of a liberal education should be to develop the individual's intellectual and moral faculties. By developing knowledge, confidence, and discipline, the individual should continue to learn both formally and independently and become a more autonomous, sensitive, and productive member of society. Upon graduation, therefore, the properly educated college student should have mastered the following necessary skills and be able (1) to think logically, critically, and creatively and to recognize this ability in others; (2) to communicate ideas clearly and effectively both in speaking and writing; (3) to form standards for evaluating the influences that help to shape individuals, institutions, and societies; (4) to appreciate the values, achievements, and aesthetic contributions of past and present cultures; and (5) to perceive, investigate, and solve problems by enlisting the most appropriate historical, comparative, quantitative, and qualitative research methods available.

The liberal arts curriculum aids in the development of these skills by requiring evidence that the student has (a) the ability to use oral and written English well; (b) knowledge of at least one other language; (c) a knowledge of mathematics, including statistics; (d) an understanding of the content and methods of study of the natural sciences, the social sciences, and the humanities; (e) proficiency in one discipline as a basis for the development of a profession or career.

Programs

The College of Liberal Arts offers four-year Bachelor of Arts and Bachelor of Science degrees.

The college is organized into these academic units:

Division of Communications
  Communication Disorders
  Communication Studies
  Journalism and Mass Communications

Division of Humanities
  Classical Studies
  English
  Modern Languages
  Philosophy
  Religious Studies

Division of Social Sciences
  Criminal Justice
  Geography
  History
  Political Science
  Psychology
  Sociology/Anthropology

Marshall University 1997-99 Undergraduate Catalog
ACADEMIC POLICIES

Enrollment

All students in the College of Liberal Arts must be enrolled in classes which satisfy the requirements of a degree granting program within the college. Students enrolled in or entering the college with no more than 57 hours of college work can identify a major area of study or can list themselves as undecided students. Students classified as undecided should enroll in classes which satisfy course requirements within the College of Liberal Arts.

An undecided student who completes 58 or more hours of college credit must declare a major in the College of Liberal Arts or transfer to the appropriate college. A declaration of major or intercollege transfer must be done in the College of Liberal Arts office.

Students wishing to transfer into the college with 58 or more hours of credit must choose a major within the college before they will be admitted.

All Liberal Arts students enrolled under previous catalogs within ten years prior to their expected graduation should meet the requirements in effect at the time they declared their major. A student who fails to complete graduation requirements within ten years must meet the curriculum requirements of the catalog in effect at the end of that ten year period.

Choosing a Major

The College of Liberal Arts offers majors in fifteen areas. Students enrolled in the college are assigned to a faculty adviser in their major department when they complete the “Declaration of Major” form at Freshmen Orientation or in the College Office. Liberal Arts students can choose majors in these fields:

- Basic Humanities (with an emphasis in: Classical Studies, Philosophy, Religious Studies)
- Classical Language: Latin
- Communication Studies
- Communication Disorders
- Criminal Justice (with an emphasis in: Law Enforcement/Corrections, Legal Studies)
- Economics
- English
- Geography
- History
- International Affairs
- Journalism and Mass Communications (with an emphasis in: Advertising, Broadcast News, Public Relations, Print, Radio/TV)
- Modern Languages (with an emphasis in: French, German, Spanish)
- Political Science
- Psychology
- Sociology (with an emphasis in: Anthropology, Applied, General)

Undecided in a Major

When they enter college, some students do not know what field of study they want to pursue. To declare a major just for the sake of having a major is unwise and unnecessary. Therefore, students can choose to be classified as “undecided” for up to 58 hours of college credit. These students are assigned to the Academic Advising Center for advising. The Advising Center primarily serves students who have not declared a major or who, with the plan of transferring to another institution, are pursuing a major that is not offered at Marshall University.

Change in Major or College

Students who decide to change their major or their college are governed by the catalog in effect at the time of change. All curriculum requirements of the catalog in effect at the time of the change must be met. Students who change their major or college must do so in the College of Liberal Arts office.

Mandatory Advising

College policy requires all freshmen and sophomores to see their advisers, (or the Academic Advising Center staff if they are “undecided” in a major), before they register each semester. Some departments have extended this requirement to all of their majors, so students should check with their advisers or department chairs.
The Baccalaureate Degree

Students completing requirements in the College of Liberal Arts receive the Bachelor of Arts (B.A.) degree or Bachelor of Science (B.S.) degree for certain majors. Each degree requires that a student earn 128 hours of credit and meet the general and specific requirements for the degree. Students must also meet the requirements of the department in which they are majoring.

Marshall Plan

Students entering any degree program in the College of Liberal Arts must meet the requirements of the Marshall Plan. These requirements include:

- Writing Across the Curriculum
- Computer Literacy
- International and Multicultural Studies
- Integrated Science and Mathematics
- Capstone Experience.

Students should consult with their academic program advisers or the chairperson of their major department for guidance in meeting the requirements of the Marshall Plan.

Academic Probation and Ineligibility

Students in the College of Liberal Arts are expected to make progress towards graduation. The college imposes restrictions on students who fail to do so and has developed strategies to help these students return to good academic standing.

Students who have a deficit of quality points in their Marshall or overall GPA are classified "on academic probation." Quality point deficits accumulate as a result of excessive grades of D, F, or WF, causing a student's GPA to fall below a 2.0. Students on probation have an academic hold placed on their registration status. This means that they cannot use telephone registration and that they must secure approval from the associate dean before they can register. Usually, students on probation cannot register for more than 13 semester hours. After consulting their academic adviser, they should bring their schedules to the College Office for approval by the associate dean. The associate dean will help them set goals for academic progress. One strategy is to repeat courses taken before the 60th attempted hour in which the student received a D or F or WF. (See "D and F Repeat Regulations" elsewhere in this catalog). When a student's quality point deficit is removed, the student is no longer on academic probation.

20 or More Quality Point Deficits

Students who accumulate 20 or more quality point deficits in their Marshall or overall GPA are declared "suspended." Suspended students are subject to the same restrictions as students on academic probation. In addition, a student who becomes suspended for the first time will be suspended for one regular semester following the semester in which they become suspended, excluding summer terms. A suspended student who wishes to return after suspension, or after attending a summer term, must meet the following goals in order to maintain eligibility:

During each semester or term in which a student has 20 or more quality point deficits:

- Students enrolled for 12 or more hours must reduce their quality point deficiencies by at least 4.
- Students enrolled for 9 to 11 hours must reduce their quality point deficiencies by at least 3.
- Students enrolled for 6 to 8 hours must reduce their quality point deficiencies by at least 2.
- Students enrolled for 1 to 5 hours must reduce their quality point deficiencies by at least 1.

Students who do not meet the goals stated above may be dismissed from the college for one calendar year. At the end of this period, a student can request readmission to the college. This request must be in writing to the Dean of the college.
General Requirements for Graduation

Candidates for graduation must have:

- a quality point average of 2.0 or higher on all work attempted at Marshall University, overall collegiate work, and in the major; students apply for graduation through the College Office.

- 48 hours earned in courses numbered 300-499 for all degrees; courses transferred from two-year or community colleges cannot be used to satisfy the upper division requirement; courses taken at four-year accredited colleges transfer at the level at which they were taken; students planning to transfer credit to Marshall should first consult with the associate dean to determine if the credit will apply to their degree program.

- at least 26 hours in a major subject (see specific departmental requirements) no more than 6 of which may be selected from courses in the 100 series with the exception of History and Geography; no course in the specific or major requirements for graduation (except CD 426L, CD 427L, CJ 490, and PSY 370) in the College of Liberal Arts may be taken Credit/Non Credit.

- at least 12 hours in a minor subject, no more than 3 of which may be from the 100 series; the minor subject can be chosen from any department in the university; (students should check English Department requirements for a minor in English and Modern Languages Department for a minor in German); no course in the minor requirements for graduation in the College of Liberal Arts may be taken Credit/Non Credit.

- satisfactorily completed an upper-division writing requirement in their major subject(s) consisting of a minimum of 2000 words in English; a student’s major department administers this requirement, preferably in the junior year, but no later than the first semester of the senior year.

- satisfactorily completed at least one course, specified by the departmental major, which will provide computer literacy.

- met the residency requirements specified elsewhere in this catalog, including the requirement that at least 15 hours in the major field must be taken at Marshall University.

During the junior year, and no later than the semester in which they have completed 80 semester hours, students should make an appointment with the Academic Adviser in the College Office for a credit evaluation. This evaluation is done to ensure that a student is making satisfactory progress towards graduation.

SPECIFIC REQUIREMENTS

HUMANITIES

I. English 101 and 102 or 302; or 201H ................................................................. 6 hrs.

II. Foreign Languages ................................................................. 3-12 hrs.
Successful completion of 12-hour sequence ending with German 234, Greek 302, Japanese 204, Latin 204, French 204 or 264R, Spanish 204 or 264R. Students with previous language experience should consult the prerequisites listed in the “Courses of Instruction” section of this catalog to determine the appropriate sequence of courses. International students may satisfy this requirement by consultation with the Department of Modern Languages.

III. Communication Studies ................................................................. 0-3 hrs.
Communication Studies 103, 104H or 305. Communication Studies 103 is not required for students who have had high school speech and who can pass a proficiency exam administered by the Communication Studies Department. Communication Studies 305 is open to juniors and seniors who have not had Communication Studies 103.
IV. Literature ................................................................. 6 hrs.
Courses to be selected from the following:
Classics 230, 231, 232, 233
English: any 300 or 400 level course in literature
French: any 300 or 400 level course in literature
German: any 300 or 400 level course in literature
Latin: any 300 or 400 level course
Religious Studies 202, 304, 310, 320, 325, 351
Spanish: any 300 or 400 level course in literature

V. Classics, Philosophy, or Religious Studies ................................................. 3 hrs.
One course to be selected from the following:
Classics any course except 230, 231, 232, 233
Philosophy any course
Religious Studies any course except 202, 304, 310, 320, 325, 351

VI. Fine Arts 101 ................................................................. 3 hrs.

SOCIAL SCIENCES

I. Courses to be distributed in at least three fields from economics, geography, history, political science, psychology, and sociology and anthropology ...................... 15 hrs.
Courses to be selected from the following:
Economics any course
History any course
Political Science any course
Psychology 201, and any course for which the student has the necessary prerequisite
Anthropology any course
Sociology any course except 108

SCIENCE AND MATHEMATICS

I. Natural and Physical Sciences
Students must take one 4 hour course in integrated science (ISC), and choose 8 hours from the following: biology, chemistry, geography 101, geology, physics and physical science ........................................ 12 hrs.

II. Mathematics: Math 121 or higher. (ACT scores of 0-15 must first take MAT 096; 16-18 must first take MAT 097. (If MAT 096 or MAT 097 must be taken, neither will fulfill the Math requirement or count toward the 128 hour requirement for graduation) .................. 3 hrs.

Total Required Credit Hours ........................................................................ 51-63 hrs.

Students may take courses in physical education and Military Science, but these courses are not required for graduation.

FOUR-YEAR CURRICULUMS

BASIC HUMANITIES

The Basic Humanities Degree Program is offered cooperatively by three separate departments: CLASSICAL STUDIES, PHILOSOPHY, and RELIGIOUS STUDIES. The faculties of these three departments have created a program of humanistic studies distinctly interdisciplinary yet informed and directed by the specific humanities disciplines involved.
The goal of the program is to encourage students to develop an understanding of themselves and their culture through an exploration of the ways in which mankind orders experience. The means of exploration is the study of texts in its broadest sense—the basic philosophical, religious, and artistic works which continue to shape human cultural experience.

The program consists of three parts:

Three required interdisciplinary Core Courses:
CL/PHL/RST 250 Orientation in Humanities, CL/PHL/RST 350 Basic Humanities, and CL/PHL/RST 499 Humanities Seminar. These courses follow the shared humanistic approaches and methodologies of the separate disciplines, but being team-taught, they encourage students to ask questions and find solutions through a comparative and multidisciplinary approach.

Three Period Studies Courses to be selected from one of two tracks:

Ancient World Track
- CL 230 Ancient Greek and Roman Epic
- CL 231 Women in Greek and Roman Literature
- CL 232 Ancient Greek and Roman Drama
- PHL 200 Introduction to Philosophy: Ancient Period
- RST 202 Approaching Biblical Literature

Modern World Track
- CL 319 Classical Mythology
- PHL 201 Introduction to Philosophy: Modern Period
- RST 205 Introduction to Religion in the Modern World

The period studies requirement provides an introduction to the methodologies of the separate disciplines and gives students a sense of the interrelationship among the diverse offerings of the separate departments. Unlike the interdisciplinary core courses which integrate course content, students are encouraged to discover these interrelations for themselves. Special emphasis is placed on critical thinking, logical expression of thought, and writing skills.

Five Courses by Contract to be chosen by the student with the advice of a committee of faculty members. These courses may be selected from the offerings of the three departments or from other humanities or university offerings. After an initial grounding in the content and methods of study of the Basic Humanities program, students have the opportunity to construct an advanced program of study with the advice of a committee of at least two faculty members, each from a different discipline involved in the program. A contracted program may be structured on the basis of chronological period, comparative cultures, traditional academic discipline, theme, or topic. Further information may be obtained from any faculty member in Classical Studies, Philosophy, or Religious Studies.

CLASSICAL STUDIES

Classical Studies is the area of scholarly study which investigates the Greek and Roman past in order to understand ourselves in relation to that past. This academic area includes the archaeologies, histories, literatures, languages, and cultures of ancient Greece and Rome from their neolithic origins until the end of the Fifth Century A.D.

The curriculum in the Department of Classical Studies has three objectives: to provide concentrated study in Latin; to give basic instruction in Greek; and to offer general humanistic courses in Classics, classical subjects taught in English. A concentration in Latin consists of thirty semester hours in Latin plus Classics 436. (Eighteen hours must be in courses numbered above 204.) Latin majors are required to complete a senior portfolio which documents their work in all advanced Latin classes (above LAT 204). When they enroll in their final advanced Latin class (LAT 404, 408, 409, or 410), they must also enroll in Latin 499, the Latin Capstone Experience, the non-credit course in which they will complete this portfolio. The approval of this portfolio by the faculty of the Department of Classical Studies is required for graduation. This concentration in Latin leads to a degree in Foreign Language with a major in Classical Language (Latin). A concentration in Classics leads to a degree in Basic Humanities.
COMMUNICATION DISORDERS

The Department of Communication Disorders offers academic coursework and clinical practicum leading to a B.A. pre-professional degree. CD majors, enrolled in the College of Liberal Arts, are required to take the following courses: CD 101, 241, 315, 325, 429, 439, 422, 422L, 425, 420, 460, 468, 430, 426, 426L, 463, 424, 424L, 427, and 427L. Students who apply for and/or accept clinical practicum assignments are expected to fulfill the responsibilities of these assignments for the full semester. Students who fail to do so may not be assured of future assignments. Students should contact the department chair, their academic advisor, and the clinic handbook regarding all academic and clinical requirements and standards specific to the program.

COMMUNICATION STUDIES

The Department of Communication Studies offers a variety of courses and major concentrations which are 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 program.

Communication Studies majors must fulfill the general and specific requirements for the BA degree. All majors must complete CMM 255, the department's computer literacy course. The major in Communication Studies consists of 36 hours in Communication Studies including CMM 303, CMM 411, and CMM 478, the Senior Seminar which is the capstone experience course, plus the courses required for one of the following concentrations:

Interpersonal Communication

The Interpersonal Communication concentration is intended for students seeking personal enrichment and/or futures in service industries and institutions, the professions, or graduate work in the field of Communication Studies. The following departmental courses are required for this concentration: 213, 311, 315, 345, and 413. Six more hours must be selected from the following list of departmental courses: 308, 319, 322, 406, 408, 409, 420. An additional 6 hours of electives must be selected from the previous list, CMM 490, and/or other courses in Communication Studies. The department recommends the formulation of a minor, in consultation with an advisor, in one of the following departments: Counseling and Rehabilitation, Psychology, 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: 319, 401, 406, 408, and 420. Six more hours must be selected from the following list of departmental courses: 213, 308, 311, 315, 322, 345, 409. An additional 6 hours of electives must be selected from the previous list, CMM 490, and/or other courses in Communication Studies. The department recommends the formulation of a minor, in consultation with an advisor, in one of the following departments: Journalism (Public Relations), Management, Political Science, Psychology, 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: 202, 308, 310, 402, and 409. Six more hours must be selected from the following list of departmental courses: 307, 311, 316, 322, 345, 401, 406, 420. An additional 6 hours of electives must be selected from the previous list, CMM 490, and/or other courses in Communication Studies. The department recommends the formulation of a minor, in consultation with an advisor, in one of the following departments: Criminal Justice, English, History, Journalism, Marketing, Political Science.
Communication Education

In cooperation with the College of Education and Human Services, Communication Studies offers the following concentration.

The Communication Education concentration is intended for students seeking teaching specialization in Oral Communication for the Middle School (grades 5-8) or Middle and Secondary School (grades 5-12). See College of Education and Human Services for college and specialization requirements.

Minor in Communication Studies

A minor in Communication Studies cannot include CMM 103, CMM 104H, CMM 207 or CMM 305 as those courses are used to fulfill the general education requirements for all students.

CRIMINAL JUSTICE

The Criminal Justice Department is committed to those items enumerated in the mission statements of Marshall University and its College of Liberal Arts. First and foremost, the Criminal Justice Department strives to prepare future leaders by providing undergraduate and graduate students with a quality liberal arts criminal justice education. This education includes critical thinking skills, problem solving skills, research skills, language/communication skills, and development of students' intellectual capabilities. The Criminal Justice Department is also committed to: (1) applied and basic research; (2) leadership and public service to the community; and (3) developing insight into multicultural and global issues.

The curriculum is designed to assist students planning to enter graduate school, law school, research, government service, or social service, including law enforcement, corrections, probation/parole and juvenile justice.

A. Students must complete the following in order to be eligible to declare Criminal Justice as a major:
   1. All students must complete at least 15 hours, 100 level or above, with an overall GPA of 2.25 or higher.
   2. All students must complete ENG 101 or ENG 201H with a grade of "C" or higher.
   3. Prospective Law Enforcement or Corrections majors must complete either CJ 211 or CJ 231 with a grade of "C" or higher.
   4. Prospective Legal Studies majors must complete either LA S 101 or CJ 321 with a grade of "C" or higher.

B. After completing the above requirements, the students must apply to be a Criminal Justice major at the College of Liberal Arts office (OM 107). At that time, the student's major status is changed from "undecided" to Criminal Justice with a concentration in either Law Enforcement, Corrections or Legal Studies.

A candidate for a B.A. degree in Criminal Justice must fulfill the general and specific requirements of the College of Liberal Arts. In addition, a concentration area must be selected and completed from one of the following areas:

Concentration A (Law Enforcement and Corrections):
This provides a general concentration of coursework intended for students interested in pursuing professional careers within the criminal justice system. The required course sequence includes: CJ 211, 231, 321, 322, 404, and 425 as well as Statistics (MTH 225, PSY 223, or SOC 345), plus eighteen additional hours of Criminal Justice electives. Recommended courses are ECN 100, PHL 303 and 304, and HIST 342. Students contemplating graduate work and/or professional career positions within the federal government are encouraged to take ECN 250 and 253, instead of ECN 100; and SOC 443.

Marshall University 1997-99 Undergraduate Catalog

College of Liberal Arts/149
Concentration B (Legal Studies): This is intended for students interested in pursuing professional careers within the legal system and/or entering law school. The required course sequence includes: LAS 101, 102, 211, and 240, and CJ 301, 321, 322, 323, 421, and 422. Also, CJ 404, Statistics, ECN 100, PHL 303 and 304, and HST 342 are recommended. Students contemplating graduate work and/or professional career positions within the federal government are encouraged to take ECN 250 and 253, instead of ECN 100; MTH 120; and SOC 443.

The Two-Plus-Two program in Legal Studies allows students possessing an associate degree in Legal Assisting from the Community and Technical College to apply designated credits toward a Baccalaureate degree in Criminal Justice/Legal Studies. Students in the Two-Plus-Two are not exempt from the undergraduate candidacy requirement described above. Students interested in pursuing the Two-Plus-Two degree should contact the chair of the Criminal Justice Department for information concerning the requirements of the College of Liberal Arts to assure timely completion of the Two-Plus-Two degree.

ECONOMICS

The Department of Economics offers an undergraduate curriculum in the College of Liberal Arts and in the College of Business. The curriculum offers opportunity for preparation in one or more of three career objectives. It is designed:

1. To help prepare students for effective participation in the decision-making processes of society by offering them an opportunity to develop their ability to analyze economic problems and issues and to deepen their understanding of the operation of the economies of the U.S. and other countries. Economics deals with such subjects as economic theory, business fluctuations, distribution of resources and income, international trade, economic development, managerial decision-making, industrial relations, and the growth of national income and welfare.

2. To prepare majors for administration or research positions in business firms, government agencies, labor organizations or private foundations.

3. To provide suitable courses and instruction for majors who plan to enter law or graduate school. Majors must fulfill the general and specific requirements for the B.A. degree and must complete the following course work: Economics 250, 253, 326, 328, 423, 440, 466 and 467 and 12 additional hours in economics to be chosen with the advice and approval of the academic advisor; Mathematics 203; and Management 218. A minor may be earned by completing 12 hours in economics.

For the B.B.A. degree with a major in Economics, see the College of Business.

ENGLISH

The Department of English offers a wide range of courses in literature, language, and writing. These courses are designed to meet the needs and interests of English majors in the various colleges, of English minors, and of students majoring in other fields.

Four areas of emphasis are available to the English major: a Literature English Major, a Writing English Major, a Pre-professional English Major, and a English Education English Major.

Although the emphases of 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 two courses, one at the 300 level and the 400 level, culminating in an exit portfolio.

Literature English Major: 317, 319 (6 hrs.); 321, 350 (6 hrs.); 306, 313, 315, or 331 (3 hrs.); 410 or 412 (3 hrs.); 405 or 475 (3 hrs.); 450 or 451 (3 hrs.); 409 or 411 (3 hrs.); 420 (3 hrs.); electives (6 hrs.). Total: 36 hrs. Six hours of the electives must be at the 400 level and one course in American Literature should be selected and included in the group. Students and advisors should carefully work out appropriate courses and minors for this concentration. Especially recommended are courses and minors from other humanities departments.

Writing English Major: 317, 319 (6 hrs.); 321, 323 (6 hrs.); 409, 410, 412 or 411 (3 hrs.); 306, 313, 315 or 331 (3 hrs.); 354, 360, 377, 378, 408, 491, or 492 (12 hrs.); electives (6 hrs.). Total: 36
Six hours of the electives must be at the 400 level. Students aided by their advisors will work out carefully the proportion of literature courses to writing courses in relation to the desired emphases in writing essays, poetry, or prose.

Pre-professional English Major: 317, 319 (6 hrs.); 321, 323 (6 hrs.); 405 or 475 (3 hrs.); 450 or 451 (3 hrs.); 409, 410, 412, or 411 (3 hrs.); 354 or 408 (3 hrs.); electives (6 hrs.). Total: 30 hrs. Six hours of the electives must be at the 400 level. This concentration is designed to be pursued with another major in order to enhance the liberal arts and communication skills valued in many professional specializations. Permission of the chairperson is required.

English Education English Major: Teaching specialization in Language Arts. See College of Education and Human Services.

A minor in English may be earned by presenting 15 hours in English beyond 102 or 302 or 201H, with no more than six hours on the 300 level.

FOREIGN LANGUAGES

French, German, Latin, Spanish

A major in one of the foreign languages (French, German, or Spanish) consists of thirty semester hours in the same language. Eighteen hours must be in courses numbered above 204 in French or Spanish or 234 in German and must include nine hours of courses at the 400 level. A minor in German consists of eleven hours of study beyond German 230. A student may not major or minor in Japanese. For a major in Latin, see Classical Studies.

GEOGRAPHY

Students in the College of Liberal Arts may major in geography and earn either a B.A. or B.S. degree. The degree option is offered to enable students with either a social science orientation or science orientation to prepare for the workplace. While core courses are the same for both degree options, students wishing to earn the B.S. degree must meet the minor requirements for the College of Science and take a statistics course. This option is for students wishing to concentrate in such areas as physical geography, conservation, environmental planning, and GIS/remote sensing. Students with a greater interest in human or regional geography will choose the B.A. option. Additionally, all students are required to take Geography 420, the department's capstone course. Geography students have access to the latest technology as well as the traditional foundations and tools to the discipline. Because of our size and the flexibility of our program, geography majors enjoy many unique opportunities to interact with faculty and other students.

The Department's Cartography Lab is equipped with state-of-the-art computers with access to automated cartography/GIS facilities and internet resources. The department also maintains a large Map Library and Physical Geography Laboratory.

Graduates of the program include urban and regional planners, cartographers, environmental specialists, tourism professionals, mineral resource analysts, teachers, historical preservation researchers, and economic development leaders, just to name a few. Many of our majors have secured employment as professional geographers before they graduate. The growing demand for persons with skills relating to the natural environment and economic development, as well as computer cartography and GIS, has enabled the department to place its students successfully in their desired career paths.

HISTORY

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.
Majors must fulfill the general and specific requirements for the B.A. degree in the College of Liberal Arts. When students declare a History major, they must obtain an MUnet computer account by presenting their student ID card to the Computer Center on the 2nd floor of Prichard Hall or to any of the open computer labs on campus. They must demonstrate a proficiency in computer literacy: (1) through examination or (2) through successful completion of a 3 credit course, CSD 101: Computers and Data Processing.

Within the 128 semester hours students must earn for the B.A. degree, the major in History requires 36 semester hours of History, including HST 101, 102, 103, 230, 231, 400. Students must also take at least one course from each group of courses listed below. Twelve hours in History must be in courses above the 200 level.

World-HST 208, 301, 302, 376, 377, 378, 423, 435.

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 and Human Services.

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. Interested students should discuss the MAT with their History advisor so that they can plan their undergraduate program accordingly.

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 nine hours is required beyond the 12-hour sequence. All available conversational courses should be taken. Reading track courses may not be credited to the International Affairs major.

b. The following courses are required:
   Economics 250, 253, and any two of 340, 408, 420 or 460
   Geography 405
   History 103, 331, 404, 405, and any non-American history course
   Political Science 104, 309, 405, 406.

c. The student shall develop a sequence of courses consisting of a minimum of 12 hours from among the following:
   Anthropology 201, 437
   Economics 466, 467
   History 301, 302, 314, 376, 377, 400, 425, 426, 429, 430
   Political Science 333, 407, 408, 409, 410, 411, 415, 422, 423

d. A regional geography course in the area of the student's interest is highly recommended.

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 in either economics, history or political science. They should declare their intent on a form filed with the adviser, at the beginning of their junior year so as to allow space in their schedule to take the departmental capstone course(s) when offered.
JOURNALISM AND MASS COMMUNICATIONS

The W. Page Pitt School of Journalism and Mass Communications offers a Bachelor of Arts Degree in five sequences in the College of Liberal Arts. Students may choose from advertising, broadcast journalism, print journalism, public relations, and radio-television. 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.

Of the 128 credit hours required for the bachelor's degree, students may take a maximum of 38 in journalism/mass communications courses. Additional credit hours in journalism and mass communications may be elected but cannot be counted toward the 128 required for graduation. Of the remaining 90 hours required for graduation, at least 65 must be in the liberal arts and sciences.

In addition to the College of Liberal Arts program, a journalism education major is offered through the College of Education. It prepares students for a two-fold career. Graduates qualify for certification to teach grades 9-12 and are prepared for employment in the news-editorial departments of newspapers.

Special Requirements

Students enrolled in the W. Page Pitt School of Journalism and Mass Communications must pass the language skills test with at least a score of 77 percent or complete JMC 100 with at least a "C" before enrolling in JMC 201. A grade point average of 2.25 in journalism and mass communications and overall is required for graduation. Students must demonstrate keyboard skills of at least 30 wpm during the first week in JMC 201 to remain in the course. JMC majors must pass English 101 and 102 or 201H with a minimum grade of “C.” 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.

Minors

Journalism and mass communications students are required to complete a 15-hour pre-determined minor. A booklet describing approved minors is available in the office of the School of Journalism and Mass Communications.

SEQUENCE REQUIREMENTS

Advertising

Journalism and Mass Communications 101, 102, 201, 241, 245, 382, 383, 385, 402 or 435, 408, 425, 440, and two hours to be selected from any other journalism and mass communications courses at the 300-400 level (total 38 JMC hours). The following non-journalism and mass communications courses also are required: Economics 100 or 150, Psychology 201, History 231, one other U.S. history course, Political Science 307, and Marketing 340.

Broadcast Journalism

Journalism and Mass Communications 101, 102, 201, 231 or 241 or 360, 240, 301, 350, 351, 402 or 435, 440, 450, 460 and two hours to be selected from any other journalism courses at the 300-400 level (total 38 JMC hours). The following non-journalism and mass communications courses also are required: Economics 100 or 150, History 230 and 231, Political Science 104 and 202, and one other Political Science course to be selected from 105, 207, 301, 303, 307, 381, or 436.

Print Journalism

Journalism and Mass Communications 101, 102, 201, 241, 301, 302, 360, 402, 414 or 304 or 430, 440, two to three hours in 470 or in 490 and five to six hours to be selected from any other journalism and mass communications courses at the 300-400 level (total 38 JMC hours). The following non-journalism and mass communications courses also are required: Economics 100 or 150, History 230 and 231, Political Science 104 and 202, Criminal Justice 321, and Geography 100 or 317.
Public Relations

Journalism and Mass Communications 101, 102, 201, 241, 301, 302 or 360 or 432, 330, 402 or 435, 437, 438, 439, 440; and two hours to be selected from any other journalism and mass communications courses at the 300-400 level (total 38 JMC hours). The following non-journalism and mass communications courses also are required: Economics 100 or 150, Political Science 307, one other Political Science course, Psychology 201, Psychology/Sociology 302 or Sociology 200 or Anthropology 201; one of the following: Communication Studies 308, 311, 315, 319, 401, 408, 409; Geography 100 or 317; Accounting 410.

Radio-Television

Journalism and Mass Communications 101, 201, 231, 272-3 (1 hr.), 331, 332, 334 or 434, 412, 432 or 433, 435, 440, 460 and four hours to be selected from any other journalism/mass communications courses at the 300-400 level (total 38 JMC hours). The following non-journalism/mass communications courses also are required: Psychology 201 or Sociology 200 or Anthropology 201; Economics 100 or 150; Geography 100 or 317; Political Science 104 or 105 or 202.

MODERN LANGUAGES

See Foreign Languages.

PHILOSOPHY

A concentration in Philosophy leads to a degree in Basic Humanities.

POLITICAL SCIENCE

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 or politics.

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 and 211. In addition, each major must take at least three courses in any one of the six fields into which political science offerings are divided and at least one course in any three of the remaining five fields. The fields of the political science curriculum with courses in each are as follows:

- American State, Local and Urban Politics: 202, 301, 376, 381, 383, 436, 440, 461.
- Political Theory: 200, 325, 326, 421, 428, 429, 431.

Courses which appear in more than one field may not be counted twice. 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; Communication Studies 310; and English 408.

PSYCHOLOGY

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 applied mental health settings. The course listings below provide suggested course sequences for students with different post-baccalaureate objectives.

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.

B.A. Program in Psychology (33 credit hours in Psychology)

Minimum Requirements for Acceptance as a Major in Psychology (students must apply in the College of Liberal Arts office)

1. Students must complete the following three courses with a grade of "C" or better in each: PSY 201, ENG 101, MTH 121 or higher.
2. At least 6 additional credit hours at the 100 level or above.
3. Marshall and Overall GPA at application for acceptance as a major in Psychology must be at least 2.0.

Required Courses: (21 credits)
1. Introduction to 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.
5. Choose at least one from the Experimental/Biopsychology Perspective: PSY 324, PSY 350, PSY 416, PSY 440.
6. Choose at least one from the Developmental/Individual Perspective: PSY 311, PSY 312, PSY 330, PSY 406.
7. Capstone Course: After consulting with your advisor, choose one of the capstone options. Note that not all will be available every semester, and you may not be able to enroll in your first choice: PSY 456, PSY 457, PSY 460, PSY 470, PSY 471, PSY 499.

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 below are intended to guide the selections of students with specific educational and career objectives.

A. 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.
B. 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. We suggest a minimum of 2 computer courses beyond CSD 101, including PSY 427. Suggestions for minor: Marketing, Management, Safety Technology.
C. 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.
D. Majors who wish to use psychology as a general Liberal Arts degree: Follow requirements and any Minor: whatever interests you, in consultations with advisor.

Remember, a minimum of 33 hours of Psychology is required for the major, but a student may take more hours than that.
RELIGIOUS STUDIES

A concentration in Religious Studies leads to a degree in Basic Humanities.

SOCIOLOGY AND ANTHROPOLOGY

The Department of Sociology/Anthropology focuses on applied sociology and anthropology, especially the analysis of social and cultural issues, policies and trends in Appalachia. We also offer courses in social theory, with an emphasis on inequality. Anthropology majors may participate in a summer field school that provides hands-on experience in archaeological excavation at significant local sites. Sociology majors may be placed in a local community organization or public agency through SOC 470, Sociological Field Experience.

Sociology

Sociology majors must complete 36 hours of course work in sociology, including SOC 200, 344, 345, 360, 375, 401, 475, at least one course in social diversity (SOC 423, 425, 440, 455, or any anthropology course), and at least one course in social institutions (SOC 342, 408, 428, or 450).

In addition, majors must select either the applied or general course of study. The applied option is designed for those who intend to work in settings such as government agencies or community organizations; additional course requirements include SOC 432 or 443 or 464 or 470. The general option is designed for those who intend to pursue a graduate degree in Sociology; students may elect to concentrate in a specific subfield such as social theory or social institutions, or may take courses across the range of the discipline.

Anthropology

Anthropology majors must take 36 hours in anthropology plus SOC 345. All courses in the Core (ANT 201, 304, 322, 333, 343, 443, 451 and 461) must be taken. Two courses each must be selected from the Ethnographic (ANT 426, 430, 437, 441, 455, 470 or 471) and Topical Areas (ANT 323, 324, 340, 360, 370, 405, 427 or 453).

The Women’s Studies Minor

The Women’s Study Minor consists of 12 credit hours in courses designated as Women’s Studies Courses, including regularly offered courses such as Women’s Studies 101 and History of Women in the United States as well as other popular special topic courses such as Geography and Gender and African American Women’s Contributions to West Virginia. The program has the following major objectives:

A. To understand the unique contributions of women of all races, sexual orientations, and classes in a global context.
B. To complement the existing curriculum where systematic attention to women’s experiences and contributions is needed.
C. To encourage students to understand the subjective, gender and culture specific nature of their values, beliefs and customs, and those of others.
D. To understand the historical and contemporary social mechanisms that promote or limit women’s development as full participants in society.
E. To use gender- and culture-inclusive language in written and oral communication, and understand language as a means of liberation or discrimination.
F. To promote the equitable treatment of all members of society.

Women’s Studies Courses

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>WS 101</td>
<td>Introduction to Women’s Studies</td>
</tr>
<tr>
<td>CL 231</td>
<td>Women in Greek and Roman Literature</td>
</tr>
<tr>
<td>HST 250</td>
<td>Women in United States History</td>
</tr>
</tbody>
</table>

156/College of Liberal Arts
JMC 455  Women, Minorities, and the Mass Media
PHL 463  Philosophy of Feminism
SOC 455  Sociology of Sex and Gender

Each semester more regular courses will be added and new special topic courses will be offered. Contact the Women's Studies Coordinator for updated course lists.

PRELAW EDUCATION

Students who plan to prepare for law school may select a major in any discipline that fulfills the general and specific requirements for a baccalaureate degree at Marshall. In developing a prelaw program, the student should be aware of the recommendation of the Association of American Law Schools, which describes the basic skills and insights it believes fundamental to the later attainment of legal competence. These are (a) comprehension and expression in words; (b) critical understanding of human institutions and values with which the law deals; and (c) creative power in thinking. In order to develop these capacities, the Association recommends a prelegal education of the broadest scope. "To accomplish these goals the College of Liberal Arts offers a wide range of prelaw courses. Political science, business, English, economics, history, criminal justice (legal studies), sociology, and others are acceptable majors. Regardless of the area of concentration, the prelaw student should be zealous in the selection of electives that will facilitate critical understanding of economic, political and social institutions. Since a lawyer must be able to communicate effectively, the prelaw student is well-advised to lay special emphasis on communicative skills. Also a knowledge of elementary accounting is desirable and highly recommended.

Finally, the prelaw student should remember that the quality of undergraduate instruction is more important than the subject matter area. The Association of American Law Schools recommends the selection of courses which require the greatest preparation and intellectual discipline. The best trained for law school" states the Association, is the student who has studied under teachers who have inspired, challenged, and pressed him."

All prospective law school applicants should consult early in their undergraduate programs with Dr. Robert W. Behrman, Principal University Prelaw Advisor and Professor of Political Science (Smith Hall 780), for further information and advice. They should register for the October (preferably) or the December administration of the Law School Admission Test and apply for law school admission during the fall of their senior year in college. Full LSAT information and registration materials are contained in the Law School Admission Bulletin, which is available at the Marshall Department of Political Science. The Principal University Prelaw Advisor and other designated prelaw advisors will gladly provide additional information and helpful advice.
College of Science
College of Science

The College of Science was established in 1976 and is comprised of eight academic departments: Biological Sciences, Chemistry, Clinical Laboratory Sciences, Computer Science and Software Development, Engineering, Geology, Mathematics, and Physics and Physical Sciences. Five of the departments are housed in the Science Building, a new building with modern classroom and laboratory facilities. 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, computers and engineering.

MISSION OF THE COLLEGE

The College of Science provides an undergraduate curriculum designed to educate students aspiring to be among the finest scientists and engineers in the 21st Century. 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, internships or clinical practicum. 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.

Programs:

The following programs are available through the departments in the College of Science:

- Biological Science (B.S.)
- Chemistry (B.S., B.S. in Chemistry)
- Computer Science and Software Development (B.S.)
- Cytotechnology (B.S.)
- Engineering (two-year curriculum)
- Environmental Management (in cooperation with Duke University)
- Forestry (in cooperation with Duke University)
- Geology (B.S. and B.A.)
- Mathematics (B.S.)
- Medical Technology (B.S.M.T.)
- Medical Laboratory Technician (A.A.S.)
- Physics (B.S.)

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 under Mission of the University.

Students entering any baccalaureate degree program in the College of Science beginning in the Fall of 1995 will be responsible for meeting the requirements of four Baccalaureate program initiatives approved by the faculty and the university president for all students. These initiatives include Writing Across the Curriculum, Computer Literacy, International and Multicultural Studies, and the Capstone Experience. Students in the College of Science are not required to satisfy the 4-hour Integrated Science and Mathematics initiative. Students are to consult with their academic/program advisor 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 apply for graduation through the office of the Dean.
2. Candidates for graduation must have a quality 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 and F Repeat Rule; exceptions may be allowed by the Department Chairman.

3. A minimum of 128 semester hours of credit is required for graduation.
   Forty-eight hours must be earned in courses numbered 300-499. Courses transferred from two- year or community colleges can not be used to satisfy the upper division requirement.

4. The CR/NC option cannot be used: (1) for any course taken to meet the specific requirements for a B.A. or 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).

5. Candidates must earn at least 12 hours in a minor subject no more than three of which may be chosen from courses in the 100 series. The minor field may be chosen from any department within the university outside of the major department.

6. During the junior year, and no later than the semester in which they have completed 90 semester hours, students should request an evaluation by the Dean’s office to determine if they are making satisfactory progress towards graduation.

Specific Requirements for the B.A. and B.S. Degrees
(Do not apply to Medical Technology, Cytotechnology, Engineering Geology area of emphasis, and Computer Science and Software Development degrees.)

HUMANITIES

I. English 101 and 102, or 201H ..................................................................................... 6 hrs.
   Students who take either 102 or 201H on a CR/NC basis are required to pass the English Qualifying Examination.

II. Foreign Language .................................................................................................... 3-12 hrs.
   Successful completion of 12-hour sequence ending with German 234, Greek 302, Latin 204, French 204 or 264R or Spanish 204 or 264R. Students with previous language experience should consult the prerequisites listed in the Course of Instruction of this catalog to determine the appropriate sequence of courses. International students may satisfy this requirement by consultation with the Department of Modern Languages.

III. Communication Studies ........................................................................................... 0-3 hrs.
     Communication Studies 103, 104H or 305. Communication Studies 103 is not required for students who have had high school speech and who can pass a proficiency exam administered by the Communication Studies Department. Communication Studies 305 is open to juniors and seniors who have not had Communication Studies 103.

IV. Literature ..................................................................................................................... 6 hrs.
    Courses to be selected from the following:
    Classics 230, 231, 232, 233
    English-any 300 or 400 level literature course (ENG 354 does not fulfill this requirement).
    French 317, 318, 401, 402, 403, 404
    German 301, 302, 417, 418
    Latin-any 300 or 400 level course
    Religious Studies 304, 310, 320, 325, 351
    Spanish 318, 319, 321, 402, 403

V. Classics, Philosophy or Religious Studies ................................................................. 2-3 hrs.
   One course to be selected from the following:
   Classics any course except 230, 231, 232, 233
   Philosophy-any course
   Religious Studies-any course except Honors

Marshall University 1997-99 Undergraduate Catalog  College of Science/161
SOCIAL SCIENCES

1. Courses to be distributed in at least three fields from Economics, Geography, History, Political Science, Psychology, and Sociology and Anthropology ................................................. 15 hrs.
   Economics-any course
   Geography 100, 203
   History-any course
   Political Science-any course
   Psychology-any course for which the student has the necessary prerequisite, except 223 and 417.
   Sociology-Anthropology-any course for which the student has the prerequisite except SOC 344, 345 and 445.

SCIENCE AND MATHEMATICS

1. Natural and Physical Sciences ........................................................................................ 12 hrs.
   Courses to be distributed in at least two fields from biological sciences, chemistry, geology and physics.

   II. Mathematics, minimum requirement: Completion of one of the following:
       Mathematics 122, 131, 140, or 225. See individual program descriptions for specific requirements. All students whose Math ACT score is less than 17 are required to take MAT 097. Credit received in MAT 097 cannot be applied toward the 128 hours required for graduation.

ACADEMIC POLICIES

Admission - Regular admission to the university constitutes admission to the College of Science for entering freshman and students transferring from other institutions of higher education. In order to transfer into the College of Science from another college within the university, a student must have a GPA of at least 2.0. Students who do not have a 2.0 GPA but have a quality point deficit of ten or less than 19 may transfer to the College of Science on a probationary status.

For students transferring from another institution into Marshall, the College of Science will permit the application of any appropriate transfer credits accepted by the university to meet general education requirements. For course work to be accepted as fulfilling upper division requirements, that work must have been earned at institutions accredited to offer junior/senior level courses.

Students transferring into the College of Science from another institution must have a minimum GPA of 2.0. Students who do not have the requisite GPA but still wish to pursue degree work at Marshall must appeal this regulation to the Dean in writing prior to full admission to the College of Science.

Probation - If a student's GPA falls below 2.0 (a quality point deficit of -1 or greater), the student is immediately placed on probation and notified of such by mail. A student has a grace period of one academic year during which the GPA must be raised to 2.0 or greater. If the probation cannot be removed within the stated time, the student will be dismissed from the College of Science.

Academic Suspension - College of Science students who accumulate a quality point deficit of 20 or greater are automatically placed on academic suspension and are disallowed from registering for classes at Marshall University for a period of one year. Notification of suspension will be by certified letter. If there are legitimate reasons for the poor performance (poor health, accident, etc.) the suspension may be immediately appealed in writing to the Dean. The appeal should include a clear proposal and plan for removing the deficit. With permission of the Dean, classes may be attended during summer sessions.

BIOLOGICAL SCIENCES

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...
edge 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 which 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 course work in the Department of Biological Sciences. These include 20 hours of core courses, a 2 hour capstone experience requirement (BSC 491) and 18-20 hours of electives chosen under the guidance of the faculty advisor to satisfy one of the following majors: Biology; Botany; Environmental Biology; Microbiology; Physiology/Molecular Biology; Zoology. 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 below:

CORE COURSES: Biological Science 120, 121*, 320, 322, 324 .......................................... 20 hrs.
CAPSTONE EXPERIENCE: Biological Science 491* ............................................................ 2 hrs.
Chemistry 211, 212, 217, 218, 355, 356, 361 ................................................................. 19 hrs
Physics 201, 202, 203, 204 ........................................................................................................ 8 hrs.
Mathematics 132 or 229 or .................................................................................................... 5 hrs.
Two of the following: MTH 122, 130 (or 130E), 140, 225, 229 ............................................. 6-8 hrs.

* Students who earn a grade of A or B in BSC 104 and/or 105 Prior to declaring a Biology Major may substitute these courses for BSC 120 and/or 121. Students must earn a grade of "C" or better in BSC 120 & 121 (B or better in BSC 104, 105) and a "C" or better in CHM 211 and 212 before they can enroll in any upper level BSC course except BSC 227, 228 and 250.

It is the responsibility of each student to consult his/her adviser regarding details of meeting the capstone requirement.

MAJORS

Biology

The biology major is intended for students wanting a broadly based, flexible background in the life sciences. Any BSC course 200 level or above (except 227, 228, 250 or 485-488) can be used to satisfy the minimum of 20 hours of electives.

Botany

A major in botany prepares students who wish to enter graduate programs which emphasize plant biology and it is an appropriate major for those who seek positions in government agencies where a special knowledge of plant science is required. Botany majors must complete a minimum of 20 hours selected from the courses listed below:

BSC 405 - Economic Botany
BSC 415 - Plant Morphology
BSC 416 - Plant Taxonomy
BSC 418 - Mycology
BSC 419 - Plant Anatomy
BSC 420 - Plant Physiology
BSC 421 - Phycology
BSC 430 - Plant Ecology

Environmental Biology

The major in environmental biology offers opportunities for careers in areas such as environmental health, resource management, and basic and applied ecological research. Twenty hours of electives must be selected from the following courses:

BSC 302 - General Bacteriology
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. Twenty hours of electives must be selected from the following courses:

BSC 302 - General Bacteriology
BSC 303 - Readings in Immunology
BSC 418 - Mycology
BSC 421 - Phycology
BSC 424 - Animal Parasitology
BSC 430 - Plant Ecology
BSC 431 - Limnology
BSC 460 - Conservation of Forests, Soil, & Wildlife

Physiology/Molecular Biology

The major in Physiology/Molecular Biology provides preparation for careers in animal physiology, plant physiology, cell biology, medicine and/or medical research. In addition to the biology courses in this major, Introductory Biochemistry (CHM 365) and Introductory Biochemistry Lab (CHM 366), are strongly recommended as supplements. Twenty hours are required from the following courses:

BSC 301 - Vertebrate Embryology
BSC 302 - General Bacteriology
BSC 420 - Plant Physiology
BSC 422 - Animal Physiology
BSC 450 - Molecular Biology
BSC 452 - Molecular Biology Lab Techniques

Zoology

The major in Zoology prepares students who have career or graduate school interests that emphasize animal biology. It is appropriate for those who plan to enter medicine, wildlife biology or related fields. Students may select either Invertebrate Zoology (BSC 212) or Vertebrate Zoology (BSC 214) and at least 8 hours from each of the following blocks:

Block 1: Taxonomy/Ecology
BSC 401 - Ichthyology
BSC 406 - Herpetology
BSC 408 - Ornithology
CHEMISTRY

Courses offered by the Department of Chemistry provide a program of studies 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 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.

Curriculums 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:

A. Science .................................................................................................................. 64 hours
   Chemistry 211, 212, 217, 218, 355, 356, 361, 307 or 358, 345, 448 ................................... 31-35
   Upper division Chemistry electives ........................................................................... 3
   Capstone Experience - Chemistry 491 .......................................................................... 2-4
   Mathematics through 229 or 140 ............................................................................. 3-8
   Physics 201-204 .......................................................................................................... 8
   Science and Mathematics electives .......................................................................... 10-19

B. General Humanities and Social Science Requirements ................................... 42-54 hours
   General Electives from any college .......................................................................... 10-22 hours
Total ...................................................................................................................... 128 hours

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.

B.S. In Chemistry Degree: 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. If the student takes Chemistry 423 (Environmental Analytical Chemistry) and Geology 425 (Geochemistry) as electives in the B.S. in Chemistry program, the American Chemical Society certification will reflect this as a certification of a B.S. in Environmental Chemistry.

The requirements for this degree are:

A. Chemistry ............................................................................................................. 51-52 hours
   Principles of Chemistry 211, 212, 217, 218 ............................................................. 10
   Organic Chemistry 355, 356, 361, 362 .................................................................. 12
   Physical Chemistry 357, 358 .................................................................................... 8
   Analytical Chemistry 345 and either 422, 423, or 426 ........................................... 7-8
Grade Point Average: A grade point average of 2.0 in all required Chemistry courses as well as an overall 2.0 in all Chemistry courses will be required for either degree program.

Computer Skills: Students in either degree program are required to demonstrate their proficiency in the use of computers in chemical applications. This requirement may be met by either passing an exemption exam (given by the department each semester) or by taking CHM 223 or by taking a programming course for a scientifically useful computer language. Any student who fails to pass the exemption exam on the second attempt will be required to fulfill the requirement by completing CHM 223 or an appropriate programming course.

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.

CLINICAL LABORATORY SCIENCES

Associate in Applied Science Degree in Medical Laboratory Technology (MLT)

Bachelor of Science Degree in Medical Technology (MT)

Integrated 2+2 Program:

The CLS integrated curriculum has two degree options: the Associate Degree in Medical Laboratory Technology (MLT) and the Baccalaureate Degree in Medical Technology (MT). Students may choose to earn the associate degree only or to earn both the associate and baccalaureate degrees.

Credit for previous clinical laboratory training or experience may be granted based upon documentation and/or proficiency examination administered by the CLS Department. Should space for students in the hospital setting be limited in these programs, admission to clinical practicum would be competitive based upon grade point average. Names of students qualified but not selected for any practicum rotation will be placed on a waiting list and receive priority in the next rotation.

College of Science general requirements do not apply to these curricula.

Transportation and housing for hospital portions of these programs are the responsibility of the student. Medical insurance coverage is required for hospital rotations. Costs of physical examinations 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 prior to all CLS laboratory courses and clinicals. Arrangements for instruction and vaccinations are made through the CLS Department.

Availability of hospital training sites varies and is not guaranteed.

Prerequisites for CLS courses are strictly applied.

Associate Degree, Medical Laboratory Technician (MLT)

Medical laboratory technicians earn the Associate in Applied Science Degree. The curriculum is designed so that a student may complete the program and become eligible for national certification. A person who has earned the associate degree may later complete the bachelors degree in medical technology.

Technicians are trained to perform approximately 90% of the routine diagnostic work load done
in a clinical laboratory. They generally work under the supervision of a technologist. They collect blood samples by venipuncture and do a wide variety of blood and urine tests using microscopes, spectrophotometers, electronic counters, and other laboratory instruments; they also perform crossmatches, culture pathogenic bacteria, and perform blood clotting tests. Besides working in hospital laboratories, medical laboratory technicians work in doctors offices, clinics, and in industry.

Admission

Entry to the MLT program involves formal application by candidates and competitive selection by an admissions committee. The number of class spaces will be determined annually by the MLT program director, based upon available instructional resources both on campus and in affiliated hospital laboratories. The class limit is approximately 20 per year. Admission of qualified applicants is not guaranteed. Students seeking admission to the MLT program should develop an alternative academic plan in the event that they are not admitted.

Minimum qualifications for admission include an overall grade point average (GPA) of 2.0, completion of at least 18 credit hours of courses in the MLT-MT program curriculum with a minimum 2.5 GPA, including "C" or better grades in BSC 227, CHM 211, CHM 213, and MTH 130 (or higher), or equivalent courses. Applicants who have completed 24 credit hours or more in the MLT-MT curriculum including CLS 100, will receive preference.

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. Transcript review forms and example letters are available at the Clinical Laboratory Sciences Department.

The MLT program admissions committee will review letters of application, college level course work, and letters of reference. The committee will select students to fill available class spaces and develop a ranked waiting list. Letters will be mailed to all qualified applicants by July 15 notifying them of admission status or position on the waiting list.

Students accepted into the MLT program obtain permission to register for the courses CLS 110 and CLS 200 from the MLT program director. Accepted students who are not properly registered or who are absent during the first week of regular classes without prior approval will lose their space to a wait-listed applicant.

Admitted students will be required to attend an instructional program on blood borne pathogens and either begin the Hepatitis B vaccine series or sign a waiver form refusing it prior to admission to CLS courses. Arrangements for instruction and vaccination should be made through the Clinical Laboratory Sciences Department.

Progress 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 110, 210, 220, 255, 270-273) with their class. If a student should not successfully progress with his or her class, that student will be dropped from the MLT program. 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 apply by letter to the MLT program director as described above. Readmitted students may be required to repeat one or more CLS courses or undertake directed independent study.

Hospital clinical practicum

In order to be eligible for hospital training, a student must earn grades of C or better in each CLS course, attain an overall GPA of 2.5 or better in the CLS sequence, and have earned an overall minimum GPA of 2.0. Students should be degree eligible upon completion of the hospital based training.

Two 15-week MLT hospital rotation periods are available, one each in summer and fall terms. The affiliated hospital laboratories include St. Mary's Hospital (Huntington, WV), Cabell Huntington Hospital (Huntington, WV), Thomas Memorial Hospital (South Charleston, WV) and River Valley Health Systems Medical Center (Kirton, OH). Hospital assignments are made by the education coordinator during the course CLS 255. Available hospital clinical rotations will be assigned at the discretion of MLT program officials; student preference and academic achievement will be considered. Housing and transportation are the responsibility of each student.
If there are more qualified students than clinical spaces during any class year, students will be selected for available spaces by grade point average in the MLT-MT curriculum. Those not assigned to clinical rotations will receive first priority in the next available rotation schedule.

**Associate Degree (MLT) Curriculum**

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<th>Second Semester, Spring</th>
<th>Hrs.</th>
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<th>Sophomore Year: (following program admission)</th>
<th>Hrs.</th>
<th>Second Semester, Spring</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester, Fall</td>
<td></td>
<td></td>
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<tr>
<td>Clinical Lab. Sci. 110</td>
<td>4</td>
<td>Clinical Lab. Sci. 210</td>
<td>4</td>
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<tr>
<td>Clinical Lab. Sci. 200</td>
<td>4</td>
<td>Clinical Lab. Sci. 220</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 201</td>
<td></td>
<td>Clinical Lab. Sci. 255</td>
<td>3</td>
</tr>
<tr>
<td>or Multicultural Elective</td>
<td>3</td>
<td>Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>Communication Studies 103</td>
<td>3</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>or International Elective</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td>14</td>
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<table>
<thead>
<tr>
<th>Summer 15-week Clinical Practicum</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>Clinical Lab. Sci. 270</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Lab. Sci. 271</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Lab. Sci. 272</td>
<td>3</td>
</tr>
<tr>
<td>Clinical Lab. Sci. 273</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Total: 71-73 Semester hours

**Medical Technology (MT) Bachelors Degree**

Medical technologists are trained to perform a variety of specialized tests in the clinical laboratory which provide information used by the physician to determine the extent and cause of disease. The tests performed 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 technologists are accorded the status of professionals in the medical team. They often have responsibilities for laboratory sections, exercise independent judgement, and evaluate the work of others.

The first two years of the medical technology program consist of the associate degree MLT program or equivalent. The third year involves completion of science and other university academic requirements. The fourth year, after admission to the MT program (see below), involves one semester of pre-clinical courses on campus and an 18-week semester of daily, full time clinical practice at one or more hospital affiliate laboratories. Clinical affiliates include Cabell Huntington Hospital (Huntington, WV), St. Mary's Hospital (Huntington, WV), and Charleston Area Medical Center (Charleston, WV).

A student who has completed required general studies and prerequisite courses may progress through the CLS sequence for MLT and MT programs consecutively.
Career Opportunities

Most medical technologists are employed in hospital laboratories, while others find employment in physician's offices, the armed forces, and state and federal health agencies. A 1995 survey of 457 Marshall CLS graduates since 1958 showed that 97% took jobs in a clinical laboratory upon graduation. Of the 144 respondents, 73% were currently employed in a clinical laboratory, with 59% employed as full time laboratory scientists. Other job titles reported by CLS graduates were physician or medical student, dentist, physical therapist, nurse, health care computer specialist, hospital administrator, pharmaceutical salesperson, science teacher, housewife, college professor, biomedical researcher, librarian, medical sonographer, attorney, and scientific device reviewer. Several graduates had retired after medical laboratory careers. The number of professional opportunities for medical technologists and other allied health workers has recently begun to decline due to managed care.

Admission

Entry to the MT program involves formal application by the student and competitive selection by an admissions committee. The number of class spaces will be determined annually by the MT program director based upon available resources both on campus and in hospital clinical laboratories. The class limit is currently 10 per year.

Students apply for admission by completing and submitting a transcript review form, two letters of reference, and a letter of application to the MT Program Director. Application materials are available from the MT Program Director. Applications will be accepted between March 1 and May 31 for enrollment in senior CLS courses beginning in the fall semester. Applicants may be required to schedule personal interviews with the selection committee.

Admission is not guaranteed. First priority for available spaces goes to MU students who have completed the MLT program. Transfer students who have earned the associate degree in MLT at another college or university qualify for program admissions, provided that they completed a MLT A.D. program at a NAACLS-accredited program. CLS 255 or other pre-clinical orientation may be required of transfer students who have not worked as a laboratory technician for more than 5 years. Technical medical laboratory training and experience earned through programs not accredited by NAACLS are evaluated on a case-by-case basis. Advanced standing and credit by examination in CLS pre-clinical courses are available to those with previous medical laboratory training and experience.

To be eligible for entry into clinical practicum at affiliated hospitals, students must have a minimum overall 2.0 grade point average, have completed all required CLS technical courses with a minimum grade of "C", have a minimum 2.5 GPA in CLS technical courses, and be otherwise eligible for the degree. Any student who must repeat more than one CLS course in which a grade of W, WP, WF, D, or F was earned may become ineligible for hospital training and readmission to CLS courses.

Admitted students will be required to attend an instructional program on blood borne pathogens and either begin the hepatitis B vaccine series or sign a waiver form refusing it.

College of Science general requirements do not apply to this program. Marshall plan requirements do apply.

Curriculum Bachelor of Science Degree in Medical Technology

<table>
<thead>
<tr>
<th>Summer I</th>
<th>Hrs.</th>
<th>Summer II</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 201</td>
<td>3</td>
<td>Physics 203</td>
<td>3</td>
</tr>
<tr>
<td>Physics 202</td>
<td>1</td>
<td>Physics 204</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hrs.</th>
<th>Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 327 or 355-356-361</td>
<td>5</td>
<td>Biological Science 424</td>
<td>4</td>
</tr>
<tr>
<td>CLS 310 (proposed)</td>
<td>3</td>
<td>Economics 150 or 250</td>
<td>3</td>
</tr>
</tbody>
</table>

Marshall University 1997-99 Undergraduate Catalog
Chemistry 365 or 345 ........................................ 5
Elective .................................................. 3

MTH 225, PSY 223, MGT 218, SOC 345 or EDF 417 ... 3
International Elective .................................... 3

Senior Year

Semester Hrs. Semester Hrs.
Computer Elective .................................. 3
Clinical Lab. Sci. 468 (W) (C) ....................... 2
Clinical Lab. Sci. 450 ............................. 4
Clinical Lab. Sci. 471 ......................................... 9
Clinical Lab. Sci. 460 ............................. 3
Clinical Lab. Sci. 491 ........................................... 3
Clinical Lab. Sci. 464 ............................. 3
Clinical Lab. Sci. 466 ........................................... 3

Total: 130-136 Semester hours including MLT Curriculum

Accreditation

The MLT and MT programs are accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS). Students who complete CLS programs through Marshall University will be eligible for national certification examinations.

COMPUTER SCIENCE AND SOFTWARE DEVELOPMENT

The program provides a comprehensive background in modern computer science, including computer architecture, operating systems, algorithms, and program languages. The B.S. degree program emphasizes the team approach to software development and maintenance. Graduates will find opportunities in industry, business, and government. Within these three entities there are many positions to be filled that require computer skills.

The Department provides:

a. Introductory level education in areas of computer concepts and applications.
b. Specialized and relevant computer courses for Computer Science Majors.
c. Computer courses for a Minor or in support of other Majors.

In support of the Marshall Plan for General Education, students seeking a major in computer science will be guided by the faculty to complete courses in the following:

a. Writing Across the Curriculum (3 hours)
b. International Studies (6 hours)
c. Multicultural Studies (6 hours)

A student seeking a major or minor in Computer Science should plan his/her program with the assistance of a faculty advisor.

B.S. DEGREE PROGRAM

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 119</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 229</td>
<td>5</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 120</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 230</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry and lab</td>
<td>4-5</td>
</tr>
<tr>
<td>or Biology and lab</td>
<td></td>
</tr>
<tr>
<td>or Geology and Lab</td>
<td></td>
</tr>
</tbody>
</table>

* Students taking 4 hours of science will take 1 credit of Independent Study in CSD
### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literature</td>
<td>3</td>
<td>Computer Science 222</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 212</td>
<td>3</td>
<td>Computer Science 240</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 340</td>
<td>3</td>
<td>Mathematics 330</td>
<td>3</td>
</tr>
<tr>
<td>Physics 211 and Lab</td>
<td>5</td>
<td>Physics 213 and Lab</td>
<td>5</td>
</tr>
<tr>
<td>Economics 250</td>
<td>3</td>
<td>Accounting 215</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
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</table>

### Junior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications 305</td>
<td>3</td>
<td>English 354</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 313</td>
<td>3</td>
<td>Computer Science 333</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective</td>
<td>3</td>
<td>Computer Science 338</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 325</td>
<td>3</td>
<td>Computer Science 322</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 445</td>
<td>3</td>
<td>Mathematics 443</td>
<td>3</td>
</tr>
<tr>
<td>Management 320</td>
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<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 495</td>
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<td>Computer Science 496</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective</td>
<td>3</td>
<td>Computer Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
<td>Social Science</td>
<td>3</td>
</tr>
<tr>
<td>Classics/Philosophy/Religion</td>
<td>3</td>
<td>Free Elective</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### CYTOTECHNOLOGY

Cytotechnologists work in hospitals, clinics, and private physicians laboratories. Cytotechnologist stain and analyze body cells under the microscope for visible changes which indicate cancer or infection. Cytotechnologists also learn how to examine chromosomes from human cells to discover inherited disorders.

**Bachelor of Science in Cytotechnology**

Students wishing the degree in cytotechnology complete the first three years of the academic curriculum and then apply for one year (12 months) of hospital-based cytotechnology training. The College of Science General Requirements do not apply to this curriculum. Marshall plan requirements do apply.

The work of the fourth year is at either the Cabell Huntington Hospital (CHH) School of cytotechnology, or the Charleston Area Medical Center School of Cytotechnology, both accredited by the Council on Accreditation of Allied Health Educational Programs in collaboration with the American Society of Cytology. Upon successful completion of the entire curriculum, the student is granted the degree Bachelor of Science in Cytotechnology, and is eligible for certification examinations given by agencies such as the American Society of Clinical Pathologists (ASCP).

**Admission to Hospital Training**

A minimum of 2.5 GPA on the pre-clinical academic program is required for students to be considered for cytotechnology training at an affiliated hospital. Applicants for the final year of cytotechnology training must apply for transcript review by the Clinical Laboratory Sciences Department between January 1 and March 1 the same year.
Names and transcript evaluation of qualified applicants are supplied to the respective hospital schools by the CLS Department, and students are then selected to fill available positions by the joint admissions committee on the basis of grade point average, personal interview and student academic status at Marshall. First preference is given to Marshall University students who have met residence requirements for graduation and who will be degree eligible in cytotechnology upon completion of hospital training, second preference is MU graduates who meet ASC requirements; third preference is undergraduates who meet ASC requirements. ASC requires that cytotechnology students have completed 60 college semester hours which include 20 credit hours of biological science, 8 of chemistry, and 3 of mathematics. Last preference is given to qualified applicants or graduates from other colleges and universities. A waiting list is established using these criteria in case an opening becomes available.

Admitted students will be required to attend an instructional program on blood borne pathogens and either begin the Hepatitis B vaccine series or sign a waiver form refusing it.

Successful completion of the pre-clinical academic program does not automatically admission to clinical studies, since enrollment at the associated hospitals is limited. CHH allocates 4 Marshall student positions per year; CAMC allocates one to three positions.

CHH charges tuition of $1500 for the year of training. CAMC charges $5000 per year. These charges may change. Students with at least 24 credit hours earned at Marshall University may apply for waiver of Marshall tuition for the clinical year.

Individuals seeking certificate training, but not a degree, should contact CHH or CAMC schools directly.

Cytotechnology Curriculum

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101</td>
<td>3</td>
<td>English 102</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science 120</td>
<td>4</td>
<td>Mathematics 130E</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science 227</td>
<td>4</td>
<td>Biological Science 228</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 211</td>
<td>3</td>
<td>Chemistry 212</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 217</td>
<td>2</td>
<td>Chemistry 218</td>
<td>2</td>
</tr>
<tr>
<td>Clinical Lab Science 100</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
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</table>

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Studies 103</td>
<td>3</td>
<td>Technology 201 (or Multicultural Elective)</td>
<td>3</td>
</tr>
<tr>
<td>(or Computer Studies)</td>
<td>3</td>
<td>Physics 203-204</td>
<td>4</td>
</tr>
<tr>
<td>Physics 201-202</td>
<td>4</td>
<td>Biological Science 300</td>
<td>4</td>
</tr>
<tr>
<td>Biological Science 301 or 310</td>
<td>4</td>
<td>Biological Science 121 (or other BSC elective)</td>
<td>4</td>
</tr>
<tr>
<td>Biological Science 424 or 426</td>
<td>4</td>
<td>Elective (International)</td>
<td>3</td>
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<td>Elective</td>
<td>1</td>
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</tr>
<tr>
<td></td>
<td>16</td>
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<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 327</td>
<td>5</td>
<td>Biological Science 322 or CHM 365</td>
<td>4</td>
</tr>
<tr>
<td>(or CHM 355-356-361 sequence)</td>
<td>5</td>
<td>Biological Science 302</td>
<td>4</td>
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<tr>
<td>Biological Science 324</td>
<td>4</td>
<td>Psychology 440</td>
<td>3</td>
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<td>Mathematics 122 or higher</td>
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<td>Elective (International)</td>
<td>3</td>
</tr>
<tr>
<td>Elective (International)</td>
<td>3</td>
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<td>15</td>
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</table>
The CYT clinical curriculum involves 32 credit hours including the following courses:

<table>
<thead>
<tr>
<th>Course:</th>
<th>Hrs.</th>
<th>Course:</th>
<th>Hrs.</th>
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</thead>
<tbody>
<tr>
<td>Cytotechnology 438</td>
<td>4</td>
<td>Cytotechnology 444</td>
<td>3</td>
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<tr>
<td>Cytotechnology 439</td>
<td>3</td>
<td>Cytotechnology 445</td>
<td>3</td>
</tr>
<tr>
<td>Cytotechnology 440</td>
<td>6</td>
<td>Cytotechnology 446 (c)</td>
<td>1</td>
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<tr>
<td>Cytotechnology 441</td>
<td>3</td>
<td>Cytotechnology 447</td>
<td>3</td>
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<tr>
<td>Cytotechnology 442</td>
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<td>Cytotechnology 443</td>
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<tr>
<td>Total:</td>
<td>129</td>
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<td></td>
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</tbody>
</table>

ENGINEERING - PRE-PROFESSIONAL (Two-Year Curriculum)

Marshall University offers a pre-engineering program which consists of the first two years of a professional engineering curriculum. To qualify for admission a minimum Math ACT score of 20 is required.

A structured sequence of engineering courses is offered in conjunction with selected supportive courses from other departments of the university. The engineering courses are general in nature, common to many specialized engineering curricula offered in schools throughout the country.

With the possible exception of chemical engineering, where specialized course work is sometimes offered in the second year, students transferring to professional engineering programs after two years should be able to complete their B.S. requirements in the normal amount of time. Since requirements may vary slightly for different professional schools, students should meet with the pre-engineering advisor early in their program to plan their course of study.

First Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 211 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 217 Chem. Lab. I</td>
<td>2</td>
</tr>
<tr>
<td>ENG 101 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>EG 101 Engr. Graphics</td>
<td>3</td>
</tr>
<tr>
<td>EG 107 Engr. Computations</td>
<td>2</td>
</tr>
<tr>
<td>MTH 229 Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>Elective</td>
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Second Semester

<table>
<thead>
<tr>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-19</td>
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</tbody>
</table>

Electives may be technical or nontechnical, according to the particular requirements of the chosen program.

Second Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 213 Statics</td>
<td>3</td>
</tr>
<tr>
<td>EM 215 Engr. Materials</td>
<td>3</td>
</tr>
<tr>
<td>EG 221 Engr. Economy</td>
<td>3</td>
</tr>
<tr>
<td>MTH 231 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 211 Princ. of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 202 or 212 Physics Lab</td>
<td>1</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 214 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EM 216 Mech. of Deformed Bodies</td>
<td>4</td>
</tr>
<tr>
<td>EM 218 Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MTH 335 Ord. Differential Eq.</td>
<td>3</td>
</tr>
<tr>
<td>PHY 213 Princ. of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 204 or 214 Physics Lab</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>18</td>
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<tr>
<td>19</td>
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</table>
## Second Year
### (Electrical Engineering Majors)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 213 Statics</td>
<td>3</td>
<td>EM 214 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EM 215 Engr. Materials</td>
<td>3</td>
<td>EE 204 Digital Logic Design</td>
<td>3</td>
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<tr>
<td>EE 201 Circuits I</td>
<td>4</td>
<td>EE 202 Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>MTH 231 Calculus III</td>
<td>4</td>
<td>MTH 335 Ord. Differential Eq</td>
<td>3</td>
</tr>
<tr>
<td>PHY 211 Princ. of Physics</td>
<td>4</td>
<td>PHY 213 Princ. of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 202 or 212 Physics Lab</td>
<td>1</td>
<td>PHY 204 or 214 Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

### Second Year
### (Chemical Engineering Majors)

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hrs.</th>
<th>Second Semester</th>
<th>Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 213 Statics</td>
<td>3</td>
<td>EM 214 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>EM 215 Engr. Materials</td>
<td>3</td>
<td>EM 218 Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>CHM 355 Organic Chemistry I</td>
<td>3</td>
<td>CHM 356 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MTH 231 Calculus III</td>
<td>4</td>
<td>MTH 335 Ord. Differential Eq</td>
<td>3</td>
</tr>
<tr>
<td>PHY 211 Princ. of Physics</td>
<td>4</td>
<td>PHY 213 Princ. of Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 202 or 212 Physics Lab</td>
<td>1</td>
<td>PHY 204 or 214 Physics Lab</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

## 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 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 requirement.

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.

ENVIRONMENTAL SCIENCE

The new Bachelor of Science in Environmental Science degree program is a multi-disciplinary program supported by the College of Science, Center for Environmental, Geotechnical, and Applied Sciences, College of Business, and School of Medicine. The degree program provides a broad knowledge of relevant science areas with environmental concentrations in specific disciplines. The Environmental Science degree will prepare students for professional careers including state and federal jobs in natural resource management and environmental protection, and business/industrial jobs in environmental management. It also prepares students for advanced studies in environmental sciences.

The Environmental Science degree consists of a common core of approximately 81 credit hours of science, business, and general education courses, and approximately 48 credit hours in an area of concentration selected by the student for a total of at least 128 semester hours. The exact number of hours in the core and concentration will vary slightly according to the specific courses selected.

The curriculum of the degree program comprises seven sections: I) Orientation to Environmental Science; II) English Composition/Communication; III) Mathematics, Statistics, Computer Science; IV) Humanities and Social Sciences; V) Natural Sciences; VI) Concentration courses; and VII) the Capstone Project. The Capstone Project provides the student an opportunity to apply completed course work to a relevant project, such as the development of an Environmental Impact Statement, this could take the form of either thesis or internship.

Students will be responsible for meeting the following initiatives, as stated in the Marshall Plan, while completing the Environmental Science degree: Writing across the Curriculum; Computer Literacy; International and Multicultural Studies; and the Capstone experience.

Environmental Science majors will comply with the College of Science general requirements. The specific requirements for the B.A. and B.S. degrees do not apply to this degree. Please consult the catalog course descriptions for appropriate course prerequisites.
Concentrations

One concentration with environmental emphasis will be selected by the student from the following areas:

- Biology
- Geology
- Chemistry
- Modeling (in planning)
- Environmental Economics and Environmental Management (in planning)

More detailed descriptions for each of the concentrations are available at the College of Science office and at the Center for Environmental, Geotechnical, and Applied Sciences.

ENVIRONMENTAL SCIENCE CORE COURSES

<table>
<thead>
<tr>
<th>I. Orientation to Environmental Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 100 Introduction to Environmental Science</td>
</tr>
<tr>
<td>ES 200 Environmental Science Seminar I</td>
</tr>
<tr>
<td>ES 300 Environmental Science Seminar II</td>
</tr>
<tr>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>II. English Composition/Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
</tr>
<tr>
<td>ENG 102 (or 201H) English Composition II</td>
</tr>
<tr>
<td>CMM 103 (or 104H) Fundamentals of Speech Communication</td>
</tr>
<tr>
<td>ENG 354 Scientific and Technical Writing</td>
</tr>
<tr>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>III. Mathematics, Statistics, Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 229 Calculus &amp; Analytical Geometry I</td>
</tr>
<tr>
<td>Statistics for Environmental Science - new course</td>
</tr>
<tr>
<td>CSD 203 FORTRAN Programming</td>
</tr>
<tr>
<td>OR CSD 118 C++ Programming</td>
</tr>
<tr>
<td>OR Visual Basic- new course</td>
</tr>
<tr>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV. Humanities and Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECN 200 Survey of Economics OR ECN 250 Principles of Microeconomics</td>
</tr>
<tr>
<td>ECN 405 Environmental Economics</td>
</tr>
<tr>
<td>GEO 320 Conservation of Natural Resources</td>
</tr>
<tr>
<td>PSC 233 Introduction to Public Policy</td>
</tr>
<tr>
<td>Electives History and/or Literature</td>
</tr>
<tr>
<td>Elective Philosophy, Religion or Fine Arts</td>
</tr>
<tr>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

Note: Students must satisfy the University requirements for Writing Across the Curriculum (3 hrs.), International Studies (6 hrs.) and Multicultural Studies (3 hrs.) using Sections I-IV above.

<table>
<thead>
<tr>
<th>V. Natural Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 120 Principles of Biology I</td>
</tr>
<tr>
<td>BSC 121 Principles of Biology II</td>
</tr>
<tr>
<td>CHM 211 Principles of Chemistry I</td>
</tr>
<tr>
<td>CHM 217 Chemistry Lab</td>
</tr>
<tr>
<td>CHM 212 Principles of Chemistry II</td>
</tr>
</tbody>
</table>

176/College of Science

Marshall University 1997-99 Undergraduate Catalog
CHM 218 Chemistry II Lab ................................................................. 2
GLY 200 Physical Geology ............................................................... 3
GLY 210L Earth Materials Lab I ..................................................... 1
PHY 201 General Physics I ............................................................. 3
OR PHY 211 Principles of Physics I (4hrs.) ................................. 3
PHY 202 General Physics Lab I ....................................................... 1

Credit Hours 26-27

Core Credit Hours (Depending on core electives and concentration) 77-82

CONCENTRATION COURSES

VI. Student will select a concentration area .................................... 41-44
VII. Capstone Project (in concentration area): ............................... 4

Total Hours 128

(A minimum of 128 credit hours is required for graduation)

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 quality 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.

GEOLOGY

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 2 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 designed for those who prefer greater curriculum flexibility, are less certain of their career objectives, 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.

The department also 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 course work in math, physics, and engineering, and completion of a senior thesis. By completing this curriculum, candidates would automatically complete the requirements for a minor in engineering.

The department offers local and distant field trips to provide experience in a variety of natural geological settings. A wide range of course work is available which can be tailored to meet specific career tracks. 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 allow students to work part time at the Corps while pursuing their degree. 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 course work with semesters of work experience. Completion of the cooperative program normally takes five years.

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:
- Chemistry 211, 212; labs. 217, 218
- Biology or Physics -4 hrs. -Biological Science 120 or PHY 201-202
- Geology 110 (minimum B grade required) or 200
  210L, 201, 211L, 212, 313, 314, 325, 430, 451, 451L, 491 and/or 492

Additional requirements for the B.A. Degree Program:
- 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.
- Biology or Physics -4 hrs. (Total: 8 hrs.) Biological Science 120 and/or 121 and/or Physics 201-203 and/or 202-204
- Geology 421 or 423; plus an additional 11-12 hours selected from GLY 418, 421, 422, 423, 425, 426, 427, 455 and 455L, 456 and 456L, 457.

Total Geology hours: 47-50, depending on course selection

GLY 485-488 may be substituted for required choices with approval from the Chairman of the Department of Geology. CSD 101 and CSD 118 (or other comparable computer courses) may be substituted for GLY 430 with approval of Department of Geology Chair.

**Credit Hours**

### Requirements for Engineering Geology area of emphasis:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 229, 230, 231</td>
<td>Mathematics</td>
<td>13</td>
</tr>
<tr>
<td>Chemistry 211, 212, 217, 218</td>
<td>Chemistry</td>
<td>10</td>
</tr>
<tr>
<td>Physics 211, 212 (or 202), 213, 214 (or 204)</td>
<td>Physics</td>
<td>10</td>
</tr>
<tr>
<td>Geology 200, 210L, 201, 211L, 212, 313, 314, 325, 430, 451, 451L, 455, 455L, 456, 456L, 457; 421 or 423;</td>
<td>Geology</td>
<td>45</td>
</tr>
<tr>
<td>4 hours from 491 and/or 492</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>General Mechanics 107</td>
<td>General Mechanics</td>
<td>2</td>
</tr>
<tr>
<td>English: 101 &amp; 102</td>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>354</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Communication Studies 103 or 104H or 305 or proficiency</td>
<td>Communication Studies</td>
<td>0-3</td>
</tr>
<tr>
<td>Literature courses to be selected from:</td>
<td>Literature courses</td>
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</tr>
<tr>
<td>Classics 230, 231, 232, 233</td>
<td>Classics</td>
<td>2-3</td>
</tr>
<tr>
<td>English - any 300 or 400 level literature course, except ENG 354</td>
<td>English</td>
<td></td>
</tr>
<tr>
<td>French 317, 318, 401, 402, 403, 404</td>
<td>French</td>
<td></td>
</tr>
<tr>
<td>German 301, 302, 417, 418</td>
<td>German</td>
<td></td>
</tr>
<tr>
<td>Latin - any 300 or 400 level course</td>
<td>Latin</td>
<td></td>
</tr>
<tr>
<td>Religious Studies 202, 304, 310, 320, 325, 351</td>
<td>Religious Studies</td>
<td></td>
</tr>
<tr>
<td>Spanish 318, 319, 321, 402, 403</td>
<td>Spanish</td>
<td></td>
</tr>
<tr>
<td>Classics/Philosophy or Religious Studies</td>
<td>Classics/Philosophy</td>
<td>2-3</td>
</tr>
<tr>
<td>One course to be selected from the following:</td>
<td>Classics/Philosophy</td>
<td></td>
</tr>
<tr>
<td>Classics - any course except 230, 231, 232, 233</td>
<td>Classics</td>
<td></td>
</tr>
<tr>
<td>Philosophy - any course</td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td>Religious Studies - any course except Honors</td>
<td>Religious Studies</td>
<td></td>
</tr>
<tr>
<td>Social Sciences: Courses must be distributed in at least three fields from</td>
<td>Social Sciences</td>
<td>15</td>
</tr>
<tr>
<td>Economics - any course</td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>Geography 100, 203</td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td>History - any course</td>
<td>History</td>
<td></td>
</tr>
<tr>
<td>Political Science - any course</td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td>Psychology - any course with proper prerequisite except 233 and 417</td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td>Sociology/Anthropology - any course with proper prerequisite except SOC 344, 345 and 445</td>
<td>Sociology</td>
<td></td>
</tr>
</tbody>
</table>

A total of 16 hours of engineering course work 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.

The engineering geology area of emphasis will require 4 hours of capstone experience (GLY 491 and/or 492) which will be devoted to a senior thesis or an internship. 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.

### MATHEMATICS

The Department of Mathematics offers a Bachelor of Science degree program which prepares students for careers in the mathematical sciences and related disciplines. The program provides a solid mathematical foundation which enables students to perform successfully in industrial, business or government positions, or in graduate studies in mathematics or related areas such as engineering and economics. It may also be used to prepare for secondary mathematics certification or for professional programs such as law and medicine.

The program requires the following core courses for all majors:

1. The calculus sequence (MTH 229, 230, and 231)
2. MTH 300, MTH 330, and Sophomore Seminar (MTH 301).

Marshall University 1997-99 Undergraduate Catalog
3. MTH 427, MTH 445, and MTH 450
4. CSD 205 (recommended) or CSD 118
5. The capstone experience (MTH 491 - Senior Seminar)
6. A minimum of two electives from the following list:
   - MTH 335, 340, 411, 428, 443, or 446, at least one of which must be MTH 428 or MTH 446.
   - The department also offers an M.A. degree program. Please consult the Graduate Catalog for further details about this program.

Transfer students who wish to major in mathematics must complete at least nine hours of 300-400 level course work at Marshall University.

The American College Test score in Mathematics is utilized for the placement of students. Relevant information regarding such placement is included under prerequisites in Course of Instruction.

A student enrolled in Marshall may receive credit for certain courses in mathematics provided the student successfully completes the appropriate examination of the College Level Examination Program.

Advance 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 referred to the Chairman of the Department of Mathematics for a decision on credit; those who score 3 on AB are given credit for Mathematics 130.

PHYSICS

The Department of Physics and Physical Science offers course work leading toward the B.S. degree in physics. The physics major must complete all College of Science general requirements for the B.S. degree.

The physics major must complete the calculus sequence through differential equations and a minimum of 38 hours of required course work in the major. The completion of the B.S. in physics prepares the graduate to enter graduate school in physics or engineering, medical school or other professional programs, direct employment in government or industrial laboratories, and other technically related fields.

Among the course work options open to physics and other science majors are applied physics courses which emphasize applications of optics (PHY 440), electronics (PHY 430), and radiation (PHY 450) to the medically related fields. The applied radiation course includes laboratory experience at the University of Michigan's nuclear reactor.

Additional related programs within the department lead to an A.B. degree with a specialization in physics and/or general science, and an M.S. degree in physical science.

The physics major working to complete a B.S. degree is required to complete:

1. Physics 211, 202, 213, 204, or equivalent.
2. Physics 300, 302, 320, 330, 331, 431 or 432 *Capstone Courses
3. Ten additional semester hours of 300-400 physics courses selected from the catalog including at least 4 semester hours of advanced laboratory courses (Physics 405, 415, 421, 463).

Majors in physics must demonstrate to the department faculty fundamental skills in utilizing computers, including the ability to interact with a computer, to interface with scientific instruments for data collection, and to apply computer programs to the solution of appropriate physical problems. Students lacking these skills can fulfill this requirement by taking appropriate courses which have the approval of the Department of Physics and Physical Science.

PREPARATION FOR PROFESSIONAL CAREERS IN HEALTH SCIENCES

With the emergence of medicine as a science, and the demand by a modern society for better access to all levels of health care, the challenges presented by a career in the health professions today are both formidable and exciting. The student who is contemplating a career in health sciences is required to have a solid foundation in the natural sciences. As a result, students who plan to study in any of the health professions should include in their high-school subjects one and one-half units of algebra, one unit of geometry, one unit of chemistry, and one unit of physics.
There is no bachelor's degree, as such, granted in pre-medicine or any of the other related health sciences. While most pre-professional students major (i.e. work towards the bachelor's degree) in either chemistry or biological sciences, students may major in virtually any field and still apply to a professional school (dentistry, medicine, etc.). However, it should be recognized that a thorough knowledge of the sciences is needed if one expects to perform satisfactorily on aptitude examinations that must be taken prior to applying for admission to a professional school. Thus the following pre-professional health programs, along with basic course requirements, are outlined for the prospective student. The courses listed under each program are considered minimum requirements, and are usually completed during the first two years of undergraduate work.

**COMBINED COLLEGE AND PROFESSIONAL DEGREES**

The tendency among medical or dental colleges is to require four years of pre-professional preparation, and preference is given to applicants having such preparation.

A student wishing to study medicine or dentistry at a professional school may be granted a leave of absence during the senior year at Marshall University. To secure this leave of absence the student must file a written report in the office of the dean immediately after gaining admission to the professional school and before the termination of course work at Marshall University. Failure to discharge this responsibility voids candidacy for the degree under this program. At the end of the first year in the professional school the student then is eligible for the baccalaureate degree from Marshall University, provided that all requirements for graduation are met except the completion of a major, and that the student can present certification from the professional school that he/she has successfully completed the first year at the professional school, and that a sufficient number of semester hours of good quality work has been completed to total 128 when added to these earned at Marshall.

At least 96 hours of study must have been completed and a quality point average of 2.0 must have been earned by the student at Marshall University. Candidates for the degree must attend the regular Marshall University commencement, or have permission to graduate "in absentia."

As one can see from examining the various pre-professional programs, undergraduate requirements, aptitude testing examinations, application for admission to a professional school, etc. may vary considerably. Therefore, it is strongly recommended that pre-professional students discuss their programs at least once each semester with one of the following members of the Pre-Professional Advisory Committee: Dr. Daniel R Babb, (Chemistry) Co-Chairman, Dr. James E. Joy (Biology) Co-Chairman, Dr. Mary Etta Hight (Biology), Dr. David Mallory (Biology), Dr. E. Bowie Kahle (Biology), Dr. William Westbrook (Sociology), Dr. Ralph Taylor (Biology).

**PRE-PHYSICAL THERAPY**

(Requires completion of a four year BA/BS degree)

Courses:
- Biological Science (BSC) 120, 121, 227
- Chemistry (CHM) 211, 212, 217 and 218
- English (ENG) 101 and 102
- Mathematics (MTL) 130, 122 and 225 or 131 and 225
- Physics (PHY) 201, 202, 203, 204
- Psychology (PSY) 201, 311
- Home Economics 210
- Exams: AHPAT - junior/senior year

Other Courses:
- 12 hours from Art, English Literature, Languages, Music, Philosophy, Religious Studies or Speech (must be distributed in at least three fields); 6 hours from Economics, Geography, History, Political Science, Sociology (Anthropology)

The ability to swim, or courses in swimming, volunteer or work experience in physical therapy.

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*Marshall University 1997-99 Undergraduate Catalog*
PRE-VETERINARY MEDICINE (4 years)

Courses:
- Biological Science (BSC) 120 and 121
- Chemistry (CHM) 211, 212, 217, 218, 355, 356, 361, 365, 366
- English (ENG) 101, 102
- Genetics (BSC) 324
- Mathematics (MTH) 130 and one of the following: 122, 229, 140, or 225
- General Bacteriology (BSC) 302
- Physics (PHY) 201, 202, 203, 204

Exams: MCAT, VAT or GRE and GRE Advanced Biology Section

Other Courses:
- Follow catalog for degree requirements B.S. or A.B.

Recommended Electives:
- BSC 322, CL 200, SOC 200, BSC 301

PRE-OPTOMETRY (3-years)

Courses:
- Biological Science (BSC) 120 and 121
- Chemistry (CHM) 211, 212, 217, 218, also 355, 356, 361
- Social Sciences - Any course (12 hrs.)
- English (ENG) 101 and 102
- Mathematics (MTH) 130 and 122 (and 140 recommended) or 229; 225
- Physics (PHY) 201, 202, 203, 204
- Psychology (PSY) 201

Exams:
- OAT October or March of sophomore year

Other Courses:
- Check carefully catalog of Optometry College. Requirements vary.

Recommended Electives:
- CHM 356, 307; MTH 230, 231; PHY 350, 440; PSY 311 or 440; BSC 302, 310, 315

PRE-PHARMACY (2 years)

Courses:
- Biological Science (BSC) 120 and 121
- Chemistry (CHM) 211, 212, 217, 218 and 355, 356 and 361
- Economics (ECN) 250, 253
- English (ENG) 101 and 102
- Mathematics (MTH) 130, 122 and 140
- Physics (PHY) 201, 202, 203, 204

Exams:
- PCAT November or February of sophomore year

Other Courses:
- 12 hours from Art, English, Literature, Languages, Music, Philosophy, Religious Studies (must be distributed in at least three fields)
- 6 hours from Geography, History, Political Science, Psychology, Sociology/Anthropology

PRE-DENTAL (3 or 4 years)

Courses:
- Biological Science (BSC) 120 and 121
- Chemistry (CHM) 211, 212, 217, 218 and 355, 356 and 361
- Economics (ECN) 250, 253
English (ENG) 101 and 102
Mathematics (MTH) 130 and 122 or 229
Physics (PHY) 201, 202, 203, 204

Exams:
DAT Spring of sophomore year for 3-year students or during junior year for 4-year students

Other Courses:
Follow catalog for degree requirements B.S. or A.B.

Recommended Electives:
ART 101 or EG (General Engineering) 101; BSC 300, 301, 310, 322, 324; CHM 307, 345, 362, 365, 366; CL 200; MTH 230, 231; PHY 350, 450; PSY 311, 408, 440

PRE-MEDICINE (3 or 4 years)

Courses:
Biological Science (BSC) 120 and 121
Chemistry (CHM) 211, 212, and 217, 218 and 355, 356 and 361
English (ENG) 101 and 102
Mathematics (MTH) 130 and 122 or 229
Physics (PHY) 201, 202, 203, 204
Exams:
MCAT Generally during the junior year, however, in some cases the 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 A.B.

Recommended Electives:
BSC 300, 301, 302, 310, 322, 324; CHM 307, 345, 362, 365, 366; MTH 230, 231; PHY 350, 430, 440, 450; PSY 408, 440
Marshall Community and Technical College

The Marshall Community and Technical College (MCTC), an open door institution, primarily serves Cabell, Wayne, Mason, and Putnam Counties by providing educational opportunities to any student who can benefit from instruction, regardless of age or academic preparation. The MCTC curricula reflect the educational and occupational needs of youth and adults, are primarily occupational-technical in nature, and are designed to prepare students for employment. Opened in 1975, the MCTC currently enrolls in excess of 2000 students.

PROGRAMS

The Marshall Community and Technical College programs include the following:

1. Fifteen programs are offered in Allied Health Technology, Business, Computer, Office Technology, Applied Science Technology, Occupational Development Technology and Public Service Technology, plus Emergency Medical Technician. These programs result in an Associate in Applied Science Degree or certificate of proficiency. An Associate of Arts Degree in General Studies is offered as well as a specialization in the Internet.
2. General Studies courses are offered in communication, mathematics, reading, and science which provide a base of learning necessary for success in all program areas.
3. Continuing Education non-credit courses are offered in a wide variety of subjects and can assist participants maintain and/or upgrade particular work-related skills or pursue special interest topics.
4. The Transition Program offers courses which parallel the high school units that comprise Marshall University's baccalaureate admission requirements. Students who want to seek baccalaureate majors but who do not meet the admission requirements are admitted to the MCTC where they can complete the course work that will permit them to transfer into four year programs.

ADMISSION

All persons applying for admission to the Marshall Community and Technical College must submit an application and required credentials to the Office of Admissions at Marshall University. An application fee is also required, and financial aid is available. Correspondence and matters pertaining to admission should be addressed to the following:

Marshall Community and Technical College Admissions
Huntington, WV 25755
Phone: (304)696-3646 or 1-800-642-3437 (in WV)
E-mail: Artrip@Marshall.edu

Director of Admissions - Marshall University
Huntington, WV 25755
Phone: (304)696-3160 or 1-800-642-3463 (in WV)
E-mail: Admissions@Marshall.edu

ADVISING/COUNSELING

The Office of Guidance Services offers free educational, career, and personal counseling to all MCTC students. When entering the MCTC, students are assessed to determine their achievement level in communication, mathematics, and reading so that proper academic advising can take place. Mandatory advising of all MCTC students helps ensure satisfactory progress toward a degree.

NON-COLLEGIATE LEARNING

The faculty at the Marshall Community and Technical College think what a person knows is more important than how it was learned. If a student can demonstrate or document knowledge and
skills reasonably comparable to Community and Technical College courses, equal credit might be awarded. These credits are normally added to the student's transcript after he/she has earned 15 program credit hours from the MCTC with a 2.00 grade point average (GPA). The student should meet with an academic advisor to discuss the non-collegiate learning options.

Whether a student is 18 or 80, there is a place for him/her at the Marshall Community and Technical College. For more detailed information, please see the separate MCTC Catalog.
Graduate School
The Graduate School

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 School has steadily expanded the scope and depth of its offerings and currently lists 34 programs in which the master's degree may be earned: adult and technical education, adult fitness/cardiac rehabilitation, art, biological sciences, biomedical sciences, business and commerce, chemistry, communication disorders, communication studies, counseling, criminal justice, early childhood education, elementary education, secondary education, educational administration, English, family and consumer sciences, forensic science, geography, health and physical education, history, family consumer sciences, journalism, mathematics, music, nursing, physical science, political science, psychology, reading education, safety, sociology, special education, the master of arts in teaching and technology management. Post-master's Education Specialist degrees (Ed.S.) are available in adult and technical education, educational administration, and teacher education. Cooperative programs include a master's in humanistic studies with West Virginia Graduate College, and an Ed.D. in educational administration, with West Virginia University. Marshall also offers the Ph.D. in Biomedical Sciences.

In cooperation with West Virginia Graduate College, Marshall University has established a Center for Environmental, Geotechnical and Applied Sciences which offers master's level work in environmental science and in engineering. The graduate degree is conferred by West Virginia Graduate College but the coursework is available on the Marshall University campus.

As the variety of these programs would indicate, the Graduate School offers the graduate student 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 School is based on a baccalaureate degree from an approved accredited college or university and on the information provided on the Application for Admission form. The GRE or GMAT is an additional requirement.

The GRE and GMAT scores must be sent directly from Educational Testing Service to Admissions, Marshall University. On recommendation by the department chairperson and with the approval of the undergraduate dean and the dean of the Graduate School, 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 less.

Students who want more information about any of the graduate programs should consult the Graduate Catalog or address their inquiries to: Graduate School Office, Marshall University, 400 Hal Greer Boulevard, Huntington, West Virginia 25755-2100. Telephone 696-6606.
School of Medicine
School of Medicine

The School of Medicine offers the degree of Doctor of Medicine.

Established in the mid-1970s, the School of Medicine quickly became a force in improving both health care and educational opportunities for West Virginians. The School's curriculum prepares students for all medical specialties. However, because of the state's continuing shortage of physicians in primary-care specialties (such as general internal medicine and family practice), Marshall particularly emphasizes the special personal and medical skills needed for such fields.

The School is affiliated with the Veterans Affairs Medical Center, St. Mary's Hospital, Cabell Huntington Hospital and University Physicians and Surgeons, the faculty practice group. Through a network of other agreements, the school also provides health care at sites as varied as Huntington State Hospital and small rural clinics.

The result is a dynamic educational setting which exposes students to the full spectrum of medical care. They work in rural outpatient clinics as well as on busy hospital medical and surgical services. They choose from a variety of primary-care and specialty electives at Marshall, at other medical centers, and in numerous overseas locations.

The School of Medicine is accredited by the Liaison Committee on Medical Education of the American Medical Association and the Association of American Medical Colleges.

Information concerning admission may be found in the School of Medicine Bulletin.

The Bachelor of Social Work program is housed in the School of Medicine.

SOCIAL WORK

The B.S.W. degree is a professional degree allowing the student to enter an exciting and growing field. Social workers practice in a variety of settings such as human service 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 Social Work Program is to prepare students for beginning level of practice as social work generalists with an understanding and appreciation of the population and institutions of Appalachia.

Requirements

The Social Work Department is administratively housed in the School of Medicine.

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.

Students should contact the Social Work Department faculty for advisement as early as possible.

Accreditation Status

The Social Work Program is accredited at the BSW level by the Council on Social Work Education.

General Requirements

1. Candidates for graduation must have a quality 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, PSC 202, ECN 250, SOC 200, PSY 201, Math) and the average in Social Work must be 2.5 or higher, and must apply for graduation through the Social Work Department office.
2. Forty-eight hours must be earned in courses numbered 300-499 for all degrees.
3. Candidates for degrees at Marshall University must earn at least 26 hours in the major subject (the B.S.W. degree requires 44 hours of Social Work courses) no more than six of which may be selected from courses in the 100 series. The quality point average in Social Work must be 2.5 or higher.
4. No course in the specific or major requirements for graduation except for practicum courses (SWK 370 and SWK 473) may be taken credit/non credit.
5. Candidates for the B.S.W. degree must satisfactorily complete the university writing requirement consisting of a minimum of one 3 hour writing intensive (WAC) course beyond the ENG 101, 102 requirement.
6. All students must meet the university computer literacy and competency requirement. SWK 340 and 475 meet this requirement for Social Work.
7. All students must meet the university requirement for International Studies which consists of 6 hours of courses which have an “IR” designation.
8. All students must meet the university requirements for multicultural studies which consists of 3 hours of a course designated as “MC”. This course is taken within the existing program requirements.
9. All students must meet the university science literacy requirement which consists of 4 hours of integrated science (ISC) coursework and a mathematics course above MTH 120 (excluding MTH 400 and 401). The math requirement must be met before enrolling in ISC course.
10. During the junior year, and no later than the semester in which they have completed 90 semester hours, students should request an evaluation by the Social Work Department to determine if they are making satisfactory progress towards graduation.
11. All social work majors must have their schedules approved by their faculty advisor before they register for classes.
12. Additional requirements for acceptance into the Social Work Program can be obtained by contacting the Social Work office.

Specific Requirements - B.S.W. Degree

Humanities

I. English 101 and 102 or 201H ................................................................. 6 hours
II. Foreign Languages ................................................................................. 3-9 hours
   Successful completion of 9 hour sequence ending with German 203 or 234, Greek 301, Latin 203, Japanese 203, French 263R or 203, Spanish 263R or 203. Three hours or demonstrated proficiency in sign language may be substituted for 3 hours of the foreign language requirement.
III. Communication Studies ...................................................................... 0-3 hours
    Communication Studies 103, 104H or 305. Communication Studies 103 is not required for students who have had high school speech and who can pass a proficiency exam administered by the Communication Studies Department. Communication Studies 305 is open to juniors and seniors who have not had Communication Studies 103. (Communication Studies 300, 315, 319, 345, 401, 406, and 408 are recommended options for electives.)
IV. Literature ................................................................................................... 6 hours
    Courses to be selected from the following:
    Classics 230, 231
    English - any 300 or 400 level course in literature
    French 317, 318, 401, 402, 403, 404
    German 301, 302, 417, 418
    Latin - any 300 or 400 level course
    Religious Studies 202, 304, 310, 320, 325, 351
    Spanish 318, 319, 321, 322, 401, 402, 403, 406
    (Students should pay close attention to pre-requisites for these courses.)
V. Classics, Philosophy, Religious Studies, Fine Arts .................................. 3 hours
    One course to be selected from the following:
    Classics - any course except 230, 231
Philosophy - any course except 304
Religious Studies - any course except 202, 304, 310, 320, 325, 351
Fine Arts

VI. Social Sciences
A. Sociology 200 ................................................................. 3
B. Psychology 201 ................................................................. 3
C. Political Science 202 ......................................................... 3
D. Economics 250 ................................................................. 3
E. Any other course from Economics, History, Political Science, Psychology, Sociology (except 108), Anthropology, or Geography 100, 203, 206, 302, 305, 309, 315, 317, 320, 401, 402, 403, 405, 408, 410, 412, or 420 ........................................... 3

VII. Science and Mathematics
A. BSC 105 ........................................................................................................ 4
B. One other course designated as “ISC”
C. A math course above MTH 120, 121 (excluding 400 and 401) will satisfy this requirement. Students with a Math ACT of less than 19 should take MTH 120 or 097 before MTH 121 ................................................... 3-6

VIII. Social Work ................................................................. 44
Candidates for the B.S.W. degree are required to satisfactorily complete SWK 203, 310, 312, 320, 322, 330, 332, 340, 370, 473 and 475. Students should pay close attention to prerequisites and co-requisites. For instance, BSC 105, PSY 201, SOC 200, PSC 202 and ECN 250, MTH 121 or above (excluding 400 and 401), ENG 101, 102 are prerequisites to all 300 and 400 level required Social Work courses. SWK 310, 320, 330 and 340 are taken as a block in fall semester, junior year and; 312, 322, 332 and 370 as a block spring semester, junior year. SWK 473 is taken fall semester, senior year and SWK 475 spring semester, senior year. SWK 307 is a recommended elective.

### SOCIAL WORK

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<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>English 101</td>
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<td>Foreign Language</td>
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<td>Classics, Philosophy, Religious Studies, or Fine Arts</td>
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<td>Social Work 307 (elective)</td>
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<td>Economics 250</td>
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<tr>
<td>Social Science Requirement (IR)</td>
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<td>Social Work 320</td>
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<td>Social Work 330</td>
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<td>Social Work 322</td>
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<td>Social Work 332</td>
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<td><strong>Total</strong></td>
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Marshall University 1997-99 Undergraduate Catalog
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School of Nursing
School of Nursing

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 it is an integral part of the academic health sciences at Marshall University. The primary objective of the School of Nursing is to respond to the nursing educational needs in the region. The School offers a Bachelor of Science in Nursing Program and a Master of Science in Nursing Program with two areas of emphasis - Family Nurse Practitioner and Administration. The programs are accredited by the National League for Nursing Accrediting Commission. The School of Nursing also offers a cooperative associate degree program with St. Mary's School of Nursing.

BACHELOR OF SCIENCE IN NURSING PROGRAM

The purpose of the four year baccalaureate program in nursing is to prepare 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, college graduates. Graduates of the program are eligible to take the registered nurse licensing examination. The RN Option Program offers registered nurses the opportunity to expand their roles in professional nursing.

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 should also become responsible members of society, and they are therefore, required to register for courses in general education.

The program includes a clinical practice component which gives students opportunity to apply their nursing theory and skills in caring for individuals, families, groups and communities in clinical health care settings. The program uses Cabell Huntington Hospital, Huntington Hospital, Columbia River Park Hospital, St. Mary's Hospital, Veterans Administration Medical Center and the Health South Huntington Hospital for Rehabilitation for clinical experiences. In addition over 30 other health care agencies such as clinics, doctors' offices, health departments and schools are used for student clinical experiences. All nursing students have clinical experiences with rural and underserved populations as part of the state's initiatives for primary health care. The School of Nursing also offers a concentration to persons desiring school nurse certification.

UNIVERSITY BACCALAUREATE INITIATIVES

Students entering the baccalaureate nursing program are responsible for meeting the requirements of five baccalaureate program initiatives, also referred to as the Marshall Plan. These initiatives include Writing Across the Curriculum, Computer Literacy, International and Multicultural Studies, Mathematics, and the Capstone Experience. These various policies are explained in general terms under the Mission of the University. Students in the School of Nursing are to consult with their advisor for guidance in determining the specific details of meeting these baccalaureate curricular initiatives.

ELECTIVES

Students must complete 6 hours in International Studies, 3 hours in Multicultural Studies and 3 hours of Writing Across the Curriculum prior to graduation. The University will identify courses which fulfill these requirements. If they are not taken as part of the required courses, then this requirement may be met within the 18 hours of electives of basic students and 16 hours of electives for RN Option students. Students are encouraged to take courses which will enhance their professional practice and personal well-being. Faculty advisors can assist in the selection of beneficial courses.

Honors courses may be used to meet the elective requirements. Students should check with the Director of the Honors Program about specific substitutions.
I. BASIC PROGRAM

ADMISSION REQUIREMENTS

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 School of Nursing once per year for the fall semester. Students are selected for fall admission after the January 15 deadline and continuing until all spaces in the class are filled.

Admission Requirements for Freshman Level

This level is for all first time college students and for college students who have completed 12 or more hours of college level work.

1. First time college students must meet the general admission requirements of Marshall University.
2. First time college students or those with less than 12 hours of college credit must have a composite score of 21 or higher on the enhanced 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 course of study.
3. 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 individual courses. Grades and credits from developmental courses are not considered.
4. All School of Nursing freshman students must complete the required courses for the freshman year with a “C” or higher by July 20 and maintain a 2.3 overall grade point average. Students who do not complete these minimum requirements by July 20 (end of first academic year in the nursing program) will be dropped from the School of Nursing and must reapply for admission to the School of Nursing. Grades and credits from developmental courses are not considered.

Admission Requirements for Sophomore Level

This level is for college students who have completed at least 32 hours of college credit hours including the prescribed freshman level courses. Admission at this level is very limited and is based on available space. Applicants at this level must:

1. Meet the general admission requirements of Marshall University.
2. A minimum grade point average of 2.5 or higher.
3. Applicants must also document completion of, or current enrollment in the required courses for the freshman year.

Admission Requirements for Junior and Senior Level

This level is for students who are transferring from a four-year baccalaureate nursing program and who want to receive credit for their previous nursing education. Applicants requesting advance placement to this level must:

1. Meet the general admission requirements of Marshall University.
2. 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.
3. Provide proof of completion of courses required prior to transfer level.
4. Submit a reference from Dean/Director of nursing program.

Admission to this level is based on available space.

APPLICATION PROCESS

Freshman Level Standing

1. Apply for admission to Marshall University.
2. Also apply for admission to the School of Nursing.
3. Submit official transcripts from all schools attended.
   a. High school students should obtain two (2) 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.

b. College students must submit two (2) copies of official 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. Current Marshall students must send one official transcript from all colleges attended to the School of Nursing. College transcripts must include the last semester attended, which for currently enrolled students is the fall semester prior to the application deadline.

**Sophomore Level**
1. Apply for admission to Marshall University if not currently admitted.
2. Apply for admission to the School of Nursing.
3. Submit two (2) copies of transcripts from all colleges attended. Send one copy to the School of Nursing and one to the Admissions Office of Marshall University (does not apply if you are currently admitted to Marshall).
4. Provide verification of current enrollment in required freshman level courses if these have not been completed. Official transcripts must be sent on completion of these courses.

**Junior-Senior Level**
1. Apply for admission to Marshall University.
2. Apply for admission to the School of Nursing.
3. Submit two (2) 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 which describe the nursing courses for which advanced placement is requested.
5. Submit a letter of reference from the Dean/Director of nursing program.

**PROGRAM REQUIREMENTS**

Completion of the BSN program requires the completion of 128 semester hours of credits as specified in the following program of study. Credits and grades from developmental courses are not counted. The following is an example of a possible course of study.

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<th>Hrs.</th>
<th>semester level</th>
<th>Hrs.</th>
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<td>First Semester</td>
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<td>English 101</td>
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<td>English 102</td>
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<td>Mathematics 121</td>
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<td>Sociology 200</td>
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<td>Psychology 311</td>
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<td>First Semester</td>
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<tr>
<td>Nursing 219</td>
<td>3</td>
<td>Second Semester</td>
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<tr>
<td>Nursing 221</td>
<td>5</td>
<td>English 102</td>
<td>3</td>
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<tr>
<td>Family and Consumer Sciences 210</td>
<td>3</td>
<td>Sociology 200</td>
<td>3</td>
</tr>
<tr>
<td>Biological Science 250</td>
<td>4</td>
<td>Psychology 311</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>3</td>
<td>Chemistry 204</td>
<td>3</td>
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<td><strong>18</strong></td>
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<td><strong>16</strong></td>
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<tr>
<td>Second Year</td>
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<td>Second Year</td>
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<tr>
<td>Nursing 318 or Elective</td>
<td>3</td>
<td>Second Semester</td>
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<tr>
<td>Nursing 321 or 322</td>
<td>5</td>
<td>Nursing 319</td>
<td>4</td>
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<tr>
<td>Nursing 323</td>
<td>5</td>
<td>Nursing 322</td>
<td>6</td>
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<tr>
<td>Family and Consumer Sciences 404</td>
<td>6</td>
<td>Electives or</td>
<td></td>
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<tr>
<td>Elective</td>
<td>3</td>
<td>Consumer Sciences 404</td>
<td>6</td>
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<td><strong>18</strong></td>
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<td><strong>16</strong></td>
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<tr>
<td>Third Year</td>
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<td>Third Year</td>
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<tr>
<td>Nursing 318 or Elective or Statistics</td>
<td>3</td>
<td>Second Semester</td>
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<tr>
<td>Nursing 322 or 321</td>
<td>5</td>
<td>Nursing 324</td>
<td>5</td>
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<tr>
<td>Nursing 318 or Elective or Statistics</td>
<td>3</td>
<td>Nursing 324</td>
<td>5</td>
</tr>
</tbody>
</table>

200/School of Nursing
Statistics or 
Family & Consumer Sciences 404 .... 3 
Nursing 423 or 409 or Elective ............ 3
16

Fourth Year
First Semester Hrs.
Nursing 325 ........................................ 5
Nursing 409 or 423 or Elective .......... 3
Nursing 403 or 421 ...................... 3 or 5
Elective ............................................... 3
14 or 16

Second Semester Hrs.
Nursing 403 or 421 ...................... 3 or 5
Nursing 422 .............................................. 5
Nursing 423 or 409 or Elective ........... 3
Elective ..................................................... 3
14 or 16

LICENSURE AS A REGISTERED NURSE

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.

II. RN OPTION PROGRAM

The Marshall University School of Nursing offers an RN Option Program for registered nurses
who have a diploma or associate degree in nursing and wish to earn a baccalaureate degree in nursing.
The curriculum may be completed in two academic years of full-time study or extended up to
five years. Part-time study is recommended for nurses who are working full-time.
Applications for the RN Option Program are processed on a semester basis.

ADMISSION REQUIREMENTS

To be eligible for admission the applicant must:
1. Meet the general admission requirements of Marshall University.
2. Be licensed to practice as a registered nurse in West Virginia.
3. Have completed the following required general education courses or their equivalents with
   a grade of "C" or higher:
   - BSC 227-228, Human Anatomy and Physiology .................................................... 8 hours
   - BSC 250, Microbiology and Human Disease ........................................................... 4 hours
   - FCS 210, Nutrition .............................................................................................. 3 hours
   - SOC 200, Introductory Sociology ........................................................................... 3 hours
   - ENG 101 and 102, English Composition .................................................................. 6 hours
   - PSY 201, General Psychology ............................................................................... 3 hours
   - PSY 311, Developmental Psychology ...................................................................... 3 hours
   - CHM 203, General Chemistry I ............................................................................ 3 hours
   - MTH 121, Concepts and Applications of Mathematics ......................................... 3 hours
   Total semester hours 36 hours
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.

4. Have an overall grade point average of 2.3 or higher on all college work.
5. Provide documented evidence of acceptable clinical nursing performance on form provided by the School of Nursing. Nurses not employed within the past three years will be evaluated individually.
6. Thirty two hours of lower division nursing credits will be awarded to students from non-NLNAC accredited diploma programs upon successful completion of NUR 317. Diploma graduates from programs not accredited by the NLN must successfully pass challenge exams to validate lower division nursing credits.

**APPLICATION PROCESS**

1. Apply to Marshall University on forms provided by the Admissions Office.
2. File, concurrently, a supplemental application to the Bachelor of Science in Nursing Program on form supplied by the School of Nursing.
3. Copies of official transcripts from all colleges or schools attended must be submitted. If these are not already on file at Marshall University, one copy must be submitted to the School of Nursing and one copy must be submitted to the Admissions Office.

**PROGRAM REQUIREMENTS**

In addition to the admission course requirements, the following courses must be completed:
- 35 hours upper division nursing courses
- 9 hours required non-nursing courses
- 16 hours electives

Additional elective credits to meet the 128 hours minimum will vary depending on individual circumstances.

A typical full-time program of study is as follows:

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>First Semester</td>
<td>Hrs.</td>
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<tr>
<td>Nursing 305</td>
<td>4</td>
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<tr>
<td>Nursing 219</td>
<td>3</td>
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<tr>
<td>Nursing 319</td>
<td>4</td>
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<tr>
<td>Elective</td>
<td>3</td>
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<tr>
<td>Statistics</td>
<td>3</td>
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<td><strong>17</strong></td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
<td>Hrs.</td>
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<tr>
<td>Nursing 421</td>
<td>5</td>
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<tr>
<td>Nursing 403</td>
<td>3</td>
</tr>
<tr>
<td>Nursing 409 or 423 or Elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
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<td></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

A minimum of 128 semester hours of credit must be completed to receive any bachelors degree at Marshall University. The hours needed to complete the RN Option are distributed as follows:

202/School of Nursing

Marshall University 1997-99 Undergraduate Catalog
Admission requirements:
36 hours non-nursing courses
32 hours lower division nursing credit
Since undergraduate programs vary in the number of required credits awarded or transferred, additional electives may be necessary to complete the 128 hour requirement.

ACADEMIC POLICIES

1. The School of Nursing reserves the right to require withdrawal from nursing of any student whose health, academic record, clinical performance or behavior in nursing is judged unsatisfactory.
2. 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.
3. 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 Option students may repeat only one nursing course in which a grade of less than "C" is earned.
4. 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.
5. 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 School of Nursing Undergraduate Handbook.
6. No more than 9 hours of electives may be taken on a credit/non-credit (pass/fail) basis.
7. All required nursing courses in the basic and RN Option 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.
8. With the exception of NUR 400, students must be admitted to the SON in order to enroll in classes. Prerequisites are identified in the SON 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.
2. Evidence of current certification in cardio-pulmonary resuscitation must be submitted prior to participation in nursing courses having a clinical component. Contact the School of Nursing for acceptable courses.
3. Due to restricted enrollment in the School of Nursing, 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 School of Nursing. 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 not enrolled in nursing courses.
   c. If a Leave of Absence is approved, the student must consult with his or her advisor to revise the program plan.
   d. Any student who fails to notify the School of Nursing 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.

III. SCHOOL NURSE CERTIFICATION

The School of Nursing offers a concentration to persons desiring school nurse certification. The concentration is available to students in both the basic and the RN Option programs.
Concentration is designed to help students meet the WV Board of Education standards for practicing school nurses. Persons seeking School Nurse Certification must be in good standing in a school of nursing or have a BSN and be licensed as a registered nurse in West Virginia. Individuals selecting this concentration must notify the School of Nursing of their intent as early as possible to receive proper academic advising. It is not necessary to have provisional admittance to the College of Education for the School Nurse Certification.

This concentration is designed to provide the nurse generalist with basic knowledge of school nurse practices. Students who select this concentration will complete several courses from the College of Education as well as a community nursing experience in the public school system.

**ENTRANCE REQUIREMENTS**

1. Evidence of good standing in the School of Nursing or a BSN degree and West Virginia RN license.
2. Completion of PSY 311 - Developmental Psychology or its equivalent with a "C" or higher.
3. A 2.5 grade point average on at least 60 college credit hours.

**CERTIFICATION REQUIREMENTS**

Prior to taking the PPST (Pre-Professional Skills Test), the applicant should complete the following courses. (The PPST is waived for master's prepared students):

- Communication Studies 103, 104H or 305 (Fundamental Speech - Communications) ..... 3 hours
- Curriculum and Instruction 102 (Introduction to Computers in the Classroom) .................. 1 hour
- Educational Foundation 270 Observation (Level 1 Clinical Experience) ................... 0 hours*
- English 101 and 102 (English Composition) .................................................. 6 hours
- Health Education 321 (The School Health Program) ......................................... 3 hours
- Nursing 485 (Independent Study in School Nursing) ....................................... 1 hour*

*A Community Nursing project in a school health setting must be completed in NUR 421 or 485. The student will be expected to show familiarity with all aspects of the role of the school nurse. A School Nurse Performance Assessment will be completed by the student, the school nurse preceptor, and the SON school nurse certification coordinator to verify that the student has met this clinical requirement.

After completing the certification requirements the student must submit an application for a Provisional Professional Temporary Teacher or Service Certificate. This application is available from County Board of Education offices or the College of Education. Certification will be awarded after the following criteria are satisfied.

1. The PPST is successfully completed. (NOTE: This exam is offered at Marshall.) Please contact the College of Education at (304) 696-2857 for information on this exam.
2. Verification by the School of Nursing of completion of the School Nurse Performance Assessment.
3. Verification by the College of Education that the academic requirements have been satisfied.
4. The completed application for professional certification (IPT 20) is submitted to the College of Education Certification Office.

For NUR 485 information contact the School of Nursing at (304) 696-2620.
For certification information contact the College of Education at (304) 696-2857.
To obtain more information and an application write to:
- Bachelor of Science in Nursing Program
- School of Nursing
- Marshall University
- 400 Hal Greer Boulevard
- Huntington, WV 25755-9500
- Telephone (304) 696-6759 E-mail: doersam@marshall.edu

204/School of Nursing
IV. ASSOCIATE IN SCIENCE IN NURSING PROGRAM

The Associate in Science in Nursing Program is a cooperative effort between the Marshall University School of Nursing and St. Mary's School of Nursing. This program may be completed in two academic years and requires 69 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.

General education courses required in the cooperative program are:

- BSC 227, Human Anatomy ......................................................... 4 hours
- CHM 203, General Chemistry I .................................................. 3 hours
- FCS 210, Nutrition ................................................................. 3 hours
- BSC 250, Microbiology and Human Disease ............................... 4 hours
- PSY 201, General Psychology .................................................. 3 hours
- ENG 101 & 102, Composition ................................................... 6 hours
- PSY 311, Developmental Psychology ....................................... 3 hours
- SOC 200, Introductory Sociology ............................................... 3 hours

Forty (40) hours of credit in Nursing are required.

To obtain more information and an application, write to:
St. Mary's/Marshall University
Cooperative Associate Degree Program
2900 First Avenue
Huntington, WV 25702
Telephone (304) 526-1415
Courses of Instruction
Courses of Instruction

College of Business  College of Liberal Arts
College of Education College of Science
College of Fine Arts  School of Nursing

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated by the particular departments or programs, approved by the appropriate academic dean and/or curriculum committee, by the Academic Planning and Standards Committee, and the President.

Before the opening of each semester and prior to the opening of summer terms, 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.

CATALOG TERMS DEFINED

For definitions of terms used in the academic sections of this catalog ("ACADEMIC INFORMATION," "COLLEGE AND SCHOOLS," and "COURSES OF INSTRUCTION"), please turn to "CATALOG TERMS."

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 Practicums and Internships use the following undergraduate course numbers:

- Internship. 290, 490.

ABBREVIATIONS

- PR: Prerequisite
- CR: Corequisite
- CR/NC: Credit/Non-Credit grading. Lecture and laboratory hours per week (e.g. 2 lec-4 lab., two hours lecture and four hours laboratory per week).
- Rec: Recommended
- I,II,S: Offered first semester, second semester, summer.

COURSE DESCRIPTIONS

ACCOUNTANCY (ACC)


216 Principles of Accounting. 3 hrs. I, II, S. Introduction to principles and procedures of double entry accounting records and reports. (PR: ACC 215)

280-281 Special Topics. 1-4; 1-4; hrs.

311 Intermediate Accounting. 3 hrs. I, II, S. Principles and problems of valuation, analysis, and formal presentation of accounting data. (PR: ACC 216)

312 Intermediate Accounting. 3 hrs. I, II, S. Principles and problems of valuation, analysis, and formal presentation of accounting data. (PR: ACC 311)

313 Intermediate Accounting. 3 hrs. I, II. Principles and problems of valuation, analysis, and formal presentation of accounting data. (PR: ACC 312)
Cost Accounting I. 3 hrs. I, II, S.
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 216)

Federal Taxation. 3 hrs. I, II, S.
Problems and procedures of income tax accounting (PR: ACC 216)

Managerial Accounting for Health Care Management. 3 hrs. II.
A study of financial planning and control and discharge of financial management accountabilities in the Health Care Administration sector through problem solving and related functions of Accounting. (PR: ACC 216)

Total Quality Concepts for Accountants. 3 hrs.
A consideration of the accounting principles underlying Total quality. Philosophies, tools and accounting techniques for achieving Total Quality will be covered. (PR: Junior Standing)

Concepts for Registration and Auditing of ISO-9000. 3 hrs. Learn to implement document and audit a quality system for ISO-9000 standards and obtain certification recognized in nearly 90 countries. (PR: ACC 360).

Financial Accounting. 3 hrs. Principles, concepts, and problems underlying the evaluation, recording, analysis and interpretation of accounting data. Required of all MBA candidates who have had little or no undergraduate background in accounting. NOT OPEN TO STUDENTS IN THE COLLEGE OF BUSINESS.

Governmental Accounting. 3 hrs.
A study of the use of accounting information in the financial management of governmental and nonprofit entities. (PR: ACC 216)

Advanced Accounting Problems. 3 hrs. I, II, S.
Selected problems in advanced accounting principles and procedures. (PR: ACC 312)

Controllership. 3 hrs.
A comprehensive study of the controller’s objectives, responsibilities, functions, organizational roles, etc. (PR: ACC 318)

Managerial Accounting. 3 hrs.
The managerial approach to budgetary control. (PR: ACC 318)

Auditing I. 3 hrs. I, II, S.
A study of the theory and procedures of auditing and the legal and social responsibilities of the auditor. (PR: ACC 312)

Auditing Theory and Research. 3 hrs. I, II.
A critical examination of contemporary professional attestation theory and practice including a comprehensive review of AICPA statements on audit procedures. (PR: ACC 429)

Accounting Information Systems. 3 hrs. I, II.
Introduction to accounting systems. Emphasis on concepts of analysis, design, and implementation of accounting systems with attention on internal and audit trails. (PR: ACC 312 and 318)

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)

Accounting Theory. 3 hrs. I, II.
An examination of accounting concepts, standards, conventions, principles and practices with primary emphasis on study of authoritative pronouncements comprising generally accepted accounting principles. Capstone Course (PR: ACC 312, ACC 414)

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.

Independent Study. 1-4; 1-4; hrs.
(PR: Permission of Department)

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 Dean)

ADULT EDUCATION (ATE)

Special Topics. 1-4 hrs.

Introduction to Adult Learning Theory. 3 hrs.
Designed to acquaint the student with the field of adult education and its underpinnings and the various adult learning theories and/or approached.

Marshall University 1997-99 Undergraduate Catalog Courses of Instruction 209
Methods of Teaching Marketing Subjects. 3 hrs.
Unit and lesson planning; cooperative education as a method of instruction, project plan of instruction, classroom management and control, demonstration techniques, evaluation methods, field experience in Marketing Education classroom.

Developing Selling Curriculum. 3 hrs.
Conduct library research, review selling content, select content objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments. (PR: MKE 301)

Administration of Cooperative Programs. 3 hrs.
Administering cooperative education programs, recruiting, and selecting students; selecting training agencies and placing students; conducting public relations activities for the program; and advising the student organization.

Computer Applications in Business and Marketing Education. 3 hrs.
Study of computer applications and software for Business and Marketing Education.

Developing Merchandising/Sales Promotion Curriculum. 3 hrs.
Conduct library research, review merchandising and sales promotion content, objectives, identify content appropriate for the target group, prepare teaching outlines, and design evaluation instruments. (PR: MKE 301)

Principles of Prevocational Exploration. 3 hrs.
Study of the prevocational exploration delivery system and develop instructional units which include goals, objectives, and criteria for evaluation of students.

Practicum in Prevocational Exploration, I. 3 hrs.
Participants make revisions to instructional units, organize a Career Exploration Club and recognize apprenticeship opportunities. (PR: ATE 442)

Practicum in Prevocational Exploration, II. 3 hrs.
Participants modify the 36-lesson plan project, incorporate additional “hands-on” activities, examine teaching strategies, and design activities for community involvement such as an advisory committee. (PR: ATE 444)

Adult Instruction: Design and Evaluation. 3 hrs.
An examination of the design and evaluation processes used in adult learning areas with emphasis on the T&D field as well as the general field.

Practicum in Adult and Technical Education. 3 hrs.
Individually designed field experience under supervision of the faculty; each course related to the student’s future professional role. (GRADING: CR/NC)

Special Topics. 1-4 hrs.

Independent Study. 1-4 hrs.
Focused study of a topic in adult or technical education selected cooperatively by student and faculty advisor; hours credit to be determined by magnitude of the project.

Workshop 1-4 hrs.
A study of practical applications in selected subject areas of Adult/Technical Education (ATE 491, 492; CR/NC, GRADING)

ANTHROPOLOGY (ANT)

Cultural Anthropology. 3 hrs.
Introduction to the scientific study of culture with emphasis on the cultures of small-scale societies.

Special Topics. 1-4; 1-4; 1-4 hrs.
(PR: ANT 201)

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 department.

Physical Anthropology. 3 hrs.
Introduction to physical anthropology (PR: ANT 201)

Archaeology. 3 hrs.
Introduction to the methods and theory of archaeology.

Archaeological Field Training. 3-6 hrs.
Supervised instruction in on-site archaeological data collection, survey and excavation techniques.

Archaeological Analysis. 3 hrs.
Supervised instruction in processing and analyzing archaeological materials recovered by fieldwork.

Linguistic Anthropology. 3 hrs.
Introduction to nonclassical linguistics focused on learning ethnographic interviewing techniques.
340 Folklore. 3 hrs.
Study and analysis of material culture and oral tradition in both literate and non-literate societies. (PR: ANT 201)

343 Anthropological Research. 3 hrs.
Introduction to anthropological research methods. (PR: ANT 201)

360 World Prehistory. 3 hrs.
An introduction to the archaeology of pre-literate cultures, from the emergence of Homo sapiens to the present.

370 Classical Archaeology. 3 hrs.
Archaeology of ancient Greece and Rome, and their colonies and imperial domains.

405 Applied Anthropology. 3 hrs.
Principles of applied anthropology in community development. (PR: Six hours of anthropology and sociology or departmental permission)

426 African Cultures. 3 hrs.
Comparative analysis of the tribal cultures of Africa. (PR: Six hours of anthropology or departmental permission)

427 Ethnic Relations. 3 hrs.
Analysis of cultural contact situations with emphasis on the role of Western European cultures. (PR: Six hours of anthropology or departmental permission)

430 The American Indian. 3 hrs.
Comparative analysis of Indian tribal cultures of the Americas. (PR: Six hours of anthropology or departmental permission)

437 World Cultures: An Anthropological View. 3 hrs.
Anthropological analysis of the major culture areas of the world. (PR: Six hours of anthropology or departmental permission)

441 Oceania. 3 hrs.
Comparative analysis of the original cultures of the Pacific Island area. (PR: Six hours of anthropology or departmental permission)

443 Anthropological Theory. 3 hrs.
Introduction to ethnological theory and to the development of grounded theory. (PR: 6 credit hours of anthropology or Departmental permission)

451 Anthropological Analysis. 3 hrs.
Examination of the analytical procedures utilized in ethnographic and comparative approaches to anthropological data, and an introduction to computer processing of cross-cultural data using the Human Relation Area Files. (PR: ANT 201)

453 Cognitive Anthropology. 3 hrs.
Analysis of the relations between cultural, social, and personality systems. (PR: Six hours of Anthropology or departmental permission)

455 Appalachian Cultures. 3 hrs.
Analysis of the cultures of Appalachia. (PR: Six hours of anthropology or departmental permission)

461 Theory and Analysis in Archaeology. 3 hrs.
An introduction to archaeological theory and its application to the material record of cultures, past and present (PR: 6 credit hours of anthropology or department permission).

470 Appalachian Field Experience I. 3 hrs.
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. (PR: ANT 455 or equivalent)

471 Appalachian Field Experience II. 3 hrs
Supervised field work in an Appalachian community studying the social and cultural characteristics of the area. (PR: ANT 455 and 470)

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: Senior status and 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.

495H-496H Readings for Honors in Anthropology. 2-4; 2-4 hrs.
Open only to Anthropology majors of outstanding ability. (See Honors Courses).

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 department.
ART (ART)

112 Introduction to Visual Art. 3 hrs. I, II, S.
Significance of art in everyday living. (For non-art majors)

113 Art Education: Methods and Media. 3 hrs. I, II, S.
Philosophy and methods of art education for the elementary level; includes laboratory experiences.
For education students.

200 Co-Curricular Experiences in the Visual Arts. 0 hrs.
Students attend distinguished lectures, exhibitions, workshops, field trips, and other co-curricular visual arts events as part of their requirements for graduation. (PR: Art major or Art Ed. Major)

203 Composition, Color and Design In Drawing and Painting. 3 hrs. I or II.
Design elements studied as to their use in conveying compositional ideas and practical use of these ideas and elements in original compositions in a variety of traditional media.

214 Introduction to Design. 3 hrs. I or II.
Basic and related problems in design dealing with the plastic elements-line, color, form, space, and texture.

215 Three-Dimensional Design. 3 hrs. I or II.
Design with emphasis on three-dimensional form. (PR: ART 214)

217 Drawing. 3 hrs. I or II.
Freehand drawing with emphasis on drawing from nature and the posed model, using a variety of media. (PR: Open to art majors and minors only. Others must have the permission of the Chairman of the Department of Art.)

218 Drawing. 3 hrs. I or II.

219 Typography and Computer Skills. 3 hrs. I or II.
This course surveys the origins and use of letterforms, calligraphy, typographic principles, basic computer skills for artists, and layout skills emphasizing conceptual design. (PR: ART 214)

255 Beginning Painting I. 3 hrs. I or II.
Basic techniques using color creatively based on an understanding of visual structural elements; various media including water, acrylic and oil based paints. (PR: 203)

256 Beginning Painting II. 3 hrs. I or II.
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 255)

270-272 Practicum. 3; 3; 3 hrs.

280-283 Special Topics. 1-4; 1-4; 1-4 hrs.
To be used for experimental courses. By permission only.

299 Freshman Portfolio Review. 0 hrs.
Students exhibit work from freshman courses (Art 203, 214, 215, 217 and 218) for review by Art faculty. Review date announced at beginning of semester (see departmental requirements. PR: Art 203, 214, 217).

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. I or II or S.
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)

305 Ceramics. 3 hrs. I or II, S.
Search for form and personal expression through clay. Emphasis on handbuilding techniques, decorative processes and glaze application.

306 Design in Metal. 3 hrs. I or II or S.
Advanced design in metal. Emphasis on copper, silver, pewter, brass. Problems involve soldering, enameling, and shaping metal by hand.

307 Sculpture. 3 hrs. I or II or S.
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. I, II, S.
The student will demonstrate the ability to carry through the entire process for planning, though warping, threading, and weaving. Each will create unique art works while developing traditional technical skills.

309 Advanced Sculpture. 3 hrs. I or II.
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)
Graphic Design: Studio Skills. 3 hrs. I or II.
Practical studio skills: specifying type, photographic and airbrush techniques and preparation of mechanicals. Also, designer's relationship to agencies, clients, printers, and other professionals. (PR: 219)

Graphic Design I. 3 hrs. I or II.
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 JRN majors - JRN 241, MKT 341)

Photography. 3 hrs. I, II or S.
Introduction to techniques and aesthetics of photography as a fine art.

Graphic Design II. 3 hrs. I or II.
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)

Illustration. 3 hrs. I or II.
Conceptual and technical development of illustrations for editorial and advertising purposes. (PR: ART 218, 256)

Silk Screen Printmaking. 3 hrs. I or II or S.
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)

Collagraphs. 3 hrs. I or II or S.
Printmaking using the collagraph plate or matrix, an additive method that employs both intaglio and relief techniques. (PR: 301 or permission of chair)

35mm Slide Photography. 3 hrs. I or II or S.
Photographic composition, color, and creative pictorial vision along with camera controls are explored through making 35mm slides. (PR: ART 315 or Journalism 360 or 230)

Advanced Black and White Photography. 3 hrs. I or II or S.
Further exploration of aesthetics and techniques of black and white photography including the Zone System, with emphasis on personal vision, technical mastery and historical perspective. (PR: ART 315 or Permission of Instructor)

Color Photography. 3 hrs. I or II or S.
Color imaging explored through the medium of the color print. (PR: ART 323 and 324)

Cast Metal Sculpture. 3 hrs. I or II.
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)

Carved Sculpture. 3 hrs. I or II.
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)

Welded Sculpture. 3 hrs. I or II.
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)

Art Education: Crafts. 3 hrs. I, II or S.
Philosophy and methods of art education supplemented by laboratory experiences featuring crafts for students in early childhood and elementary education. 1 lec-3 lab. (PR: ART 113)

Technologies for Art Education Majors. 3 hrs. I or II or S.
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)

Introduction to the Potter's Wheel. 3 hrs. I or II.
Basic throwing skills, surface enrichment and glaze application emphasized. Design analysis and production of functional form stressed. (PR: ART 305)

Primitive Ceramic Techniques. 3 hrs. I or II.
The study of local clay preparation and primitive firing and decorating techniques. (PR: ART 305)

Problems in Porcelain. 3 hrs. I or II.
The formulation and use of porcelain in the production of utilitarian and sculptural form. (PR: ART 305, 343, 344, 446 and 448)

Watercolor Painting. 3 hrs. I or II or S.
Watercolor medium in expressing still life, landscape, and the human figure. (PR: ART 203 and 218)

Advanced Watercolor. 3 hrs. I or II.
Advanced exploration of watercolor, inks and other fluid media. Emphasis will be on experimental methods and personal originality. (PR: ART 350)
Painting III. 3 hrs. I or II or S.
Continued development for the intermediate level painter with emphasis on techniques and form, including varied supports, grounds, mediums such as encaustics, synthetic resins, egg tempera, acrylics and oils. (PR: ART 256)

Mold Making and Casting. 3 hrs. I or II.
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)

Practicum. 3; 3; 3 hrs.
Professional Practice for Visual Artists. 1 hr. I.
Skills for professional artists. Topics: proper presentation of work, self-promotion, pricing, grants, museum and gallery practices, and legal concerns related to fine and commercial art. Required for Art BFA majors. (PR: Junior standing or permission of Chairman)

History of Art. 3; 3 hrs. I, II.
A survey of the development of architecture, sculpture, painting, and the minor arts to ca. 1400 A.D. to the present. (PR: ART 401 - ART 112 or F.A. 101 or permission of department. PR: ART 402 - ART 401 or permission of department)

Iconography of Mary. 3 hrs. I or II or S.
Traces the sources and evolution of Catholic doctrine and images of the Virgin Mary.

Art in America. 3 hrs. I or II or S.
A survey of the development of architecture, painting, and sculpture from colonial times to the present. (PR: ART 112 or FA 101 or permission)

Figure Drawing. 3 hrs. I or II or S.
Practice in drawing from the posed human figure. (PR: ART 217 and 218)

Tribal Art. 3 hrs. I or II or S.
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. (PR: ART 112 or FA 101 or permission of department)

Art of the Ancient World. 3 hrs. I or II or S.
History of the visual arts and architecture in ancient Mesopotamia, Egypt, Greece and Rome.

19th Century Art. 3 hrs. I or II or S.
A survey of the development of architecture, painting, and sculpture in the Western World during the last century. (PR: ART 402 or permission of department)

20th Century Art to World War II. 3 hrs. I or II or S.
A survey of the development of architecture, painting and sculpture in the Western World from 1900 to World War II. (PR: ART 402 or permission of department)

20th Century Art After World War II. 3 hrs. I or II or S.
A survey of the development of architecture, painting and sculpture in the Western World from World War II to the present. (PR: ART 402 or permission of department)

The Art of the Renaissance in Italy and Northern Europe. 3 hrs., I, II, or S.
The course discusses the art of the Renaissance in Italy and Northern Europe within the context of social, political, theological and philosophical developments. (PR: ART 402 or permission of department)

Figure Sculpture. 3 hrs. I or II.
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)

Advanced Drawing. 3 hrs. I or II.
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)

Spinning, Dyeing and Tapestry. 3 hrs. I or II or S. Basic procedures in hand spinning, dyeing and tapestry weaving. (PR: ART 308)

Woven Textile Design. 3 hrs. I or II.
Woven textile design for possible commercial production, emphasizing creation of numerous fabric samples and limited amounts of yardage. (PR: ART 308)

Functional Weaving Design. 3 hrs. I or II.
Production of finished woven domestic items and apparel which have immediate function. Involves the study of historical models of woven goods and their possible contemporary use. (PR: ART 308)

Textiles Fiber Art. 3 hrs. I or II.
Fibers as a medium for self expression and the exploration of structure, space, color and form for meaning. (PR: ART 308)

Studio Photography. 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 323 and 324)
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)

Photographic Portfolio/Exhibit. 3 hrs.
Continued development of creative work with emphasis on preparation of portfolio and exhibition. (PR: ART 426)

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)

Advanced Problems in Illustration. 3 hrs. I or II.
Continued development of illustration with emphasis on personal style. (PR: ART 317)

Monumental Sculpture. 3 hrs. I or II.
Emphasis will be on the planning and production of fountains, architectural reliefs and other large environmental sculptures. (PR: ART 215, 307)

Mixed Media and Assemblage Sculpture. 3 hrs. I or II.
Combinations of found, fabricated and mixed materials will be assembled into original sculpture compositions. (PR: ART 215, 307)

Papermaking/Bookbinding. 3 hrs. I or II, S. 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.

Graphic Design for Corporate Identity. 3 hrs. I or II.
Application of graphic design, including typography, photography and illustrations in developing and implementing identity systems. (PR: ART 316)

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)

Combined Ceramic Processes. 3 hrs. I or II.
Exploration of a variety of ceramic building and firing processes such as hand building, wheel and slip casting. (PR: ART 305, 343)

Ceramic Materials and Processes. 3 hrs. I or II.
Practical and empirical investigation of ceramic materials, techniques and approaches to their use in clay and glazes. (PR: ART 305)

Ceramic Sculpture. 3 hrs. I or II.
Contemporary ideas and techniques of ceramic fired and unfired sculpture. (PR: ART 305, 344)

Two and Three Dimensional Design for Fabrics. 3 hrs. I or II.
Exploring the potentialities of fabric as an art experience in two and three dimensional art form.

Advanced Ceramics. 3 hrs. I or II.
The advanced student will explore individual problems and interests in clay. (PR: all proceeding ceramic numbers)

Three Dimensional Graphic Design. 3 hrs. I or II.
Graphics for display design and packaging. (PR: ART 215, 316)

Electronic Media in the Visual Arts. 3 hrs. I or II.
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)

Designing for Multimedia. 3 hrs. I or II or S.
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)

Painting: Acrylic and Oil. 3; 3 hrs. I or II or S.
Study and practice of painting in expressing still life, landscape, and the human figure. (PR: ART 256)

Advanced Problems in Painting. 3 hrs. I or II or S.
Refinement and development of individual concerns with content, form and techniques in painting. (PR: ART 456)

Art Education: History and Philosophy of Art Education. 3 hrs. I.
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)

Advanced Intaglio Printmaking. 3 hrs. I or II, S.
Development of individualized form using intaglio techniques and incorporating multiple colors, plates, assemblages, collagraphs, photo-etching, and mixed media. (PR: ART 301)
Lithography. 3 hrs. I or II, S.
Basic techniques of hand lithography, both stone and metal plate. (PR: ART 301)

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.

Practicum. 3; 3; 3 hrs. I, II, S.
To be used for learning activities that involve the application of previously learned processes, theories, systems or techniques.

Advanced Studio Sequence. 3; 3; 3; 3 hrs. I, II, S.
To be used to complete studio specialization and may be repeated. By permission only.

Special Topics. 1-4; 1-4; 1-4 hrs. I, II, S.
To be used for experimental courses. By permission only.

Independent Study. 1-4; 1-4; 1-4 hrs. I, II, S.
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.

Apprenticeship/Field Training. 1-3 hrs. I, II.
Student is placed in a supervised work situation offering the opportunity to perform professional design work. At this time a proper portfolio and resume are produced and presented for graduation. (PR: permission of department)

Teaching in the Art Opportunity Program. 1 hr. II.
Approaches to teaching art at the elementary level; practical experience teaching in the Art Opportunity Program. (PR: ART 113)

Senior Capstone Project
Students document and exhibit their production from courses completed during their senior year in their area of concentration. The exhibition should result from their academic as well as studio study. (PR: ART 390 for B.F.A. students. Not required of Art Education majors)

ART EDUCATION
(Listed under Art)

BIOLOGICAL SCIENCES (BSC)

Introduction to Biology. 4 hrs. I, II, S.
Fundamentals of biology with emphasis on the unity of life, energetics, genetics and the world of living things. Intended for non-science majors. 3 lec-2 lab.

Introduction to Biology. 4 hrs. I, II, S.
Biological principles of structure and function in plants and animals with emphasis on human physiology, evolution and ecology. Intended for non-science majors. 3 lec-2 lab. (PR: BSC 104, non-major)

Principles of Biology. 4 hrs. I, II, S.
Study of basic biological principles common to all organisms through lecture and laboratory activities. Intended for science majors and pre-professional students. 3 lec-2 lab.

Principles of Biology. 4 hrs. I, II, S.
A continuation of the study of basic biological principles common to all organisms. Intended for science majors and pre-professional students. 3 lec-2 lab. (PR: BSC 120)

Invertebrate Zoology. 4 hrs. I, II, S.
Classification, structure and relationships of the important animal phyla. 2 lec-4 lab. (PR: BSC 120, 121, or equivalent)

Vertebrate Zoology. 4 hrs. I.
A survey of the seven living classes of vertebrates emphasizing aspects of ecology, physiology, natural history and taxonomy (PR: ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)

Human Anatomy. 4 hrs. I, II, S.
Principles of gross and microscopic anatomy of human body systems and their development. Open to candidates in BSN program. 3 lec-2 lab: ACT composite 19 or higher or 12 hrs. college credit, 100 level or above with minimum GPA of 2.3)

Human Physiology. 4 hrs. II, S.
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. 3 lec-3 lab. (PR: BSC 227, CHM 203-204 or equivalent)

Microbiology and Human Disease. 4 hrs. I, II, S.
Introduction to microbiology with emphasis on the role of microorganisms in the disease process (PR: BSC 227 or equivalent)
300  Histology. 4 hrs. II.
Microscopic study of vertebrate tissues. 2 lec-4 lab. (PR: BSC 120, 121 or equivalent)

301  Vertebrate Embryology. 4 hrs. I.
Vertebrate development based chiefly on frog, chick and pig embryos. 2 lec-4 lab (PR: BSC 120, 121 or equivalent)

302  General Bacteriology. 4 hrs. I, II.
Basic microbiological techniques, fundamental principles of microbial action, physiological processes, immunology, serology, disease process. 2 lec.-4 lab. (PR: BSC 120-121 or equivalent, or one year chemistry)

303  Readings in Immunology. 2 hrs. I, II.
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 302)

310  Comparative Vertebrate Anatomy. 4 hrs. I, II.
Structure, function and relationships of systems of selected vertebrates with an emphasis on embryology and evolution. 2 lec.-4 lab. (PR: BSC 120, 121 or equivalent)

320  Principles of Ecology. 4 hrs. I, II, S.
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 120 and 121 with grade of C or better, or equivalent)

322  Principles of Cell Biology. 4 hrs. I, II, S.
A fundamental approach to the principles of cell biology covering general cellular structure and function, organelles, intercellular interactions, molecular interactions, and modern cellular and molecular methods. 3 lec.-3 lab. (PR: BSC 120 and 121 with grade of C or better, or equivalent. CHM 355 recommended)

324  Principles of Genetics. 4 hrs. I, II, S.
The fundamental principles and mechanisms of inheritance. 3 lec-3 lab. (PR: BSC 120 and 121 with grade of C or better, or equivalent. CHM 355 recommended.)

401  Ichthyology. 4 hrs. II.
Anatomy, physiology, ecology, zoogeography, economic importance and classification of major groups and representative local species of fishes. 2 lec-4 lab and field. (PR: BSC 120, 121; BSC 214 or 310)

405  Economic Botany. 3 hrs. I, II.
Plants used by man for food, ornamental purposes, building materials, textiles and other industrial purposes; economic importance of conservation. No laboratory. (PR: BSC 120-121 or equivalent)

406  Herpetology. 4 hrs. II (Alternate years).
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 120, 121 or equivalent. REC: BSC 214)

408  Ornithology. 4 hrs. II (Alternate years).
An introduction to avian biology: identification, distribution, migration, and breeding activities of birds. 2 lec.-4 lab. (PR: BSC 120, 121 or equivalent)

409  Mammalogy. 4 hrs. I (Alternate years). A study of the structural features, evolution and classification of mammals; other topics will include ecology, zoogeography, behavior, reproductive strategies, physiological adaptation to extreme environments and economic aspects. 2 lec-4 lab. and field. (PR: BSC 120, 121; BSC 214 or 310)

413  Principles of Organic Evolution. 3 hrs. II.
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: 16 hours Biological Science)

414  Entomology. 4 hrs. I.
Anatomy, classification, life histories and economic importance of representative insects. 2 lec-4 lab. (PR: BSC 120-121 or equivalent)

415  Morphology of Plants and Fungi. 4 hrs. I, II, S.
Characteristics of the major plant groups. Discussion of important steps in the development of plants. 2 lec-4 lab. (PR: BSC 120-211 or equivalent)

416  Plant Taxonomy. 4 hrs. I, II, S.
Recognition of our native seed plants and ferns. 2 lec-4 lab. (PR: BSC 120-121 or equivalent)

418  Mycology 4 hrs. I. (Alternate years)
Nature, cause and control of plant disease. 2 lec-4 lab. (PR: BSC 120-121)

420  Plant Physiology. 4 hrs. II. (Alternate years)
Experimental study of plant life processes to include applicable biophysical and biochemical principles. 3 lec-3 lab. (PR: BSC 120, 121)
421  Phycolopy. 4 hrs. II. (Alternate years)
Morphology, taxonomy, and techniques used in the study of fresh-water algae with emphasis upon
applications of ecological principles to current water quality problems. 2 lec-4 lab. (PR: BSC 120-
121 or equivalent)

422  Animal Physiology. 4 hrs., I.
Physiological principles operating in the organ systems of vertebrate animals. 3 lec.-3 lab. (PR:
BSC 105 or 121)

424  Animal Parasitology. 4 hrs. I, II, or S.
Morphology, life histories, classification, and host relationships of common parasites. 2 lec-4 lab.
(PR: BSC 212)

426  Medical Entomology. 4 hrs. I, II, or S.
Role of certain insects and other arthropods in the transmission of disease organisms and methods
of control. 2
BSC 105 or 121) lec.-4 lab. (PR: BSC 212)

430  Plant Ecology. 4 hrs. II.
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.

431  Limnology. 4 hrs. I.
Study of inland waters; ecological factors affecting lake and stream productivity and various aquatic
communities. (PR: BSC 120-121 or equivalent; REC: BSC 212)

442  Advanced Microbiology. 4 hrs. I.
An advanced treatment of microbiology with emphasis on the molecular aspects of anatomy, taxon-
yomy, and physiology of microorganisms. 2 lec.-4 lab. (PR: BSC 302)

450  Molecular Biology. 3 hrs., II.
Advanced principles in molecular function emphasizing current research using recombinant DNA
methodology. (PR: BSC 322 or equivalent)

452  Molecular Biology Lab Techniques. 2 hrs., II.
Current techniques in molecular biology with focus on recombinant DNA methodology. (PR: BSC
322 or equivalent; CR: BSC 450 or BMS 600)

460  Conservation of Forests, Soil, and Wildlife. 3 hrs. I.
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
105 or 121)

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 or internship. Must be approved by Biological
Science Faculty. (PR: Junior/Senior Status)

BUSINESS EDUCATION (BE)

305  Office Machines/Quantitative Applications. 3 hrs. I.
Designed to develop proficiency of business math applications on calculators, and to provide experi-
ence with duplicating and machine transcription machines. (PR: OT 113 or equivalent)

325  Communications for Business and Industry. 3 hrs. I, II.
Emphasis is placed on the composition of effective business correspondence, writing business re-
ports, making oral presentations, and developing proper procedures and skills necessary for con-
ducting meetings. (PR: OT 113 or equivalent)

421  Office Management. 3 hrs. I, II.
Principles and practices, approached from the viewpoint of the office manager, through oral and
written problems.

480-483 Special Topics. 1-4 hrs.
Study of an advanced topic not normally covered in other courses. Office Administration majors
only, with permission of professor.

485-488 Independent Study. 1-4 hrs.
495H-496H Readings for Honors in Business Education. 2-4; 2-4 hrs.
Open only to students of outstanding ability. See Honors Courses.
CHEMISTRY (CHM)

(The Department of Chemistry is approved by the Committee on Professional Training of the American Chemical Society.)

190H-191H Honors in Chemistry I, II; 1 hr.

Independent study programs for outstanding students. (PR: Permission of the department chairman)

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. (CR: CHM 217; PR: MTH ACT of 18 or better or MTH 120 or equivalent)

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; CR: CHM 218)

215 Environmental Chemistry. 2 hrs. I, S.

A study of experimental problems in the detection and measurement of common chemicals. Emphasis is on problems of air and water pollution, with some attention to problems in consumer chemistry. One of the three courses 215, 217, 218 which may be selected to meet the two-course laboratory requirement for introductory Chemistry. 2 lab-1 lec.

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). 2 lab.

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)

223 Computer Applications in Chemistry. 2 hrs.

Introduction to the use of computers in chemistry. Includes the use of computers for chemical calculations and the interfacing of computers to laboratory equipment. 1 lec. 2 lab. (CR or PR: CHM 212)

280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

290H-291H Honors in Chemistry I, II. 1; 1 hr.

Independent study programs for outstanding students. (PR: Permission of the department chairman)

305 Chemical Information Retrieval. 1 hr., I.

A survey course concerning the use of the chemical literature with emphasis on on-line computer searching. (PR or CR: CHM 365)

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: CHM 212, MTH 131 or 140)

327 Introductory Organic Chemistry. 5 hrs. I.

A short study of organic chemistry with emphasis on structure, nomenclature, and reactivity. Designed for students who do not require the full-year course in organic chemistry. 3 lec., 3 lab. (PR: CHM 212)

331-332 Chemistry Seminar. Credit. I, II.

A graduation requirement for all juniors seeking the B.S. in Chemistry degree. 1 lec.

345 Introduction to Analytical Chemistry. 4 hrs. I, S.

Introduction to the basic principles of Analytical Chemistry including traditional wet methods and contemporary instrumental methods of chemical analysis. (PR: 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; applications 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)

Marshall University 1997-99 Undergraduate Catalog Courses of Instruction/219
357 Physical Chemistry I. 4 hrs. I.
A systematic study of physical chemistry. 3 lec.-2 lab. (PR: CHM 212, eight hours of Physics, 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)

362 Intermediate Organic Chemistry Lab. 3 hrs. I.
Applications of modern experimental methods to the synthesis and analysis of organic compounds with emphasis on instrumental techniques. 6 lab. (PR: CHM 356 and 361; CR or PR: 305)

365 Introductory Biochemistry. 3 hrs. II, S.
A survey course including introduction to basic biochemical concepts, metabolic pathways, and bioenergetics. 3 lec. (PR: CHM 327 or 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 or CR: CHM 365)

390H-391H Honors in Chemistry. 1; 1 hr. I, II, S.
Independent study programs for outstanding students. (PR: Permission of department chairman)

401 Research for Undergraduates. 2 hrs. I, II, S.
(PR: Permission of instructor and department chair; CHM 345 or 358 or 362 depending on area of interest)

402 Research for Undergraduates. 4 hrs. I, II, S.
Both a formal oral and written report of the research must be presented to the faculty of the Department of Chemistry. (PR: CHM 401)

410 Advanced Synthesis and Analysis. 4 hrs.
Advanced problems in synthesis, separation and analysis with emphasis on modern instrumental methods. 1 lec-6 lab. (PR: CHM 361)

422 Spectrophotometric Methods of Analysis. 3 hrs.
Modern theories and methods of spectrophotometric analysis, including atomic absorption, infrared, UV-visible and colorimetric methods. 1 1/2 lec.-3 lab. (PR: CHM 345 and either 307 or 358)

423 Environmental Analytical Chemistry. 4 hrs.
Sampling and modern instrumental analysis of water, air and sediments according to EPA methodology. May be used to fulfill the American Chemical Society Environmental Chemistry certification. (PR: C or better in CHM 345)

426 Chromatographic Methods of Analysis. 3 hrs.
Modern theories and methods of chemical separations with emphasis on gas and liquid chromatography. (PR: CHM 345 and 356 and either 307 or 358) 2 hr. lec., 2 hr. lab.

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)

430 Introduction to Polymer Chemistry. 3 hrs.
Properties of macromolecules. Methods of preparation and characterization. Industrial applications and processes. 3 lec. (PR: Permission of instructor of CHM 356 and either 307 or 357)

431-432 Chemistry Seminar. Credit I, II.
A graduation requirement for all seniors enrolled in the B.S. in Chemistry program. 1 lec.

440 Thermodynamics. 3 hrs.
An introduction to chemical thermodynamics and statistical mechanics. 3 lec. (PR: CHM 358)

442 Quantum Mechanics. 3 hrs.
An introductory course in quantum mechanics. 3 lec. (PR: MTH 231)

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 357)

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)

450 Industrial Chemistry. 3 hrs.
Modern industrial processes for making chemicals, with emphasis on petrochemicals. An introduction to the engineering, economic, and environmental aspects of these processes. (PR: Permission of instructor of CHM 356 and either 307 or 357)
Magnetic Resonance in Chemistry. 3 hrs.
Applications of analysis by magnetic resonance. Emphasis will be placed on proton and heteronuclear magnetic resonance theory and applications. (2 hrs. lec.-2 hrs. lab.) (PR: CHM 356)

Molecular Spectroscopy. 3 hrs.
A study of the emission and absorption of radiant energy and its relation to molecular structure. 3 lec. (PR: CHM 358)

Nuclear Chemistry and Physics. 3 hrs. II.
An introduction to the phenomena of nuclear physics and chemistry. 3 lec. (PR: MTH 231)

Nuclear Chemistry and Physics Laboratory. 2 hrs., II, 4 lab.
(CR: CHM 462)

Advanced Organic Chemistry I. 3 hrs. I.
Studies of the dynamics of organic reactions with emphasis on mechanisms and stereochemistry. 3 lec. (PR: CHM C or better in CHM 356)

Advanced Organic Chemistry II. 3 hrs. II.
A continuation of Chemistry 465 with emphasis on synthetic methods. 3 lec. (PR: CHM 465)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.

Chemistry Internship. 1-6 hrs. I, II.
Supervised chemistry laboratory work. Arrangements must be made in advance with Department Chairman. May be an elective in B.S., Chemistry program but not B.S. in Chemistry program. (PR: 2 from CHM 307, 345, 361, or 356)

Capstone Experience. 2-4 hrs. I, II.

Honors in Chemistry. 3-4; 3-4 hrs. I, II, S.
Open only to chemistry majors of outstanding ability. See Honors Courses

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).

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).

231 Women in Greek and Roman Literature (taught in English) 3 hrs. I or II.
Thematic study of women in ancient Greek and Roman literature, including writers like Sappho as well as women in literary roles in male writers from Homer to Apuleius.

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.

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.

250 Orientation in Humanities. 3 hrs. I, II.
An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Philosophy 150 and Religious Studies 150; 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.

350 Basic Humanities. 3 hrs. I or II.
A structured interdisciplinary study offered by the departments of Classical Studies, Philosophy and Religious Studies in the foundations of Western thought: its myth, literature, religion, philosophy, art. (Same as Philosophy 350 and Religious Studies 350)

370 Classical Archaeology. 3 hrs. I or II.
Archaeology of ancient Greece and Rome, and their colonies and their imperial domains. (Same as Anthropology 370)

435 Greek Civilization. 3 hrs. II.
Study of ancient Greek culture, emphasizing parallels with present-day issues.

Marshall University 1997-99 Undergraduate Catalog Courses of Instruction/221
Roman Civilization. 3 hrs. II.
Study of ancient Roman culture, emphasizing parallels with present-day issues.

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.

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)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.

Readings for Honors in Classics. 4; 4 hrs. I, II.
Open only to students of outstanding ability. See Honors Courses.

Humanities Seminar. 3 hrs.
Designed for majors as the culminating interdisciplinary study in the Basic Humanities program. (Same as Philosophy 499 and Religious Studies 499)

CLINICAL LABORATORY SCIENCES (CLS)

(Orientation in Clinical Laboratory Science. 1 hr. CR/NC. I.
Introduction to clinical laboratory careers, emphasizing programs available at Marshall University. Features hospital laboratory specialists.

Clinical Hematology. 4 hrs. I, II.
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" and minimum 2.0 GPA)

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, 213, min. 2.0 GPA, with "C" grade in MTH 120, and permission)

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)

Clinical Microbiology. 4 hrs. II.
A study of bacterial, fungal, and helminth related diseases, including diagnostic approach and techniques. 3 lec-3 lab. (PR: CLS 200, permission)

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)

Clinical Practicum, Hematology. 3 hrs. S.
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)

Clinical Practicum, Chemistry. 3 hrs. S.
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)

Clinical Practicum, Immunohematology. 3 hrs. S.
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)

Clinical Practicum, Microbiology. 3 hrs. S.
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)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs. I, II.

Advanced Clinical Hematology/Microbiology. 4 hrs. I.
Advanced topics in blood cell disorders, transfusion problems, bleeding disorders; advanced diagnostic procedures in bacteriology, parasitology, virology. 3 lec-3 lab. (PR: CLS 210, CLS 220, and permission)

Clinical Laboratory Management and Supervision. 3 hrs. I.
Laboratory personnel and resource management, cost control, cost analysis, lab. marketing, accreditation. 3 lec. (PR: MGT 320 and permission)
Clinical Laboratory Instrumentation and Information Systems. 3 hrs. I.
Principles of instrumental electronics and data systems; interpretation of instrumental outputs, troubleshooting, computerized statistical methods. 2 lec-2 lab. (PR: PHY 201-204, CLS 200 and permission)

Diagnostic Physiology. 3 hrs. I.
Pathologic aspects of laboratory medicine with case studies, diagnostic problem solving, student projects. 3 lec. (PR: CLS 270-273, permission)

Clinical Laboratory Research. 2 hrs. II.
Directed independent research in the hospital laboratory setting during 18-week period. Capstone experience. (PR: CLS 450-466, permission; CR: CLS 471, CLS 491)

Clinical Practicum. 9 hrs. II.
A minimum of 450 hours of hospital-based experience in 18 weeks emphasizing supervisory decision making. (PR: CLS 450-466, permission; CR: CLS 468, CLS 491)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission)

Independent Study. 1-4 hrs.
(PR: Permission)

Clinical Specialty Workshops. 3 hrs. II.
Minimum 150 hours experience in advanced specialty test procedures within 18 weeks. (PR: CLS 450-466, permission; CR: CLS 468, 471)

COMMUNICATION DISORDERS (CD)

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.

Introduction to Communication Science. 3 hrs.
A survey of the physical and psychophysical bases of communication with discussion of elementary communication models. (PR: CD 101, and permission of instructor)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of chair)

Computer Networking in Communication Disorders. 3 hrs.
Introduction to adaptive technology for computers to augment communication skills; evaluation of and authoring of software for diagnosis and treatment of communication disorders. Satisfies computer literacy requirements for majors. (PR: Permission of instructor)

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. (PR: CD 101; PR/CR: CD 241 and permission of instructor)

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.

Voice and Fluency Disorders. 3 hrs.
Introduction to voice and fluency disorders; etiologies and symptoms; principles of assessment and treatment. (PR: CD 429, 439 and permission of instructor)

Articulation and Phonological Disorders. 3 hrs.
Introduction to disorders of articulation and phonology; etiologies and symptoms; principles of assessment and treatment. (PR: CD 429, 439 and permission of instructor; CR: CD 422L)

Field Experience: Speech and Language. 1 hr.
Experience with preschool age children; planning and implementing speech and language stimulation activities. (PR: CD 429, 439 and permission of instructor; CR: CD 422)

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: CD 422, 422L, 425, 420, 468, 460, 430 and permission of instructor; CR: CD 424L)

Diagnostic Processes Laboratory. 1 hr.
Observation and practice in evaluating individuals with communication disorders. (PR: CD 426, 422L, 426L and permission of instructor; CR: CD 424)

Developmental Language Disorders. 3 hrs.
Introduction to theoretical bases of developmental language disorders; etiologies and symptoms; principles of assessment and treatment. (PR: CD 325, 429, 439 and permission of instructor)
426 Therapeutic Procedures I. 3 hrs.
Examination of therapeutic procedures relative to developmental speech disorders. Capstone experience. (PR: CD 422, 422L, 425, 420, 468, 460, 430 and permission of instructor; CR: CD 426L)

426L Therapeutic Procedures Laboratory I. 1 hr. CR/NC
Observation of individuals with communication disorders and introduction to analysis of the clinical process. (PR: CD 422, 422L, 425, 420, 468, 460, 430 and permission of instructor; CR: CD 426)

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 426, 422L, 425 and permission of instructor; CR: CD 427L)

427L Therapeutic Procedures Laboratory II. 1 hr. CR/NC
Observation and in-depth analysis of the clinical process. (PR: CD 426L and permission of instructor; CR: CD 427)

429 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. (PR/CR: CD 241, 325 and permission of instructor)

430 Acquired Communication Disorders. 3 hrs.
Introduction to acquired disorders; etiologies and symptoms; principles of assessment and treatment. Emphasis on communication disorders resulting from CVA, traumatic brain injury, the dementias, and other neurological disorders. (PR: CD 429, 439, permission of instructor)

439 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. (PR/CR: CD 241, 325 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: CD 325, 429, 439, and permission of instructor)

463 Aural Rehabilitation. 3 hrs.
Examination of various intervention strategies appropriate for individuals with hearing impairments; techniques for assessing degree of handicap. (PR: CD 460 and permission of instructor)

468 Introduction to Clinical Principles. 3 hrs.
Examination of the principles and processes of identification, diagnosis and treatment of communication disorders and differences. (PR: CD 323, 429, 439 and permission of instructor)

470 Clinical Practicum. 1 hr.
Supervised clinical practicum in the Marshall University Speech and Hearing Center. (PR: CD 426, 426L and permission of instructor)

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: CD 426, 468; PR or CR: CD 424 and admission to Teacher Education and permission of instructor)

480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of chair)

485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of chair)

495H-496H Readings for Honors in Communication Disorders. 4; 4 hrs.
Open only to CD majors of outstanding ability. (PR: Permission of chair)

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.
A accelerated course for selected freshmen and sophomores in fundamentals of communication, concepts and skills in verbal/nonverbal communication and listening. Not open to juniors and seniors. (Substitute for CMM 103) (PR: ACT score 26)

202 Introduction to Public Speaking. 3 hrs.
Source credibility, lines of reasoning, psychological appeals, attention factors, methods of topic and audience analysis, style, and the application of this basic theory to the practice of various forms of public address. (PR: CMM 103)

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.
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.

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.

Voice and Diction. 3 hrs.
Theory and practice of speech production and improvement. (PR: CMM 103) NOTE: A special section (240A) for international students focuses on diction of oral American English. For international students required to take 240A, this course is prerequisite to CMM 103 and 305.

Introduction to Computer-Mediated Communication. 3 hrs.
Use and implications of telecomputing for messaging, resource finding, and self-directed discovery learning.

Intercollegiate Debate. 1; 1 hr.
(PR: Permission of instructor)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of department chair)

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.

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, 207, or 213)

Principles of Communication. 3 hrs.
Beginning course, open to juniors and seniors who have not had CMM 103 or 202.

Communication in Social Movements. 3 hrs.
Investigation of the functions, ethics, responsibilities and social impact of oral communication in periods of social unrest. (PR: CMM 103, 207, or 213)

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.

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)

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.

Group Communication. 3 hrs.
Study of group communication processes, including problem solving, systems of group communication analysis and evaluation, in task oriented groups.

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.

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.

Oral Interpretation of Literature. 3 hrs.
The fundamentals of reading, analyzing, and interpreting literature. (PR: CMM 240 or permission)

Intercultural Communication. 3 hrs.
A study of the barriers to communication across cultures and of strategies for addressing these problems.

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.

Intercollegiate Forensics 1; 1 hr.
Continuation of CMM 270-271. (PR: Permission of instructor)
Organizational Communication. 3 hrs.
Investigation of information flow in organizations with emphasis on identifying communication problems.

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.

Interviewing. 3 hrs.
Skill development in the question-answer-response process as it applies to a variety of interviewing situations.

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.

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.

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)

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.

Communication and Conflict. 3 hrs.
An exploration of the theory, research, and practice of communication in understanding and negotiating interpersonal conflict.

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. (PR: CMM 103)

Direction of Speech Activities. 3 hrs.
Direction of extracurricular speech activities: assemblies, forensic events, etc. (PR: Fifteen hours of communication studies or permission of department chair)

Computer-Mediated Communication. 3 hrs.
This course explores the impact of computer-mediated communication on human organization.

Health Communication. 3 hrs.
Explores communication demands of healthcare and health promotion, examines communication controversies in the modern health care system, and examines communication strategies to resolve health care problems. (PR: Junior status or permission)

Communication for Classroom Teachers. 3 hrs.
Knowledge and utilization of interpersonal communication skills in all teaching-learning environments.

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)

Special Topics in Communication Studies. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of department chair)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of department chair)

Internship. 1-4 hrs.
(PR: Permission of department chair)

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)

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 AND SOFTWARE DEVELOPMENT (CSD)

Computers and Data Processing. 3 hrs. I, II, S.
Computer literacy. Introduction to fundamental concepts and skills of computing. Includes terminology, control statements, program execution, disk handling. Hands-on experience in word processing, spread sheets, databases, electronic mail.
Introduction to Computer Programming I. 4 hrs.
Focus on problem solving skills and software engineering practices. Introduction to software life cycle; Problem analysis and algorithms; Program development using C++; and "hands-on" experience using supervised laboratory sessions. (PR: CSD 101 or equivalent; CR: MTH 130, 130E or 132)

Introduction to Computing I. 4 hrs. I, II, S.
Introduction to the entire system life cycle. Problem analysis and algorithm development. Program design, coding, and testing. Introduction to the Ada language. Extensive experience in programming, including supervised lab sessions. (PR: CSD 101 or equivalent; CR: MTH 130 or equivalent)

Introduction to Computing II. 4 hrs. I, II, S.
Continuation of CSD 119, emphasizing data structures (stacks, queues, trees, graphs), and algorithms for data structure manipulation. Advanced features of Ada. Numerous programming projects, involving larger, more complex solutions. Professional ethics. (PR: CSD 119; MTH 229 co-requisite)

COBOL Programming I. 3 hrs. I, II.
Concepts of computer programming using COBOL as a tool for solving problems in business data processing applications. (PR: CSD 101 or equivalent.)

FORTRAN Programming I. 3 hrs. I, II.
Introduction problem solving methods and algorithm development using the FORTRAN programming language. (PR: CSD 101 or equivalent.)

C Programming I. 3 hrs. I.
Concepts of software development and maintenance using C as a tool for problem solving. Applications will be derived from business, scientific and engineering fields. (PR: CSD 101 or equivalent)

Introduction to Computer Engineering. 3 hrs. I.
Number system, Boolean algebra, Boolean function minimization techniques. Introduction to digital circuits and design; and analysis of combinational and sequential circuits, asynchronous and synchronous circuits. (PR: CSD 120; CR: PHY 211 & MTH 340)

Computer Organization and Assembly Language Programming. 3 hrs. II.
Introduction to PC architecture; memory architecture and management. Data representation, I/O devices. Overview of software systems: assembler, linker, debugger. (PR: CSD 212; CR: PHY 213)

Introduction to World Wide Web (Web) Computing. 3 hrs.
Techniques and issues involved with developing documents and programs for use on the Web. Topics include: networking basics, multimedia, hypertext document production, installing, maintaining, and securing a Web server. (PR: CSD 101)

Analysis and Design of Algorithms. 3 hrs. II.
Review basic data structures and introduce advanced data structures; algorithm complexity analysis; identification of efficient methods. Algorithm design techniques (divide and conquer, backtracking, etc.). Intractable problems, decidability. (PR: CSD 120, MTH 340)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of instructor)

Introduction to Systems and Software Engineering. 3 hrs. I.
The software development and maintenance process, software life cycle, software within a larger system; requirements analysis and specification; system engineering approaches; automated tools; requirements analysis/specification team project. (PR: CSD 240)

Computer Architecture. 3 hrs. I.
Introduction to microprocessor; design alternatives, microprogramming, bus structure, memory organizations, serial and parallel port design, alternative computer architecture. (PR: CSD 222, CSD 240)

Introduction to Programming Languages. 3 hrs. I.
Comparative evaluation and use of several languages; syntax and semantics—including specification; compilation and software engineering issues; control, data, module approaches. Imperative and functional languages; concurrency, logic, object-oriented approaches. (PR: CSD 222, CSD 240)

Software Engineering. 3 hrs. II.
Review of requirements determination. Functional and object-oriented design; automated tools. Real-time, reliability, software reuse. Implementation, integration, testing, maintenance. Verification and validation, configuration management. Team project, large system. (PR: CSD 313)

Operating Systems. 3 hrs. II.
Process management, device and memory management, security, networking, distributed operating systems. Emphasis on the Unix operating system. Experimental projects using the C. programming language. (PR: CSD 222, CSD 240)

Systems Programming. 3 hrs. II.
Principles of systems programming; language translators, assemblers, interpreters, and compilers. Advanced operating system concepts; management of memory, I/O, files, processes. (PR: CSD 338)

Software Development for Health Care. 3 hrs. II, S.
Software development and maintenance approaches for the health care industry. Shared database
approaches; instrumentation interfacing and control; inquiry/response methods and effective user interfaces. Participation in team projects. (PR: CSD 120)

419 Decision Systems. 3 hrs. I, S.
System/software approaches to decision support systems. On-line group decision systems, knowledge-based systems, interactive user interfacing methods, electronic conferencing and teleconferencing, statistical software, distance learning/response techniques, trends. Project participation. (PR: CSD 313, MGT 320)

429 Introduction to Computer Graphics. 3 hrs. II.
Introduction to underlying theory and techniques of computer graphics. Historical perspective. Display hardware technology, 2D raster operation, 2D and 3D geometric transformations, and 3D projection and viewing techniques. Project participation. (PR: CSD 222, 240, MTH 330)

439 Introduction to Artificial Intelligence. 3 hrs. I.
Concepts and methods. Heuristic search, planning, hypothesis formation, modeling, knowledge acquisition and representation. Languages, methodologies, tools. Applications, such as automatic programming, theorem proving, machine vision, game playing, robots. Project participation. (PR: CSD 240)

442 Communication Networks and Distributed Systems. 3 hrs. II.

449 Formal Languages and Automata Theory. 3 hrs. I.
Concepts and formalisms of formal languages and automata theory. Fundamental mathematical concepts. Grammars and corresponding automata. Deterministic parsing of programming languages. (PR: CSD 325)

457 Database Systems. 3 hrs. II.
Basic concepts, semantic models. Data models: object-oriented and relational, lesser emphasis on network and hierarchical. Query languages and normal forms. Design issues. Security and integrity issues. (PR: CSD 120, MGT 320, or CSD 240)

459 Computer Simulation and Modeling. 3 hrs. I.

467 Compiler Design. 3 hrs. I.
Compilation of modules, expressions, and statements. Organization of a compiler including compile-time and run-time aspects: symbol tables, lexical analysis, syntax analysis, semantic analysis, optimization, object-code generation, error diagnostics. Compiler writing tools. Participation in compiler development project. (PR: CSD 325, CSD 449)

468 Image Processing. 3 hrs.
Image Processing focuses on the application of technology to scientific analysis of images. Topics include: Measurement techniques, scientific methods of reconstruction and interpretation of images and video. (PR: CSD 240)

470 Introduction to Applied Automation. 3 hrs. I.
Introduction to production economics. Programmable logic control, sensors and actuators, digital and analog I/O design. Introduction to robotics and flexible manufacturing systems. (PR: CSD 322)

480-483 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of Instructor)

485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of Instructor)

495 Senior Team Project Sequence, First Semester. 3 hrs. I.
With CSD 496, constitutes a yearlong capstone team project, carrying out an entire system and software engineering life cycle for a project of realistic size and complexity. Capstone Experience (PR: CSD 333)

496 Senior Team Project Sequence, Second Semester. 3 hrs. II.
A continuation of the project begun in CSD 495. CSD 495 and CSD 496 should be taken in consecutive semesters of the same academic year. Capstone Experience (PR: CSD 495)

COUNSELING (CR)

100 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.
Peer Counseling. 3 hrs.
Theory, practice, and intervention of peer helping relationships. Demonstration and practice of basic helper skills for resident advisers. Does not satisfy requirements for core courses or restrictive electives.

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 C&R majors.

Alcohol Counseling by Peers. 1 hr.
History and practice of alcohol prevention and intervention by peer helpers. Designed to meet the needs of resident advisers. Does not satisfy requirements for core courses or restricted electives.

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.

Special Topics. 1-4; 1-4 hrs.
(PR: Permission of department chairman)

Introduction to Counseling & Rehabilitation. 3 hrs.
Introduction to the fields of counseling, various mental, physical and social disabilities, careers in Counseling and Rehabilitation, Counseling and Rehabilitation services and orientation processes. (CR: CR 370)

Community Resources. 3 hrs.
Study of available resources in the community and their utilization in providing rehabilitation services.

Introductory Practicum in Counseling. 3 hrs.
Orientation to helping service agencies and practice in developing interviewing skills under professional supervision. A forty-five hour practical experience involving active contact under supervision with handicapped persons enables students to experientially explore their own abilities, to try the helping role, and to get acquainted with clients and helping agencies. (CR: CR 306)

Occupational and Career Development. 3 hrs.
Study of career choice theory, career change, counseling approaches in career selection and resources to assist in career choice.

Job Placement. 3 hrs.
Study of techniques for diagnostic interviewing, work adjustment, job development, and job placement. The course offers practical and theoretical ways to understand and carry out the placement of handicapped individuals in employment.

Counseling Theories and Techniques. 3 hrs.

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: CR 406, 414, 415, 416, 420 or permission of instructor)

Research in Counseling and Rehabilitation. 3 hrs.
A seminar study of the problems in counseling/rehabilitating special disability groups (mentally retarded, mentally ill, alcoholic, public offender, disadvantaged) as well as research into these and other unmet needs in counseling/rehabilitation today. (PR: CR 306, 425 or permission of instructor)

Group Process and Analysis. 3 hrs.
Study and practice of dynamics involved in task and therapeutic groups; a thorough analysis of group process. (PR: Permission of instructor)

Manual Communication. 3 hrs.
Psychological characteristics of hearing impaired and techniques of manual communication.

Internship Seminar. 2 hrs. S.
Group review and synthesis of internship activities, counseling approaches, and special problem areas. The course offers an opportunity to analyze and process the experiential activities of the internships. (PR: CR 306, 320, 370, 406, 425, 430, 433, 435, 440, 446, 448, 470 and permission of instructor. CR: CR 490)

Advanced Manual Communication. 3 hrs.
Advanced course in the grammar, syntax and idioms of American Sign Language and a comprehensive overview of the effect of hearing impairment. Emphasis will be upon communicating in ASL. (PR: CR 445 or 345)

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.
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.

Professional Development. 1-4; 1-4; 1-4; 1-4 hrs.  
To meet needs of school, student personnel, mental health, and other workers. Credit may be used for certificate renewal and salary upgrading, but not in degree programs; titles vary. (CR/NC)

Advanced Practicum in Counseling. 3 hrs.  
Practical experiences in counseling interviews under professional supervision. (CR: CR 425, 448)

Hypnosis: Implications and Applications for Counselors. 3 hrs.  
An introduction to hypnosis and its application in a counseling framework. Emphasis will be upon the Milton H. Erickson model by hypnosis. (PR: CR 425 or 614, or special permission)

Multicultural Perspectives in Counseling. 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.

Counseling in Chemical Use and Abuse. 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: Permission of instructor)

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.

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.

Counseling with the Elderly. 3 hrs.  
Counseling techniques and theories applied to problems of the elderly.

Pharmacology in Counseling. 3 hrs.  
Provide basic understanding of the role of therapeutic drugs in the treatment of psychiatric disorders; familiarize with most commonly prescribed drugs, side effects, and adverse reactions in specific mental illnesses. (PR: CR 306, 370)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.  
(PR: Permission of department chairman)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.  
(PR: Permission of department chairman)

Counseling Internship. 10 hrs. S.  
Participation in counseling process with a variety of individuals under supervision of cooperating agencies. (PR: CR 306, 320, 370, 406, 425, 430, 433, 435, 440, 446, 448, 470. Senior standing, major only and overall 2.0 average and permission of instructor. CR: CR 449)

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.

Readings for Honors in Counseling. 1-3; 1-3 hrs.  
(PR: Permission of department chairman). See Honors Courses.

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.

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.

Principles and Practices of Counseling. 3 hrs.  
The objectives, principles, and practices of counseling. (Not open to undergraduate C&I majors)

CRIMINAL JUSTICE (CJ)

Introduction to Law Enforcement. 3 hrs.  
Basic course dealing with agencies involved in administration of justice; history and organization of local state and federal agencies; courts, trial, jails, and prisons; probation and parole.

230/Courses of Instruction Marshall University 1997-99 Undergraduate Catalog
Introduction to Corrections. 3 hrs.
A survey of the historical development of the systems of punishment and rehabilitation. Analysis of the reasons for incarceration of offenders.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

Advanced Legal Research. 3 hrs.
Gives the student additional experience in legal research and introduces the skills required in drafting legal documents. Capstone Experience. (PR: LAS 211)

Police Administration I. 3 hrs.
First level supervision of employee morale and discipline; selection, training, placement, promotion; techniques of leadership and decision making.

Criminal Investigation. 3 hrs.
Investigation methodology; relations of the detective with other police divisions; modus operandi; sources of information; surveillance, interrogation, follow-up procedures. (PR: CJ 211)

Criminal Justice Administration. 3 hrs.
Criminal procedure from apprehension to conviction arrests, extradition proceedings; information and indictment; functions of the grand jury and the coroner; trial procedure.

Criminal Law. 3 hrs.
History and development of criminal law, elements of a crime, parties to a crime, types of offenses. (PR: CJ 321)

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 321)

Probation and Parole. 3 hrs.
Organization of systems of after-care treatment of juvenile and adult offenders released under probation and parole. (PR: CJ 231)

Seminar in Crime Prevention. 3 hrs.
Techniques for crime prevention analyzed from two orientations: crime prevention by environmental engineering and crime prevention by behavior modification. (PR: CJ 211)

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. Capstone Experience

Police Administration II. 3 hrs.
Functions and activities of police agencies. Police department organizations, responsibilities of upper level administrators. Current administrative experimentation on law enforcement agencies.

Community Relations. 3 hrs.
Law enforcement and the community; relation to schools, public education functions of law enforcement personnel; community attitudes. (PR: CJ 211)

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. (PR: CJ 211)

Corrections and the Law. 3 hrs.
Review of criminal law principles and theory as related to corrections. (PR: CJ 231)

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 321)

Juvenile Justice Administration. 3 hrs.
A survey of the process through which the juvenile delinquent passes. (PR: CJ 321)

Criminal Rehabilitation. 3 hrs.
Legal and historical background of rehabilitation; roles of correctional workers; and nature of the rehabilitation process. (PR: CJ 231)

Correctional Institutions. 3 hrs.
Analysis of the theory of organizations and administration of correctional institutions; principles of institutional corrections. (PR: CJ 231)

Correctional Administration. 3 hrs.
Objectives of correctional institutions; records; personnel, program development, security; educational programs. (PR: CJ 231)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
A study of special interest criminal justice topics under the supervision of a qualified faculty member. (PR: Consent of the instructor)
485-488 Independent Study. 1-4; 1-4; 1-4; 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)

495H-496H Readings for Honors in Criminal Justice. 2-4; 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)

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 099 or 10 on ACT)

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 the foundations of elementary mathematics in a laboratory setting emphasizing an inquiry and discovery approach; mathematical systems such as groups and fields, structure of the real number system, basic algebraic operations, simple analytical geometry, informal metric and non-metric geometry, probability, and statistics. (PR: CI 101)

203 Children's Literature. 3 hrs. I, II, S.
Types of poetry and prose appropriate for elementary school pupils, with emphasis on methods of presentation. May not be used as elective to meet requirements of English major in 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.

300 Mathematics Education: Teaching Elementary School Mathematics. 3 hrs. I, II, S.
Investigation of techniques and approaches to helping children learn mathematics with special emphasis on the use of manipulative materials in a laboratory setting. (PR: CI 201)

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, six hours of literature)

307 Science Education: Science in the Elementary School. 2 hrs. I, II, S.
Practical application of modern methods and media in helping children learn more about the earth, physical, and biological sciences. (PR: Eight hours of biological or physical science)

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.

342 Reading-Language Methods. 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. (PR: Admission to Teacher Education, CR: CI 446 and 471)

367 Organization for Instruction in Early Childhood Education. 3 hrs. I, II.
An overview of the development of early childhood education, related research, pre-primary program models, elementary school organizational patterns, program planning and techniques of working with parents. (PR: EDF 319 and FCS 303)

370 Social Studies Methods in Elementary Schools. 2 hrs. I, II, S.
An introduction to materials and methods for teaching social studies in elementary schools including goals, processes, strategies and evaluation.
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.

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. (PR: CI 401)

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: CI 446 and permission)

Elementary Childhood Education: Early Childhood Curricula. 3 hrs. I, II.
Relationship of the kindergarten-elementary school curricula to child growth and development. Recent trends in curriculum organization and adapting curriculum content and methods to maturity levels of children. (PR: CI 367)

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: CI 367, CI 446 and permission)

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.

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.

Special Education: Introduction to the Resource Room. 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. (Special Education majors only; or permission of instructor, CI 320).

Special Education: Behavioral Characteristics of Exceptional Children. 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)

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: CI 320 or permission)

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: CI 320 or permission)

Introduction to the Gifted. 3 hrs. I, S.
An overview of giftedness in children; definitions, etiology, observable characteristics, and implications for educational agencies. (PR: CI 320 or permission)

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. (PR: Permission of instructor)

Methods and Materials in Teaching Health. 3 hrs. II.
Survey of methods and materials for teaching health. (PR: Admission to teacher education. CR: CI 470)

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: CI 320 or permission; CR: Field experience)

Education of Physically Handicapped. 3 hrs. II, S.
Principles and current trends in the teaching of crippled and other health impaired children. Curriculum development for teaching physically handicapped children as well as various methods and materials used in their education. (PR: CI 320 and admission to teacher education.)

Curriculum and Methods for the Severely and Multiply Handicapped. 3 hrs. I, S.
A review of curriculum development and methods used to teach severely and multiply handicapped children. Evaluation techniques and adaptation of materials and equipment are presented. (PR: CI 429 and 433; CR: Field experience)

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: CI 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: CI 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: CI 320, 433)

445 Teaching Content Reading. 3 hrs. I, II, S.
Principles underlying the teaching of reading in junior and senior high schools. (PR: EDF 319)

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. (PR: Admission to Teacher Education; CR: CI 343 and 471)

449 Classroom Management Techniques for Secondary and Middle Childhood Teachers. 3 hrs. I, S.
Classroom management with emphasis on practical techniques for dealing with management problems in secondary and middle school settings.

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: Methods in teaching special education and permission)

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: Methods and permission)

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: CI 320 and 433 or permission)

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.

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 Professional 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.

467 Secondary Education: Teaching Social Studies. 3 hrs. II.
Survey of materials and methods for teaching social studies. (PR: Admission to teacher education; CR: CI 470)

468 Secondary Education: Teaching Art. 3 hrs. II.
Survey of materials and methods for teaching art. (PR: Admission to teacher education. CR: CI 470)

469 Secondary Education: Teaching Business Education. 3 hrs. II.
Survey of materials and methods for teaching business subjects. (PR: Admission to teacher education; CR: CI 470)

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: Admission to Teacher Education; CR: Either CI 428, 467, 468, 469, 473, 474, 476, 477, 478, 479, FCS 306 or MKE 405)

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: Admission to Teacher Education; CR: CI 343, 446)

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: Admission to Teacher Education: CR: EDF 319)

473 Secondary Education: Teaching Physical Education. 3 hrs. II.
Survey of materials and methods for teaching physical education in grades 5-12 (men and women). (PR: Admission to teacher education and completion of P.E. activity competencies; CR: CI 470)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Education: Teaching the Sciences. 3 hrs. 1, II.</td>
<td>Survey of materials and methods for teaching the sciences. (PR: Admission to teacher education. CR: CI 470)</td>
<td>3 hours</td>
<td>1, 11.</td>
</tr>
<tr>
<td>Secondary Education: Teaching Speech. 3 hrs.</td>
<td>Survey of materials and methods for teaching speech. Junior clinical experience of 25 hours in a school setting is required. (PR: 24 hours of speech and admission to teacher education. CR: CI 470)</td>
<td>3 hours</td>
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</tr>
<tr>
<td>Secondary Education: Teaching English. 3 hrs. II.</td>
<td>Survey of materials and methods for teaching English. (PR: Admission to teacher education. CR CI 470)</td>
<td>3 hours</td>
<td>11.</td>
</tr>
<tr>
<td>Secondary Education: Teaching Foreign Languages. 3 hrs. I.</td>
<td>Survey of materials and methods for teaching the languages. (PR: Admission to teacher education. CR: CI 470)</td>
<td>3 hours</td>
<td>1.</td>
</tr>
<tr>
<td>Special Topics. 1-4; 1-4; 1-4 hrs. I, II, S.</td>
<td>Permission of chairman. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.</td>
<td>1-4 hours</td>
<td>1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4.</td>
</tr>
<tr>
<td>Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.</td>
<td>Permission of chairman. Requires 2.5 GPA, limit of 6 hours to be used in professional education as a specialization.</td>
<td>1-4 hours</td>
<td>1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4; 1-4.</td>
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</tbody>
</table>

### CYTOTECHNOLOGY (CYT)

(Prerequisite: Admission is subject to approval by the Admissions Committee of the School of Cytotechnology.)

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>438</td>
<td>Cytological Methodology. 3 hrs. I.</td>
<td>3 hours</td>
<td>Routine methods in cytology (specimen processing, staining, record keeping). Special methods (filtration, concentrations). Clinical microscopy (routine and special methods: light, phase, dark field).</td>
</tr>
<tr>
<td>439</td>
<td>Elementary Cytology. 3 hrs. I.</td>
<td>3 hours</td>
<td>Fundamentals of cell structure, embryology, microbiology, and mycology as related to cytodiagnostics; characteristics of benign and malignant cells.</td>
</tr>
<tr>
<td>440</td>
<td>Genital Cytology. 6 hrs. I.</td>
<td>6 hours</td>
<td>Cytology of the female genital tract in health and disease. The study of cells in normal, benign, and malignant stages of development.</td>
</tr>
<tr>
<td>441</td>
<td>Cytology of the Respiratory Tract. 3 hrs. II.</td>
<td>3 hours</td>
<td>Cytology of the respiratory epithelium in health and disease. Study of the cell in normal conditions, in benign and malignant pathological conditions.</td>
</tr>
<tr>
<td>442</td>
<td>Cytology of the Body Cavities. 3 hrs. II.</td>
<td>3 hours</td>
<td>Cytology of the pericardial, pleural, and abdominal cavities. Study of primary and metastatic tumors.</td>
</tr>
<tr>
<td>443</td>
<td>Cytology of the Urinary Tract. 3 hrs. II.</td>
<td>3 hours</td>
<td>Cytology of the urinary tract in health and disease. Study of the cell in normal conditions, in benign and malignant pathological conditions.</td>
</tr>
<tr>
<td>444</td>
<td>Cytology of the Breast. 3 hrs. II.</td>
<td>3 hours</td>
<td>Cell changes resulting from benign diseases and malignant tumors of the breast.</td>
</tr>
<tr>
<td>445</td>
<td>Cytology of the Gastro-Intestinal Tract. 3 hrs. S.</td>
<td>3 hours</td>
<td>Cytology of the alimentary tract in health and disease. Study of the cell in normal conditions, in benign and malignant pathological conditions.</td>
</tr>
<tr>
<td>446</td>
<td>Research in Cytotechnology. 1 hr. II.</td>
<td>1 hour</td>
<td>Directed independent cytodiagnostics research in the hospital setting. Capstone experience.</td>
</tr>
<tr>
<td>447</td>
<td>Advanced Methods in Cytology. 4 hrs. S.</td>
<td>4 hours</td>
<td>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.</td>
</tr>
</tbody>
</table>

### DANCE (DAN)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Introduction to Dance. 3 hrs.</td>
<td>3 hours</td>
<td>Introduction to dance forms, principles of dance techniques, and role of dance in society.</td>
</tr>
<tr>
<td>205</td>
<td>Dance for the Musical Theatre. 3 hrs.</td>
<td>3 hours</td>
<td>Introduction to various dance forms and styles necessary for musical theatre. Training in rhythm and coordination with emphasis on elementary techniques and routines.</td>
</tr>
</tbody>
</table>

Marshall University 1997-99 Undergraduate Catalog

Courses of Instruction/235
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

**ECONOMICS (ECN)**

100 **Current Economic Problems and Controversies. 3 hrs.**
Offers a rudimentary conception of economic theory, contemporary issues and problems in economics by approaching from an issue and problem standpoint. (Not open to Business students who have completed Economics 250, 253)

150 **The United States in a Global Economy. 3 hrs.**
A study of the importance of trade to economic systems. Examines forces behind the globalization of the world economy and how national economies adjust to these events. (Not open to Business students who have completed ECN 250, 253)

200 **Survey of Economics. 3 hrs.**
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)

250 **Principles of Microeconomics. 3 hrs.**
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)

250H **Principles of Microeconomics Honors. 3 hrs.**
An accelerated course for specially selected freshmen and sophomores. Will substitute for ECN 250. (PR: GPA of 3.0)

253 **Principles of Macroeconomics. 3 hrs.**
Emphasis on macroeconomic models that explain the behavior of output, employment, and the price level in open and closed economies. Other topics include monetary and fiscal policies and economic growth. (PR: ECN 200 or 250.)

253H **Principles of Macroeconomics Honors. 3 hrs.**
An accelerated course for specially selected freshmen and sophomores. Will substitute for ECN 253. (Prerequisite ECN 200, or 250 and a GPA of 3.0)

280-283 **Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.**

310 **Money and Banking. 3 hrs. 1, II, S.**
Money, credit and credit institutions in the United States; monetary, fiscal, and banking functions of the Federal Reserve System. (PR: ECN 253)

326 **Intermediate Macroeconomic Analysis. 3 hrs. 1, II.**
National income accounting; macro-economic theories of output determination, employment, inflation, and growth; monetary and fiscal policies. (PR: ECN 253)

328 **Intermediate Microeconomic Analysis. 3 hrs.**
Micro-economic theories of the production and pricing of goods and services, payments to the factors of production. (PR: ECN 253 and MTH 203)
American Capitalism. 3 hrs.
Analysis of American Capitalism in terms of how interacting economic, political and class systems allocate resources and outputs. Includes empirical evaluation of conservative, liberal and radical views. (PR: ECN 200 or 253)

Global Macroeconomic Issues. 3 hrs.
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 253)

Economic Development of the United States. 3 hrs.
History of the economy; political-economic determinants of growth patterns; the evolution of corporations, unions, and other institutions. (PR: ECN 200 or 253)

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 200 or 253)

Comparative Economic Systems. 3 hrs.
Marxism, capitalism, communism, fascism and socialism considered as theories, movements and actual political economies. (PR: ECN 200 or 253)

Regional Economics. 3 hrs.
A study of location theory and regional development within a framework of economic theory. (PR: ECN 200 or 253)

International Economics. 3 hrs.
Movement of goods and balance of payments among nations; exchange rates; exchange controls and tariffs; problems and policies. (PR: ECN 253)

Introduction to Econometrics. 3 hrs.
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 253. MGT 218 and MTH 203)

History of Economic Thought. 3 hrs.
Economic theories and ideas from the earliest economists to those of Marshall and Keynes. (PR: ECN 200 or 253)

Public Finance. 3 hrs.
Analysis of governmental activities pertaining to raising of revenue and expenditure of monies; analysis of public debt and fiscal programs at all levels of government. (PR: ECN 253)

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 253)

Economics of Developing Countries. 3 hrs. II.
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 253)

Senior Thesis I: Research Methods and Skills. 2 hrs.
Focus on relationship between theory, reality and empirical research; development of research skills; written and oral presentation; group work. Development of thesis topic and bibliography. Capstone experience. (PR: Senior standing; ECN Major Status).

Senior Thesis II: Project Work and Writing. 2 hrs.
Development of thesis topic via presentations, peer criticism, written revisions, Communications skills enhancement via oral presentation practice and guidance. Completion of written thesis. Capstone experience. (PR: ECN 466)

Seminar in 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. (PR: Nine hours of economics or senior standing)

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. (PR: Twelve hours of economics, senior standing or permission)

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)

Open only to economics majors of outstanding ability. (See Honors Courses)
## EDUCATIONAL FOUNDATIONS (EDF)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>114</td>
<td>Introduction to Education</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>218</td>
<td>Human Development</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>270-272</td>
<td>Level I Clinical Experience. (Corequisite with Educational Foundations 218; no credit hours)</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>280-283</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
</tr>
<tr>
<td>319</td>
<td>Human Development (Teaching and Learning)</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>402</td>
<td>Psychology of the Middle Childhood Student</td>
<td>3 hrs.</td>
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<tr>
<td>406</td>
<td>Foundations of Education</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>415</td>
<td>History of Modern Education</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>417</td>
<td>Statistical Methods</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>435</td>
<td>Tests and Measurements</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>475</td>
<td>Schools and Society</td>
<td>3 hrs.</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
</tr>
<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
</tr>
<tr>
<td>495H-496H</td>
<td>Readings for Honors in Foundations of Education</td>
<td>1-3; 1-3 hrs.</td>
</tr>
</tbody>
</table>

## ENGINEERING

### ELECTRICAL ENGINEERING (EE)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Circuits I. 4 hrs. 1.</td>
<td></td>
</tr>
<tr>
<td>202</td>
<td>Circuits II. 4 hrs. II.</td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>Introductory Digital Logic Design. 3 hrs. 1</td>
<td></td>
</tr>
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</table>

### ENGINEERING MECHANICS (EM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>213</td>
<td>Statics. 3 hrs. 1.</td>
<td></td>
</tr>
<tr>
<td>214</td>
<td>Dynamics. 3 hrs. II.</td>
<td></td>
</tr>
<tr>
<td>215</td>
<td>Engineering Materials. 3 hrs. 1.</td>
<td></td>
</tr>
</tbody>
</table>

238/Courses of Instruction

Marshall University 1997-99 Undergraduate Catalog
Mechanics of Deformable Bodies. 4 hrs. II.
Strength of materials, shear and moment diagrams, stresses in shafts, beams and columns; combined stresses, deflections; computer applications. 4 lec. (PR: EM 213; PR or CR: MTH 231)

Fluid Mechanics. 4 hrs. II.
Principles of hydrostatics and hydrodynamics; computer applications. 3 lec. 3 lab. (PR or CR: EM 214 and MTH 231)

GENERAL ENGINEERING (EG)

101 Engineering Graphics. 3 hrs. I, II.
Orthographic projection; conventional representations and sections. Introduction to descriptive geometry. Introduction to computer-aided graphics. 2 lec. 4 lab.

106 Computer Aided Drafting and Design for Engineers and Scientists. 3 hrs. I, II.
Principles of computer aided drafting and design for engineers and scientists using microcomputers. Use of graphic pads and plotters. 1 lec. - 3 lab. (PR: EG 101 or permission of instructor)

107 Engineering Computations. 2 hrs. I, II.
Use of electronic calculators, format for engineering calculations; significant figures and dimensional analysis; graphs; computer applications. 1 lec. - 2 lab. (PR or CR: MTH 122 or 131)

108 Engineering Design. 2 hrs. II.
Principles of elementary engineering investigations and design. Computer applications. 2 lec. (PR: EG 107)

221 Engineering Economy. 3 hrs. I.
Economic selection of machines, structures and processes. Computer applications. 3 lec. (PR: EG 107)

285-288 Independent Study. 1-4; 1-4; 1-4; 1-4. I, II.
(Pr: Permission of instructor)

290 Internship in Engineering. 1-4 hrs.
Supervised off-campus activities which provide professional experience in different fields of engineering. (PR: Permission)

ENGLISH (ENG)

Advanced placement in English is granted on the basis of the Educational Testing Service (ETS) Advance Placement Test scores. Students who score three or higher in English are given credit for English 101. Students with enhanced ACT scores of 34 or better should notify the Director of Writing who will then arrange for credit in ENG 101-102 to be assigned to the student's record. Students with enhanced ACT Verbal scores of 18-26 should enroll in ENG 101. Students with ACT Verbal scores of 27-33 should enroll in ENG 201H.

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 Verbal 18-26. Students with scores 14-17 should first take COM 095; those with scores 0-13 should first take COM 094)

102 English Composition II. 3 hrs.
Academic writing with an emphasis on research related writing and higher levels of critical thinking and reading. (Not open to juniors and seniors. PR: English 101 or equivalent)

201H English Composition Honors. 3 hrs. I, II.
An accelerated course in English composition. Completion of 201H with a C or better satisfies the University requirement in freshman composition. Students completing the course are awarded three additional hours of credit toward graduation. (PR: Enhanced ACT English score of 27)

280-283 Special Topics. 1-4 hrs.

302 Research Intensive Writing. 3 hrs.
An upper-division research intensive writing course emphasizing research strategies, critical reading and thinking, and multi-staged writing processes in a variety of academic disciplines. (PR: English 101 or equivalent, and junior or above status.)

303 Appalachian Fiction and Poetry. 3 hrs.
The study of short fiction, novels, and poetry of literary merit, reflecting the intellectual, emotional and aesthetic experience of Appalachia, including works by Dickey, Arrow, Berry, Smith, Mason and others. (PR: ENG 102 or 302, or 2011)

306 Introduction to Drama. 3 hrs.
Study of drama as a literary type from the earliest periods to 1870, with emphasis on the development and analysis of form, structure, and language. (PR: ENG 102 or 302 or 201H)

307 Modern Drama. 3 hrs.
British and American plays since 1870, with their backgrounds in foreign literatures. (PR: ENG 102 or 302 or 201H)

Marshall University 1997-99 Undergraduate Catalog Courses of Instruction/2.39
Contemporary Drama. 3 hrs.
British and American plays since 1945. (PR: ENG 102 or 302 or 201H)

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: ENG 102 or 302 or 201H)

Biography. 3 hrs.
British, American, and world literature as seen through selected major biographies. The study of biography as a literary type. (PR: ENG 102 or 302 or 201H)

Science Fiction. 3 hrs. I, II.
Study of science fiction in its background, themes, types, analyses, and appreciation. (PR: ENG 102 or 302 or 201H)

Introduction to Poetry. 3 hrs.
Theory, prosody, analysis, and principal types, forms, and themes; selected examples through literary periods and cultures. (PR: ENG 102 or 302 or 201H)

Introduction to Novel. 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: ENG 102 or 302 or 201H)

English Literature to the Romantic Period. 3 hrs.
English Literature from Beowulf through Pope. (PR: ENG 102 or 302 or 201H)

English Literature from the Romantics to the Present. 3 hrs.
English Literature from the Romantics to the present. (PR: ENG 102 or 302 or 201H)

The Political Novel. 3 hrs.
Studies in English and American novels relating significantly to political themes. (PR: ENG 102 or 302 or 201H)

American Literature to 1860. 3 hrs.
American Literature from the Colonial, Eighteenth Century, Federal and Romantic Periods. (PR: English 102 or 302 or 201H)

American Literature, 1860 to the Present. 3 hrs.
American Literature from the late Nineteenth Century to the present. Not for literature majors. (PR: ENG 102 or 302 or 201H)

Teaching Shakespeare in Middle School and High School. 3 hrs.
Intensive study of the plays most often taught in grades 8-12, emphasizing pedagogy and teaching techniques needed by future middle school and high school teachers. (PR: ENG 102 or 302 or 201H)

Introduction to Short Story. 3 hrs. I, II, S.
Criticism and analysis of representative short stories, primarily British and American. (PR: ENG 102 or 302 or 201H)

Introduction to African-American Literature. 3 hrs.
A survey of major writers and types of literature. (PR: ENG 102 or 302 or 201H)

Film and Fiction. 3 hrs.
The relationship between literature and cinema: analysis of literary masterpieces and the films from which they are derived. (PR: ENG 102 or 302 or 201H)

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: ENG 102 or 302 or 201H)

Introduction to Creative Writing. 3 hrs.
An introduction to writing of fiction and poetry. (PR: ENG 102 or 302 or 201H)

Creative Writing: Poetry. 3 hrs.
Practice in writing poetry. (PR: ENG 360 or permission of instructor)

Creative Writing: Fiction. 3 hrs.
Practice in writing fiction. (PR: ENG 360 or permission of instructor)

Composition and Rhetoric for Teachers. 3 hrs.
Study of rhetorical invention and models of the composing process, with intensive practice in writing. (PR: ENG 102 or 302 or 201H)

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 102 or 302 or 201H)

Advanced Expository Writing. 3 hrs.
Reports, theses, briefs, abstracts and other expository types. Adapted to the needs of the individual student. (PR: ENG 102 or 302 or 201H)

Milton. 3 hrs.
Biographical and critical study, including Milton's English poetry and prose, and his literary and intellectual milieu. (PR: ENG 102 or 302 or 201H)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Shakespeare's Comedies, Tragicomedies, and Romances</td>
<td>3 hrs.</td>
<td>Intensive study of Shakespeare's comedies, tragicomedies, and late romances. Also includes the Sonnets and Venus and Adonis.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>411</td>
<td>Chaucer</td>
<td>3 hrs.</td>
<td>The poetry of Chaucer, chiefly the Canterbury Tales, in the light of medieval tradition and critical analysis.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>412</td>
<td>Shakespeare's Histories and Tragedies</td>
<td>3 hrs.</td>
<td>Intensive study of Shakespeare's Histories and Tragedies.</td>
<td>(PR: ENG 102 or 201H or 302)</td>
</tr>
<tr>
<td>413</td>
<td>English Novel to 1800</td>
<td>3 hrs.</td>
<td>Defoe, Richardson, Fielding, Smollett, and Sterne, with supporting study of their most important predecessors and contemporaries.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>414</td>
<td>Nineteenth Century English Novel</td>
<td>3 hrs.</td>
<td>Austen, Scott, the Brontes, Dickens, Thackeray, Hardy and others.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>415</td>
<td>Victorian Poetry</td>
<td>3 hrs.</td>
<td>Tennyson, Browning, Arnold and others.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>417</td>
<td>English Drama to 1642</td>
<td>3 hrs.</td>
<td>Non-Shakespearean English drama from its beginning to the closing of the theatres.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>420</td>
<td>Senior Seminar in Literature</td>
<td>3 hrs.</td>
<td>Advanced study of forms and movements. Individual research required. Limited to English majors with senior class standing. Capstone experience.</td>
<td>(PR: 27 hours in major)</td>
</tr>
<tr>
<td>421</td>
<td>American Literature to 1830</td>
<td>3 hrs.</td>
<td>Alternate Years. Study of American literature of the Puritan, Colonial, and Federal periods, including such authors as Jonathan Edwards, Edward Taylor, Benjamin Franklin, Phillis Wheatley, Washington Irving, and William Cullen Bryant.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>422</td>
<td>American Literature, 1830-1865</td>
<td>3 hrs.</td>
<td>Alternate Years. American literature of the Romantic Period, including such authors as Emerson, Poe, Melville, Hawthorne, Whitman, and lesser figures of the period.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>423</td>
<td>American Literature, 1865-1914</td>
<td>3 hrs.</td>
<td>Alternate Years. American literature of the Realistic and Naturalistic periods, including such authors as Howells, Twain, James, Dreiser, Dickinson, and Frost.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>425</td>
<td>Southern Writers</td>
<td>3 hrs.</td>
<td>The study of selected writers of the American South from the beginnings to the present with special attention on writers after 1920.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>433</td>
<td>Contemporary English Poetry</td>
<td>3 hrs.</td>
<td>Principal poetry since the Victorian period.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>434</td>
<td>Contemporary American Poetry</td>
<td>3 hrs.</td>
<td>Principal poetry since 1900.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>436</td>
<td>Medieval English Literature</td>
<td>3 hrs.</td>
<td>Old English elegiac and heroic poetry; Middle English lyrics and romances; the Ricardian and Malory.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>437</td>
<td>Tudor Literature: Poetry and Prose of the 16th Century</td>
<td>3 hrs.</td>
<td>Survey includes works by More, Skelton, Wyatt, Sidney, Spenser, Nash, Marlowe, Raleigh, Lyly, and Shakespeare, excluding drama.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>438</td>
<td>17th Century Literature: Poetry and Prose</td>
<td>3 hrs.</td>
<td>Survey includes Donne and the Metaphysical poets, the Cavalier lyricists, Bacon, Browne, Herbert, Jonson, Burton, Walton, Hobbes, and Bunyan.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>446</td>
<td>Drama of the Restoration and 18th Century</td>
<td>3 hrs.</td>
<td>Trends, movements, and dramatic types in the English theatre of this period.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>447</td>
<td>English Romantic Poets</td>
<td>3 hrs.</td>
<td>Emphasis on Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>450</td>
<td>Western World Literature to the Renaissance</td>
<td>3 hrs.</td>
<td>Major works (excluding English), with emphasis on Homer, the Greek Drama, Virgil, Dante, and Cervantes.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>451</td>
<td>Western World Literature Since the Renaissance</td>
<td>3 hrs.</td>
<td>Major works (excluding English and American), with emphasis on Racine, Moliere, Goethe and principal continental fiction.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>455</td>
<td>Literary Criticism</td>
<td>3 hrs.</td>
<td>Historical study, with application of principles.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
<tr>
<td>462</td>
<td>Restoration and Eighteenth Century English Poetry and Prose</td>
<td>3 hrs.</td>
<td>Includes works by Dryden, Swift, Pope, Johnson, Boswell, and Wollstonecraft. Emphasis on satire, biography, and literary criticism.</td>
<td>(PR: ENG 102 or 302 or 201H)</td>
</tr>
</tbody>
</table>
475 Introduction to Linguistics. 3 hrs. I, II.
The structural and descriptive approach to study of the English language. (PR: ENG 102 or 302 or 201H)

476 Modern Grammar. 3 hrs.
A descriptive analysis of the structure of present day American English, utilizing the basic theory of generative transformational grammar. (PR: ENG 102 or 302 or 201H)

480-483 Special Topics. 1-3 hrs. each.
(PR: Permission of chair)

485-488 Independent Study. 1-4 hrs. each.
(PR: Permission of chair)

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 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 instructor)

495H-496H Readings for Honors in English. 2-4; 2-4 hrs. I, II.
Open only to English majors of outstanding ability. Possible study areas include world literature, works of individual authors, etc. See Honors Courses. (PR: Permission of chair)

ENVIRONMENTAL SCIENCE (ES)

100 Introduction to Environmental Science. 3 Hrs.
A multi-disciplinary introduction to the Earth's environmental system to provide an understanding of global change and sustainability, and mutual interaction of the geosphere, biosphere, and humans.

200 Environmental Science Seminar I. 1.2 hrs.
This seminar will link the classroom materials with the reality of the workplace. Students will integrate multi-disciplinary information and knowledge through class discussions, writing projects, and presentations. (PR: ES 100)

280-283 Special Topics. 1-4 hrs.
Occasional offerings of current topics in environmental science, providing important supplementary material for participating students. (PR: Permission of instructor)

300 Environmental Science Seminar II. 2 hrs.
This second seminar will further link the classroom materials with industrial and environmental protection issues. Students will evaluate case studies representing different environmental perspectives. (PR: ES 200)

480-483 Special Topics. 1-4 hrs.
Occasional offerings of current topics in environmental science, providing important supplementary material for participating students. (PR: Permission of instructor)

485-488 Independent Study. 1-4 hrs.
An approved study of special interest concerning environmental science, under the supervision of a faculty member. (PR: Permission of instructor)

499 Capstone Project. 1-6 hrs.
An individualized environmental science capstone project, which will be planned and carried out under the supervision of a faculty member. (PR: Permission of instructor and minimum of junior standing)

FAMILY CONSUMER SCIENCES (FCS)

112 Clothing Construction. 2 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 Consumer Sciences the Profession. 1 hr.
Overview of the Family Consumer Sciences profession, its specialities, and the career path in Family Consumer Sciences. Focus is on professional growth and integration of specialties with a family focus.

202a Food Sciences Principles. 2 or 3 hrs.
Principles of food selection, preparation and preservation (PR: FCS majors only).

203 Meal Management. 3 hrs.
Problems involved in planning, preparing and serving nutritionally adequate meals. Emphasis on management of time, money and energy. (PR: FCS 110, 210)
Nutrition. 3 hrs. I, II.
Principles of human nutrition and their application in planning and evaluating dietaries for individuals and families.

Textiles. 2 or 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.

Advanced Clothing Construction. 2 or 3 hrs.
Experiments in construction techniques, fabrics and design compatibility. (PR: FCS 112 or an acceptable score on clothing construction pretest)

Visual Merchandising. 3 hrs.
Use of elements and principles of design to manipulate materials—props, background, lighting, mannequins, fabrics and signing—for three dimensional display. Includes business/commercial, retail and institutional display.

Fashion Merchandising Practicum. 3 hrs.
Involves application of coursework—processes, theories, systems,—at the post-sophomore level in the area of apparel or accessories retailing. (PR: Must have completed 15 hours of FCS coursework for placement)

Special Topics. 1-4 hrs.

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.

Family Consumer Sciences Education: Clinical Experience I. 1 hr. II.
Develops competence in using presentation skills in teaching by means of micro-teaching and conferences. Use of audio-visual equipment and graphics. (PR: EDF 218. CR: EDF 319)

Family Consumer Sciences Instructional Methods. 1 or 3 hrs.
Professional role; objectives; methods, materials, evaluations; planning educative programs for varied learners in various settings. (PR: For Education majors only, EDF 319 and FCS 305. CR: For Education majors only CI 470)

Socio-psychological Aspects of Clothing. 3 hrs.
Psychological, sociological, economic and aesthetic aspects of clothing selection. (PR: FCS majors only. Others by permission.)

Socio-psychological Aspects of Clothing. 1 hr.
Psychological, sociological, economic and aesthetic aspects of clothing selection. (PR: FCS majors only. Others by permission)

Intermediate Nutrition. 3 hrs.
Scientific principles of human nutrition; food sources of nutrients; planning and evaluating diets for healthy individuals. (PR: FCS 202, 210; CHM 211, 212, 217, 218; BSC 120)

Evaluation of Ready-To-Wear. 3 hrs.
Evaluation of ready-to-wear apparel from budget through couture price-point clothing. Analysis of construction, production and design for profitability and quality. (PR: FCS 112)

Housing. 2 or 3 hrs.
Influence of family needs, social and economic trends, and physical environment on housing; analysis of building materials and space utilization in housing.

Home Furnishings. 2 or 3 hrs.
Application of art elements and principles of design in selection, arrangement and use of furnishings and interiors of homes. (PR: ART 112 or consent of instructor)

Family Resource Management. 3 hrs.
Identification of management concepts with emphasis on principles and interrelationships within framework of the family.

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)

Maternal and Child Nutrition. 3 hrs.
Nutritional requirements during prenatal and early growth periods; surveys of nutritional status. (PR: FCS 210; CHM 204 or 212; BSC 228)

Foods of the World. 3 hrs.
Characteristics and cultural aspects of the foods of the world.

Advanced Nutrition. 3 hrs.
Metabolism of food nutrients as related to nutritional requirements of man. Reports of current research and other topics to add depth and perspective in nutrition. (PR: CHM 365 or concurrent; BSC 228; FCS 210)

Diet Therapy. 3 hrs.
Present day concepts of the relation of nutrition and diet to the prevention and treatment of disease. (PR: FCS 210; CHM 204 or 212; BSC 228; and for Dietetics majors FCS 403; CHM 365)
Quantity Food Production. 3 hrs.
Basic principles of quantity food selection, preparation and service. Laboratory application in local food institutions. (PR: FCS 110 and FCS 203 or consent of instructor)

The Vocational Home Economics Program. 2 or 3 hrs.
Vocational home economics at the secondary, post secondary and adult levels with emphasis on types and organization of programs, legislation, and groups served. (PR: EDF 319 and FCS 306)

Food Service Systems Management. 3 hrs.
Administration of food service in institutions. (PR: MGT 320 and FCS 203)

Nutrition in Cardiac Disease. 3 hrs. II.
Role of nutrition in cardiac rehabilitation. Teaching methods in working with families to improve patient compliance. (PR: FCS 210)

Nutrition in the Community. 3 hrs.
Identification of nutritional needs of a community and of programs that service these needs. Field experiences include surveys, nutrition education, observation and participation in health care delivery. (PR: FCS 210, 306, 404 or concurrent)

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, BSC 228; CHM 204 or 212)

Experimental Foods. 3 hrs.
Experimental study of chemical and physical factors affecting food preparation. (PR: FCS 110, 203; CHM 365)

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, 259, 270, 314 and 359)

Family Relationships. 3 hrs.
Relationships in the family during its life cycle, with some consideration of family life in other cultures.

Prenatal and Infant Care. 3 hrs.
Prenatal and postnatal care of the mother, development of the fetus and care of the infant throughout the first three years.

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: HST 101, 102 or 103 and ART 112 and 214)

Tailoring. 3 hrs.
Contemporary methods of custom tailoring with emphasis on suitable fabrics and construction processes for particular styles. (PR: FCS 213 or consent of instructor)

Household Equipment. 2 hrs.
Principles underlying the selection, use and care of household equipment.

Family Resource Management Laboratory. 3 hrs.
Home management laboratory to develop competencies in decision making, activity analysis, use of limited resources, and work simplification through individual and group analysis. (PR: FCS 303 or permission)

Cooperative Education in Family Consumer Sciences Program. 3 hrs.

Guidance of the Young Child: Practicum. 3 hrs.
Techniques of guidance of young children with emphasis on adult-child interaction. Laboratory observation required. (PR: FCS 303 or permission)

Parenting. 3 hrs.
Examination of current challenges, problems, and issues in the field; analysis of effective strategies for parenting.

Administration of Day Care Centers. 3 hrs.
Instruction and practice in the development of day centers for three and four year old children and administration of programs in these centers. Laboratory participation required. (PR: FCS 303)

Consumer Education. 2 or 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.

Family Consumer Sciences Education: Student Teaching in Family Consumer Sciences. 4-12 hrs.
Directed teaching in an approved vocational Family Consumer Sciences program in a cooperating middle/secondary and/or vocational-technical school (PR: FCS 306. PR or CR: FCS 406)

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, 270 and 359)
Professional 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.

Career Assessment Seminar in Family Consumer Sciences. 3 hrs.
Synthesizes previous work and education experiences applicable to Family Consumer Sciences related occupations. Includes individual assessment of competencies for teaching occupational cluster. Emphasizes planning for further development. (PR: Previous work experience required)

Medical Nutrition Therapy I. 3 hrs.
Principles of medical nutrition therapy in clinical primary care. Utilization of case studies to develop the ability to critically analyze assessment data and determine care plans. (PR: FCS 203, 403; BSC 228; CHM 365; Major Code 4013)

Medical Nutrition Therapy II. 3 hrs.
Introduction to nutritional care delivery in a hospital environment through application of nutrition principles in patient assessment. Interviewing, instruction, and documentation of normal and disease-related cases. (PR: FCS 403, 404; BSC 228; CHM 365; senior standing; permission)

Family Consumer Sciences Practicum. 1-3 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)

Family Consumer Sciences Practicum. 1-4 hrs.
Involves application of coursework—processes, theories, systems—at the senior level—in the management of resources within an operation related to the student’s area of study. (PR: Permission)

Special Topics. 1-4 hrs.
Independent study in a selected area of Family Consumer Sciences. May not be used to replace any listed course.

Independent Study. 1-4 hrs.

Fashion Merchandising Internship. 3 hrs.
Faculty supervised, off-campus contractual work-study arrangements with clothing/textiles related retail businesses. Must have completed 21 hours of Family Consumer Sciences coursework and 15 hours of business coursework before placement. (PR: FCS 270)

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)

FINANCE (FIN)

Personal Finance. 3 hrs. I, II, S.
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. (Not open to Business majors with junior or senior standing.)

Special Topics. 1-4 hrs.

Principles of Business Finance. 3 hrs. I, II, S.
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, ECN 253, ACC 216, and Junior standing)

Commercial Banking. 3 hrs. II.
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)

Real Estate Finance. 3 hrs.
A broad study of the principles of real estate media in relation to the instruments, investments, leasing, brokerage, management, development and appraisal. (PR: FIN 323)

Corporate Financial Management. 3 hrs.
Application of financial principles to corporate business problems. Computer analysis will be utilized where appropriate. (PR: FIN 323)

Financial Management of Health Care Organizations. 3 hrs.
Management of working capital, evaluation of financial data, capital budgeting, the capitalism process, and the study of third party reimbursement systems. (PR: FIN 323)

Principles of Investment. 3 hrs. I, II.
A study of risks and returns of investment media in relation to the primary investment objectives of the investors. (PR: FIN 323)
415 Case Studies in Banking. 3 hrs.
National and international banking cases involving problems of management of the money position, loans and investment portfolio, and capital adequacy. Simulates actual bank operations and analysis of bank performance. Capstone experience. (PR: FIN 325)
425 Security Analysis and Portfolio Management. 3 hrs.
Analytical procedures for valuing various financial securities and techniques for the creation and maintenance of portfolios. (PR: FIN 323)
435 Money Markets and Capital Formation. 3 hrs. II.
Study of federal monetary theory and practices, as well as federal fiscal policies. More emphasis will be placed on the activities of financial institutions than on single businesses or on individual investors. Included in the capital market area is the study in some depth of the operations of registered securities exchanges and the over-the-counter market. (PR: FIN 323)
440 International Finance. 3 hrs.
International financing techniques and the role of finance in multinational organizations. (PR: FIN 323)
470 Advanced Financial Analysis and Planning. 3 hrs.
Financial planning, working capital management, capital budgeting, divided policy and comprehensive problems. Capstone Experience. (PR: FIN 370)
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 students performance will be evaluated. (PR: Permission of Dean) (CR/NC)

FINE ARTS (FA)

101 Introduction to the Arts. 3 hrs. I. II. III.
An introduction to art, music and theatre which explores the relationships and distinctions among the arts.

FRENCH (FRN)

101-102 Elementary French. 3; 3 hrs. I, II, S.
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR for 102, French 101 or one unit credit of high school French or departmental examination)
150-151 Applied French. 1; 1 hr.
One hour credit is earned for each full semester of residence in the Modern Language House and/or individual applied work. Students agree to speak only the language in which they are enrolled while on the floor of the House and during MLH activities. (PR: Permission of Department)
161R-162R Elementary French Reading Approach. 3; 3 hrs. I, II.
Emphasis on rapid development of reading and comprehension skills through the recognition of patterns based on the act of reading French itself and intensive word study. Taught in English. Not open to majors. (PR for 162R: FRN 161R)
203 Intermediate French. 3 hrs. I, II, S.
Continuation on the intermediate level of the basic language skills; pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR for 203: FRN 102 or two units of high school French or departmental examination)
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.
263R Intermediate French Reading Approach. 3 hrs. I.
Emphasis on rapid development of reading skills in magazines, newspapers, and journals accompanied by review of verb systems and advanced grammatical principles. Not open to majors. (PR for 263R: FRN 162R)
264R Intermediate French Reading Approach. 3 hrs. II.
Emphasis on reading for comprehension in short stories, periodicals, and technical journals according to student interest. Not open to majors. (PR for 264R: FRN 263R)
280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: FRN 204)
Advanced Conversation. 3; 3 hrs.
Practical work with use of language laboratory and records. Emphasis is on oral skills with vocabulary building and refinement of pronunciation. (PR for 310: FRN 204 or four units of high school French. PR for 311: French 204).

Studies in Language Laboratory Techniques. 3 hrs.
Training in the use of laboratory equipment. Clinical practice in the use of laboratory facilities. 2 hour lab to be arranged. Open to education majors only. (PR: FRN 204)

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 for 315-316: FRN 204.)

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 204)

Seventeenth Century French Theater. 3 hrs.
Study of representative plays by the classical dramatists Corneille, Moliere, and Racine. This course is conducted entirely in French. (PR: FRN 204)

Eighteenth Century French Literature. 3 hrs.
Study of representative works by the philosophes, Montesquieu, Rousseau, Voltaire, and Diderot. The course will be conducted in French. (PR: FRN 204)

Nineteenth Century French Novel. 3 hrs.
A study of major novels chosen to illustrate the romantic, realistic, and naturalistic literary movements. (This course will be conducted in French. PR: FRN 204)

Twentieth Century French Novel. 3 hrs.
A study or representative 20th century French novels by Proust, Malraux, Sartre, Camus, Robbe-Grillet. The course will be taught in French. (PR: FRN 204)

French Civilization and Culture. 3; 3 hrs.
French Culture from prehistoric to modern times with emphasis on contemporary life and French institutions. This course is conducted in French, and full language credit is given. Capstone experience. (PR for FRN 405 or 406: FRN 204)

Special Topics. 1-4; 1-4; 1-4 hrs. I, II.
A course for advanced students sufficiently prepared to do constructive work in phases of the language or literature of interest to them. (PR: FRN 204 or permission)

Independent Study. 1-4; 1-4; 1-4 hrs.
(PR: FRN 204)

Readings for Honors in French. 2-4; 2-4 hrs. I, II.
Open only to French major of outstanding ability. See Honors Courses.

GEOGRAPHY (GEO)

Cultural Geography. 3 hrs. I, II.
A survey of major countries of the world in a regional context with emphasis on cultural elements that are significant to man.

Physical Geography. 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. 3 lec-2 lab.

Economic Geography. 3 hrs. I, II, S.
World geography with units built around specific products of agriculture, manufacturing, and mining, as related to human numbers, soil, climate, geology, and other factors of natural environment.

Geography of West Virginia. 3 hrs.
Transportation, population, mining, industry, and agriculture as related to climate, soils, land forms, and other natural environmental items.

Special Topics. 1-4; 1-4; 1-4 hrs.

Geography of Europe. 3 hrs.
Relationship between man's activities and natural environment studied by countries, with attention given to inter-relation of countries.

Geography of North America. 3 hrs.
Natural regional divisions emphasizing major economic activities and environmental factors with chief emphasis given to the United States.

Geography of South America. 3 hrs.
A study of settlement, transportation, manufacturing, agriculture, geopolitics, and natural resources of South American countries.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>314</td>
<td>Geography of Middle East</td>
<td>3 hrs.</td>
<td>A geographical study of agriculture, transportation, manufacturing, settlement, geopolitics, and natural resources of the Middle Eastern countries.</td>
</tr>
<tr>
<td>315</td>
<td>Geography of Africa</td>
<td>3 hrs.</td>
<td>Low latitude and lower middle latitude regions given relationship approach with national and sectional problems stressed.</td>
</tr>
<tr>
<td>317</td>
<td>World Geography Problems</td>
<td>3 hrs.</td>
<td>Agriculture, industry, mining and transportation studied on global basis. Physical geography introduced and regional climatic approach clarified.</td>
</tr>
<tr>
<td>320</td>
<td>Conservation of Natural Resources</td>
<td>3 hrs.</td>
<td>A study of the critical resources approached from the historic, geographical, ecological, and recreational viewpoints.</td>
</tr>
<tr>
<td>401</td>
<td>Historical Geography of the United States</td>
<td>3 hrs.</td>
<td>Study of coastal settlements, the population spread through Appalachia and the Mississippi Basin and the development of intermountain and Pacific Coast centers.</td>
</tr>
<tr>
<td>402</td>
<td>Geography of Appalachia</td>
<td>3 hrs.</td>
<td>A study of settlement, transportation, manufacturing, agriculture and resource potential.</td>
</tr>
<tr>
<td>403</td>
<td>Geography of Asia</td>
<td>3 hrs.</td>
<td>Special attention given activities and environment in representative continental countries and nearby islands.</td>
</tr>
<tr>
<td>405</td>
<td>Political Geography</td>
<td>3 hrs.</td>
<td>A systematic and regional survey of world political problems and international relations stressing studies of the United States, Europe, and the Soviet Union.</td>
</tr>
<tr>
<td>408</td>
<td>Geography of Mexico and Central America</td>
<td>3 hrs.</td>
<td>A geographical study of agriculture, transportation, settlement, geopolitics, and natural resources.</td>
</tr>
<tr>
<td>410</td>
<td>Urban Geography</td>
<td>3 hrs.</td>
<td>Study of city function, patterns, past and current problems confronting the city including planning, zoning, housing, and urban renewal.</td>
</tr>
<tr>
<td>412</td>
<td>Geography of Russia and CIS</td>
<td>3 hrs.</td>
<td>Geographical appraisal of cultural, political, and economic aspects of Russia and the Commonwealth of Independent States.</td>
</tr>
<tr>
<td>414</td>
<td>Methods and Techniques of Regional Planning</td>
<td>3 hrs.</td>
<td>Introductory planning with emphasis on methods, techniques, tools and principles necessary to accomplish objective regional planning.</td>
</tr>
<tr>
<td>415</td>
<td>Regional Planning and Development</td>
<td>3 hrs.</td>
<td>The philosophy, theories, and principles involved in planning of urban and rural areas. (PR: GEO 414 or permission of instructor)</td>
</tr>
<tr>
<td>416</td>
<td>Urban and Rural Land Use</td>
<td>3 hrs.</td>
<td>A study of the principles and techniques of urban-rural land use, and the problems and issues encountered in the practice of land use.</td>
</tr>
<tr>
<td>417</td>
<td>Coal Industries Studies: Past &amp; Present</td>
<td>3 hrs.</td>
<td>An interdisciplinary study for all facets of the coal industry within a historic perspective. Emphasis is placed upon coal industry of West Virginia and the tri-state region.</td>
</tr>
<tr>
<td>418</td>
<td>Geography for Teachers</td>
<td>3 hrs.</td>
<td>A study of elements of geography most essential for effective teaching of geographic content in professional education and the social studies.</td>
</tr>
<tr>
<td>420</td>
<td>Field Geography of West Virginia</td>
<td>3 hrs.</td>
<td>Representative areas in lumbering, mining, agriculture, and industry studied through field methods: Capstone experience.</td>
</tr>
<tr>
<td>425</td>
<td>Climatology</td>
<td>3 hrs.</td>
<td>A study of elements of weather and climate, methods of climatic classification, and distribution and characteristics of world climate regions.</td>
</tr>
<tr>
<td>429</td>
<td>Cartography</td>
<td>3 hrs.</td>
<td>Understanding principles and developing skills in the use of cartographic drafting equipment and in map making.</td>
</tr>
<tr>
<td>430</td>
<td>Cartography and Geographic Information Systems</td>
<td>3 hrs.</td>
<td>Introduction to computer use in mapping and geographic information systems.</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td>Special Topics. 1-4; 1-4; 1-4 hrs.</td>
</tr>
<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
<td>Independent Study. 1-4; 1-4; 1-4 hrs.</td>
</tr>
<tr>
<td>495H-496H</td>
<td>Reading for Honors in Geography</td>
<td>4 hrs.</td>
<td>Reading for Honors in Geography. 4 hrs. 1, II.</td>
</tr>
</tbody>
</table>

See Honors Courses.
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. I, S.
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.
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)

160 Energy and Mineral Resources of the Earth. 3 hrs.
A survey of mineral and energy resources (metals, industrial rocks and minerals, fossil and nuclear fuels, water, and soils), their geologic context, and environmental impact of their extraction and consumption.

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.
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)

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, CHIM 211, 212 and appropriate labs)

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)

410 Big Bend Field Excursion. 2 hrs.
Field trip to Big Bend National Park, Texas to study the structure, stratigraphy, igneous geology, metamorphic geology, paleontology and natural history of this national park. (PR: 12 hours of geology)

418 Invertebrate Paleontology. 4 hrs. I, Alternate years (even 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)

421 Petrology. 4 hrs. I, 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)

422 Economic Geology. 4 hrs. II, Alternate years (even numbers)
Origin, distribution and economics of the metallic and non-metallic ore deposits. 3 lec.-2 lab. (PR: GLY 201, 314, or consent)

423 Sedimentary Petrography. 4 hrs. I, Alternate years (odd numbers)
Megaoscopic and microscopic identification and a depositional and post depositional interpretation of the sedimentary rocks, 3 lec.-2 lab. (PR: GLY 201 and 314)
425 Geochemistry. 4 hrs. II, Alternate years (odd numbers)
Introduction to the principles of geochemistry. The application of chemistry to the study of the Earth and to geologic problems. Laboratory work includes analysis of rocks, soils, and waters.

426 Geophysics. 4 hrs. II, Alternate years (even numbers)
Development of seismic, gravity, magnetism, electrical and thermal methods to study the structure and dynamics of the earth. 3 lec.-2 lab. (PR: GLY 200, PHY 201, MTH 130)

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. Existing and student generated programs are used. 3 lec.-2 lab. (PR: 12 hrs. GLY, MTH 110 and 225, CIS 203)

451 Principles of Geomorphology. 3 hrs. I, Alternate years (odd numbers) and S.
Principles of identification and analysis of the world's surficial features in terms of stratigraphy, structure, processes, tectonics and time. 3 lec. (PR: GLY 110, 200, 210L or consent; CR: GLY 451L for majors, elective for non-majors)

451L Principles of Geomorphology Laboratory. 1 hr. I, Alternate years (odd numbers) and S.
For Geology majors, corequisite with Geology 451. For non-majors, elective. (PR or CR: GLY 451)

455 Hydrogeology. 3 hrs. I, Alternate years (odd 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. I, Alternate years (odd numbers)
A two-hour laboratory of practical hydrogeologic problem solving. For non-majors, elective. (CR: Geology 455 for majors)

456 Environmental Geology. 3 hrs. II, Alternate years (even numbers)
Through lecture and demonstration, the interactions of man and the earth, dealing with natural resources, natural hazards, cultural and urban geology and future planning. (PR: GLY 200)

456L Environmental Geology Laboratory. 1 hr.
A laboratory to complement GLY 456; Environmental Geology, dealing with current solutions to environmental problems through real life exercises. (PR: GLY 200, 210L, 451, 451L)

457 Engineering Geology. 3 hrs.
A course for geology majors employing geological principles and methods to solve geotechnical engineering problems. (PR: GLY 200, 210L, 451 and 451L, or by permission of the instructor)

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 or 2 units of high school German or department exam.)

232 Intensive German II. 4 hrs. II.
Intensive pronunciation, conversation, reading and composition exercises with emphasis on aural/oral development. 4 lec.-1 lab. (PR: GER 230 or 2 units of high school German or departmental examination)

234 Intensive German III. 4 hrs.
Intensive pronunciation, conversation, reading, and composition exercises with emphasis on aural/oral development. 4 lec.-1 lab. (PR: GER 232 or 3 units of high school German or departmental examination)

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.
(PR: GER 234)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Drama of the 19th and 20th Centuries</td>
<td>3 hrs.</td>
<td>3</td>
</tr>
<tr>
<td>302</td>
<td>Prose of the 19th and 20th Centuries</td>
<td>3 hrs.</td>
<td>3</td>
</tr>
<tr>
<td>314</td>
<td>Studies in Language Laboratory Techniques</td>
<td>2 hrs.</td>
<td>2</td>
</tr>
<tr>
<td>315-316</td>
<td>Advanced Grammar and Composition</td>
<td>3 hrs.</td>
<td>3</td>
</tr>
<tr>
<td>405-406</td>
<td>German Civilization and Culture</td>
<td>3 hrs.</td>
<td>3</td>
</tr>
<tr>
<td>417-418</td>
<td>Survey of German Literature</td>
<td>3 hrs.</td>
<td>3</td>
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<tr>
<td>419-420</td>
<td>German Literature of the Classical Age</td>
<td>3 hrs.</td>
<td>3</td>
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<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>495H-496H</td>
<td>Readings for Honors in German</td>
<td>2-4 hrs.</td>
<td>2-4</td>
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<tr>
<td>GREEK (GRK)</td>
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<tr>
<td>201-202</td>
<td>Ancient Greek First Year</td>
<td>3 hrs.</td>
<td>3</td>
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<tr>
<td>301-302</td>
<td>Ancient Intermediate Greek</td>
<td>3 hrs.</td>
<td>3</td>
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<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>HEALTH EDUCATION (HE)</td>
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<tr>
<td>220-221</td>
<td>Personal Health I and II</td>
<td>1-4 hrs.</td>
<td>1-4</td>
</tr>
<tr>
<td>222</td>
<td>First Aid, Safety and Survival Education</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>280-283</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>321</td>
<td>The School Health Program</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>325</td>
<td>School and Community Health</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>426</td>
<td>Curriculum in Health Education</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>430</td>
<td>Health Issues in Physical Education and Athletics</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
<td>1-4</td>
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</table>

Marshall University 1997-99 Undergraduate Catalog

Courses of Instruction/251
HISTORY (HST)

101 The Great Civilizations to 1300. 3 hrs. I, II.
Comparative study of the origin and course of major civilizations focusing on the Middle East, India, China, and the West.

102 The World and the Rise of the West, 1300 to the Mid-19th Century. 3 hrs. I, II.
An interdisciplinary analysis of the foundations of Western development.

103 The Twentieth Century World. 3 hrs. I, II.
Major world developments and trends from the 19th century to the present and their implications for the future.

103H Twentieth Century World - Honors. 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: 3.0 GPA perm.)

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.

202 History of Medicine. 3 hrs.
A survey of the major developments in the theory and practice of medicine from the Renaissance to the 20th century.

205 English History to 1642. 3 hrs. I.

206 English History Since 1642. 3 hrs. II.
A continuation of English History 105. Special attention is given to the development of ministerial government and to the growth and decline of the British Empire.

208 History of Third World. 3 hrs.
A comparative survey of selected Third World Countries focusing on imperialism, colonialism and present developmental efforts.

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.

221 War in Modern Times. 3 hrs.
Emphasis upon trends in military thought and practices in western civilization. Special attention to the two world wars of the Twentieth Century.

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. 3 hrs. I, II, S.
A general survey from the discovery in 1492 through the period of Reconstruction. Required of History majors.

231 American History Since 1877. 3 hrs. I, II, S.
A general survey since Reconstruction. Required of History majors.

231H American History Since 1877 - Honors. 3 hrs.
A general survey since Reconstruction for the superior student. (PR: 3.0 GPA.)

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.

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. I.
Examines the American military tradition from the colonial period to the present with particular emphasis on the Twentieth Century.

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.

312 African-American History, 1619 to Present. 3 hrs.
A survey of African-American History from African and West Indian origins to the present.

317 History of U.S. Immigration. 3 hrs.
A study of America's unprecedented "melting-pot" heritage via the personal and collective experiences of immigrant groups and how they fared socially, economically and politically in the 19th and 20th centuries.
Religion in America. 3 hrs.
The rise and development of religion and of religious thinking in America. (Same as Religious Studies 323)

American Colonial History. 3 hrs.
A study of the historical development of the English colonies in America.

American Legal History. 3 hrs. I, II.
Historical development of American law in areas ranging from slavery and racial discrimination to civil liberties and crime and punishment.

History of Mentalities. 3 hrs.
This course provides an introduction to the literature and methods of the history of mentalities which is the study of the world views and activities of ordinary, largely inarticulate peoples.

American Labor History. 3 hrs.
The history of the American labor movement.

China in the 20th Century. 3 hrs.
Traces China's history from the turbulent close of the dynastic era at the end of the 19th century through the present Communist period.

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.

Senior Seminar. 3 hrs. II, S.
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: Senior standing or by permission.)

American Intellectual History 1865 to Present. 3 hrs.
A critical examination of intellectual, creative, and literary movements in the modern era.

American Urban History. 3 hrs.
Study of the political, economic, social, and intellectual impact of the city upon American history, and the impact of history upon the growth of American urbanization.

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.

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.

Tudor and Stuart England, 1450-1688. 3 hrs.
A history of England under the Tudors and Stuarts, focusing primarily demographic, social, cultural, and political developments.

American Revolution. 3 hrs.
A varied view of the American Revolution and its impact on the American people.

Conquering the Continent: America's Frontier Experience. 3 hrs.
A survey of the American frontier experience with particular emphasis on the fate of the American Indian, the environment and the character of the American-created culture.

American Social and Cultural History 1607 to Present. 3 hrs.
A study of the changes and continuities in American Social Cultural History from 1607 to present.

History of the Old South, 1492-1860. 3 hrs. Alternate Years.
The History of the Old South is a study of the political, economic, social, and cultural conditions in the South that led to the development of the South as a distinct section in the United States.

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.

History of the New South, 1877 to the Present. 3 hrs.
A study of the political, economic, social, and cultural changes in the South after Reconstruction, which explains conditions in the contemporary South.

American Social Movements. 3 hrs.
A study of the social movements which have influenced the course of American History. Includes abolition, women's rights, Progressivism, civil rights.

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.

The French Revolution and the Napoleonic Era. 3 hrs.
Society and government in Europe before the French Revolution and the influence of the enlightenment; ideas and changes introduced by the revolution and Napoleon and their effect on the institutions and economy of Europe.
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. with special emphasis on the modern period.

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.

429 Russia to 1917. 3 hrs. II.
A survey of Russian history to 1917 which examines Russia before the Russians, Kiev, Poles, Appanage Russia, Muscovite Russia and Imperial Russia.

430 Soviet Russia. 3 hrs. I, S.
A continuation of History 429 which examines the development of Soviet Russia from its beginnings to the present. Emphasis is placed upon political and economic changes in the Soviet system and on Communist expansion in Europe and Asia.

431 America in the Gilded Age. 3 hrs.
A study of America's transformation from a rural, agrarian nation into an urban, industrial world power; the final destruction of the American Indian; the settlement of the West; and the farmers' revolt.

432 America Matures 1900-1945. 3 hrs.
An examination of the social, political, and economic trends in the United States in the first half of the 20th century, emphasizing social upheavals, conflicts, and reform movements at home and abroad.

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.
Begin with an overview of nineteenth century Japan and stresses the twentieth century rise of Japan to the position of world power.

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)

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.

INSTRUCTIONAL TECHNOLOGY AND LIBRARY SCIENCE (ITL)

115 Introduction to Library Skills. 1 hr. I, II.
Prepares students to use the University Library, to become familiar with basic reference sources, and to utilize bibliographic tools and data bases in search strategies. Not open to library science majors.

280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Consent of department chair).

365 Orientation to Instructional Technology. 1 hr. I, II, S.
Utilization of basic audiovisual equipment and production of simple graphic aids.

370 Practicum (Field Work). 1-4 hrs.
Practical experience in libraries, audiovisual centers, media centers, or related areas adapted to the student's background, experiences, and future occupational and professional goals.

401 History of Libraries and Informational Retrieval Systems. 3 hrs.
Study of the development of libraries and information-retrieval technology, from early times to the present, with emphasis on the impact of computer-based systems.

254/Courses of Instruction Marshall University 1997-99 Undergraduate Catalog
Reference & Bibliography. 3 hrs.

Cataloging. 3 hrs.
Fundamentals of cataloging and classification, applying AACR2, the Dewey Decimal system, and related aids to the organization of library materials. Implications of new technology for technical services will be addressed.

Library Organization and Administration. 3 hrs.
Principles of administration for elementary and secondary school library-media centers and public libraries, including personnel, facilities, budgets, program planning and evaluation, publicity and public relations, audiovisual equipment and materials, computer hardware and software, and methods and materials for teaching library skills.

Techniques for Storytelling. 3 hrs.
Techniques for storytelling intended primarily for public librarians and public school librarians.

Library Practice (Field Work). 4-6 hrs. (C/NC)
Practical experience in the application of techniques of library service, adapted as far as possible to the student's needs. (PR: ITL 415, 420, and 425. CR: CI 450, except for students in a Comprehensive Subject Specialization or the Elementary Education program)
NOTE: Students must file an application for permission to enroll in Library Practice. Applicants must follow the same procedure as prescribed for Student Teaching.

Utilization of Instructional Technology. 3 hrs.
Utilization of instructional media materials, equipment and techniques.

Production of Instructional Materials. 3 hrs.
Basic techniques in making slides, photographs, dry and wet mountings, transparencies, posters and similar graphic instructional materials.

Basic Media Skills Development for Instructional Design. 3 hrs.
Basic techniques in producing and using a variety of audiovisual aids, i.e., photography, scripting, developing logos, audio-recording, and layout design of manuals. This course also prepares one to produce a slide-tape presentation.

Computer Graphics in Instructional Technology. 3 hrs.
A basic course designed to assist the student in becoming familiar with a variety of software graphics packages.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission)

Workshop in Instructional Technology. 1-4; 1-4; 1-4; 1-4 hrs.

Readings for Honors in Instructional Technology. 1-3; 1-3 hrs.

INTEGRATED SCIENCES (ISC)

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)

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)

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)

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)

Global Warming. 4 hrs.
Model the social, economic, and scientific data using algebra as it relates to global warming. (PR: MTH 121 or higher except MTH 400 or MTH 401)

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)
280-283 Special Topics. 1-4 hrs.
(PR: Mathematics course above MTH 120 excluding MTH 400 and MTH 401).

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)

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 Chi­
nese characters, used in context. (PR: JPN 102)

204 Intermediate Japanese IV. 3 hrs.
Development of practical conversational skills, reading for comprehension, and directed composi­
tions. (PR: JPN 203).

JOURNALISM AND MASS COMMUNICATIONS (JMC)

100 Fundamentals of Journalistic Writing and Editing. 3 hrs. I, II, S.
Preparatory course designed to develop writing and editing skills specifically as they relate to profes­
sional journalistic/mass communications techniques and practices. Required of students scoring less
than 77 on School- administered language-skills test. Does not count toward graduation.

101 Survey of Journalism and Mass Communications. 3 hrs. I.
Examines important facets of mass communications, including newspaper, magazine, broadcast jour­
nalism, radio-television advertising and public relations. Designed to provide a critical overview of
the mass media. Includes guest speakers.

102 Information Gathering and Research for the Mass Media. 3 hrs. I.
Information and research techniques used by media professionals, including academic, community
and political sources. Course covers interviewing, formal research and computer-assisted information
gathering. (PR: JMC 101)

201 Writing for the Mass Media. 3 hrs. I, II, S.
Techniques of journalistic and mass communications writing designed to develop the basic writing
skills for the print and broadcast media. (PR: Typing 30 wpm, JMC 101, and passage of JMC Language
Skills Exam or JMC 100 with at least a C)

230 General Photography. 3 hrs.
Introduction to general photography, with emphasis on composition, camera techniques, film develop­
ing and print making.

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)

240 Basic Broadcast News. 3 hrs. I, II.
Introduction to techniques of radio and television news broadcasting, news room organization and
operation, history and ethics of broadcast journalism. (PR: JMC 201)

241 Graphics of Communication. 3 hrs. I, II, S.
Creative and practical aspects of typography, layout and design of printed communication. (PR: Keyp­
boarding proficiency)

245 Fundamentals of Advertising. 3 hrs.
Organization of mass media advertising departments and their relationships to advertising agencies
and media representatives. An examination of the practices and problems of the three areas. (PR: Sophomore standing)

250 Yearbook Editing and Management. 3 hrs.
Study and practice of the editing and management functions of a yearbook, including planning, bud­
geting and promotion. A laboratory class for the Chief Justice. Marshall University’s yearbook.

272-273 Practice in Radio. 1 hr.
Staff responsibility on campus broadcast facilities, WMUL-FM. (PR: Written permission before regis­
tration 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 Advanced News Reporting. 3 hrs. I, II.
Practice in gathering and writing news for the newspaper. Emphasis is placed on beat assignment.
reporting, interviewing techniques, and some specialized reporting. A laboratory class in which students write for The Parthenon, the university student newspaper. (PR: JMC 102, 201)

302 Newspaper Editing and Design. 3 hrs. I, II.
Advanced course in newspaper copy editing, headline writing and design. Laboratory instruction and experience on the university newspaper, The Parthenon. (PR: JMC 241 and 301)

304 In-depth Reporting. 3 hrs. I.
Study and practice of research methods and writing techniques for in-depth reporting on topical issues. (PR: JMC 301)

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.
Specialized training in the interpretive skills of announcing and newscasting. (PR: JMC 101)

332 Introduction to Video Production. 3 hrs.
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.
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, JMC 331)

350 Television Reporting. 3 hrs. I.
Practice in compiling, writing, and producing news for broadcasting. (PR: JMC 240, 301 or permission)

351 Television News Production. 3 hrs. II.
Examination of and practice in using skills required by the broadcast journalist; writing, editing and announcing. Class makes use of university broadcast facilities and WPBY-TV as available. Capstone experience. (PR: JMC 350)

360 Photojournalism I. 3 hrs. I, II.
Methods of taking photographs for newspapers and magazines and picture editing. Laboratory work in developing and printing required. Enrollment limited to 20 students with journalism and advertising majors given enrollment priority.

372-373 Practice in Radio or Television. 1 or 2 hrs. Staff responsibility on campus broadcast facilities WMUL-FM or WPBY-TV. Capstone experience. (PR: Written permission before registration and satisfactory completion of one year of service on WMUL)

382 Advertising Copywriting. 3 hrs. I
Practice in obtaining material and writing copy for advertisements in all media. (PR: JMC 201; JMC 245 or MKT 341)

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)

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)

402 Law of Mass Communications. 3 hrs. I, S.
Legal aspects of mass communications as they apply to the professional journalist. (PR: Junior standing)

404 History of American Journalism and Mass Communications. 3 hrs. I, 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 Advertising Research. 3 hrs.
Lectures, readings, discussions and projects relating to research used in campaign preparation and syndicated media resources. Students may select areas of special interest.

410 Magazine Editorial Practices. 3 hrs. I.
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)

412 Mass Media Sales. 3 hrs.
A survey of the requirements, relationships, and functions of mass media sales in the context of the media buying environment.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>414</td>
<td>Reporting Public Affairs</td>
<td>3 hrs.</td>
<td>Instruction in reporting local, state, and federal government; politics, finance, and labor; social environmental issues and other areas, with emphasis on background and interpretation. Course includes field trips and guest speakers. (PR: JMC 301)</td>
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<tr>
<td>425</td>
<td>Advertising Campaigns</td>
<td>3 hrs.</td>
<td>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 382, 383, 385)</td>
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<tr>
<td>428</td>
<td>Supervision of School Publications</td>
<td>3 hrs.</td>
<td>A comprehensive study of advising and producing school publications, with emphasis on methods for teachers of journalism. (PR: Permission)</td>
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<tr>
<td>430</td>
<td>Magazine Article Writing</td>
<td>3 hrs.</td>
<td>Fundamentals of researching and writing the popular, factual magazine article; techniques of selling articles to magazines (PR: Junior standing)</td>
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<tr>
<td>432</td>
<td>Corporate and Instructional Video</td>
<td>3 hrs.</td>
<td>Development of the use of video communication and instruction in business, agencies, and education. Production and utilization of video units for specific objectives.</td>
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<td>433</td>
<td>Radio-Television Programming</td>
<td>3 hrs.</td>
<td>Principles of programming, including audience analysis, production, purchase, and scheduling of various formats. (PR: JMC 101)</td>
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<tr>
<td>434</td>
<td>Advanced Video</td>
<td>3 hrs.</td>
<td>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)</td>
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<tr>
<td>436</td>
<td>International Communications</td>
<td>3 hrs.</td>
<td>Development of various systems of mass communications and comparison with the United States.</td>
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<td>437</td>
<td>Public Relations Writing</td>
<td>3 hrs.</td>
<td>Theory and practice of various writing challenges encountered by public relations practitioners. Some consideration of publications design. (PR: JMC 201, 241 and 330)</td>
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<td>438</td>
<td>Public Relations Case Studies</td>
<td>3 hrs.</td>
<td>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)</td>
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<td>439</td>
<td>Public Relations Campaign Management</td>
<td>3 hrs.</td>
<td>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)</td>
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<tr>
<td>440</td>
<td>Mass Communication Ethics</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>445</td>
<td>Advertising in Modern Society</td>
<td>3 hrs.</td>
<td>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)</td>
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<tr>
<td>450</td>
<td>Contemporary Issues in Radio and Television</td>
<td>3 hrs.</td>
<td>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)</td>
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<tr>
<td>455</td>
<td>Women, Minorities and the Mass Media</td>
<td>3 hrs.</td>
<td>A seminar that explores the portrayals and participation of women and people of color in the mass media.</td>
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<tr>
<td>460</td>
<td>Media Management</td>
<td>3 hrs.</td>
<td>Problems and practices in management affecting all departments of the mass media including labor and personnel, editorial, business, and production. (PR: Junior standing)</td>
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<tr>
<td>470</td>
<td>Professional Practicum</td>
<td>1-4 hrs.</td>
<td>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)</td>
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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.

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.

495H-496H Reading for Honors in Journalism and Mass Communications. 4; 4 hrs. I, II.

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)

240 Elements of Prose Composition. 3 hrs.
(PR: LAT 204 or 3 units of high school Latin)

280-283 Special Topics. 1-4; 1-4; 1-4 hrs.
The following courses represent the major authors and genres of Latin Literature from its beginnings in the second century B.C. (Roman Comedy) to the end of the first century AD (Excites). Roman history is chronicled by Live and Tastes, as well as by the contemporary accounts of Caesar and Cicero. Aspects of Roman life, society, and values appear in the comedies of Plautus and Terence; the poetry of Catullus, Horace, Propertius, and Tibullus; the satires of Horace, Martial and Juvenal; and the letters of Cicero and Pliny. Vergil’s epic poem brings all these qualities together and provides a unique look at the complex character of a culture that dominated the Mediterranean world for six centuries.

The courses below are offered in a cycle of six years. Prerequisites for all 300-400 courses: Latin 204 or permission.

303 Caesar’s Commentaries. 3 hrs.
A close reading in Latin of the commentaries of Julius Caesar. (PR: Latin 204 or equivalent)

304 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).

305 Cicero: Speeches. 3 hrs.
A close reading in Latin of one of the political or court speeches of Cicero. (PR: Latin 204 or permission)

306 Horace: Odes, Epodes, Epistles. 3 hrs.

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)

309 Livy’s History of Rome. 3 hrs.

311 Readings in Ovid. 3 hrs.
Close reading in Latin of selections from Ovid’s erotic and epic poetry. (PR: Latin 204 or permission)

403 Roman Comedy. 3 hrs.

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)

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 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.

480-483 Special Topics in Latin. 1-4; 1-4; 1-4; 1-4 hrs. I, II.

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.

495H-496H Honors in Latin. 4; 4 hrs. I, II.
Open only to Latin majors of outstanding ability. See Honors Courses.
Capstone Experience. I, II. 0 hrs.
A graduation requirement (completion of senior portfolio) required of all seniors in Latin A.B. program enrolled in final required advanced Latin course, LAT 404, 408, 409, 410. (CR: LAT 404, 408, 409, or 410; PR: 15 hrs. Latin above LAT 204)

LEGAL ENVIRONMENT (LE)

207 Legal Environment of Business. 3 hrs.
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.
A continuation of Accounting 207. Emphasizes in-depth case study of the law of commercial paper, business organizations, security, and real and personal property. (PR: LE 207)

309 Consumer Protection. 3 hrs.
An in-depth study of current consumer protection problems facing the consumer and business. Emphasis will be placed on current Federal and State statutes including the U.C.C., F.T.C.A., C.C.P.A. and W.V.C.C.P.A. (PR: LE 207)

351 Legal Aspects of Health Care Organizations. 3 hrs.
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 and MGT 350)

409 Corporate Process. 3 hrs.
Review of taxation of business enterprises, private methods of corporate controls regulation of securities, business acquisitions, pricing, compensation plans, relations with employees, administrative agency procedures and business in financial difficulty. (PR: LE 207; FIN 323).

MANAGEMENT (MGT)

100 Introduction to Business. 3 hrs.

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.
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)

320 Principles of Management. 3 hrs. I, II, S.
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.

320H Principles of Management Honors. 4 hrs.
An accelerated course for specially selected juniors. (PR: ACC 215 and 216; ECN 250 and 253)

350 Health Care Organizations and Management. 3 hrs.
A study of the structure and function of several components of Health Care Organizations and their interrelationships.

354 Health Care Services and Facilities Management. 3 hrs.
A study of planning and organizing of medical services and support departments and buildings, facilities, and equipment management. (PR: MGT 350)

360 Introduction to Small Business Management. 3 hrs.
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.

418 Statistical Analysis and Survey Design. 3 hrs.
Methods of constructing designs for survey investigation; methods of estimation, and questionnaire design; nonparametric methods; experimental design; factorial experiment; regression and correlation; multivariate analysis. (PR: MGT 218)

419 Business and Society. 3 hrs.
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.
Operations Management. 3 hrs.
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 break-even analysis, inventory models, transportation models, network analysis. Capstone experience (PR: MGT 218)

Human Behavior in Organizations. 3 hrs.
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)

Organizational Change. 3 hrs.
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)

Personnel Management. 3 hrs.
A study of basic methodology, organizational structure, and techniques of manpower management involved in recruitment, selection, training, wage and salary administration, and personnel assessment.

Industrial Relations. 3 hrs.
A managerial perspective of the relationships between organized labor and management. Topics include: union organization and recognition, collective bargaining processes, grievance procedures, and current trends in labor-management relations.

Management Science. 3 hrs.
Quantitative approaches to management decision making. Topics include decision theory, linear programming, transportation and assignment models, inventory systems PERT and CPM network analysis models, queuing theory, simulation and game theory. (PR: MGT 218)

Business Research. 2 hrs.
Under the direction of an advisor, the student makes a study of a topic related to his field of specialization and submits a written report. (PR: Senior standing)

Trends in Health Care Delivery. 3 hrs.
Discussion of trends in Health Care Delivery in the United States and related public policies and their implications to society.

Health Care Policy Seminar. 3 hrs.
An integrative discussion course on current problems and future policies and strategies as they are related to facilities planning and utilization, staffing and organization and providing quality health care to community. Capstone course (PR: MGT 320, MKT 340, ACC 216, ECN 253, LE 207, MGT 218, senior standing)

Planning of Health Care Delivery Systems. 3 hrs.
Application of systems approach to evaluation of current health care services and for future planning decisions.

Strategic Management. 3 hrs.
The integrative capstone course concerning theory and practice of top management's 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, ACC 216, ECN 253, LE 207, MGT 218, Senior Standing)

Strategic Management Honors. 4 hrs. II.
An accelerated course for preselected, exceptional seniors majoring in business administration requiring extensive supervised works. Through case analysis and problem-solving, it will integrate the knowledge acquired in previous courses. Capstone course. (PR: MGT 320, MKT 340, FIN 323, ACC 216, ECN 253, LE 207, MGT 218, Senior Standing)

Management of Small Business. 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 320, MKT 340, FIN 323; CR: MGT 423)

Health Care Practicum I. 4 hrs. C/NC
Field experience in management of Health Care Operations. (PR: Permission of Division Head)

Health Care Practicum II. 4 hrs. C/NC
Field experience in management of Health Care Organizations. (PR: Permission of Division Head)

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.

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.

Marshall University 1997-99 Undergraduate Catalog Courses of Instruction/261
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 students performance will be evaluated. (PR: Permission of Dean)

495H-496H Readings for Honors in Management. 2-4; 2-4 hrs.
Open only to students of outstanding ability. See Honors Courses.

MANAGEMENT INFORMATION SYSTEMS (MIS)

209 Visual Basic II. 3 Hrs.
Continuation of Visual Basic I, emphasis is on data structures (databases, queues, sorts, link-lists) and programming in a Windows environment. Programming projects will be oriented toward solving real-world business problems. (PR: CSD Visual Basic I)

290 Principles of Management Information Systems. 3 hrs.
To develop and use decision driven information systems. Emphasis on MIS/DDS applications common to business environments. Importance of communicating effectively with professional systems development groups will also be stressed.

310 Business System Analysis and Design. 3 hrs.
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.

330 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. (PR: MIS 310)

340 Database Management Systems. 3 hrs.
A study of database design, data structures, and database administration in a business environment. File processing with multiple databases will also be taught.

410 Business Telecommunication Systems. 3 hrs.
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.

430 Business Decision Support Systems. 3 hrs.
A study of decision support systems (DDS) in terms of building and providing end-user support for managerial decision making. Advanced topics will include computer interface design and artificial intelligence. (PR: MIS 340)

440 Business Systems Development Project. 3 hrs.
Continuation of the techniques and concepts learned in MIS 330 and MIS 340 courses. Students will be required to design, develop, and implement an information system. (PR: MIS 209)

441 Strategic Management Information Systems. 3 hrs.
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 (PR: Senior Standing)

MARKETING (MKT)

231 Principles of Selling. 3 hrs.
Elements of successful techniques and salesmanship designed for individuals who must influence or persuade, actuate, or lead other individuals now or in the future.

340 Principles of Marketing. 3 hrs.
Institutions, channels of distribution, functions, federal regulation, and economics of marketing.

341 Advertising Management. 3 hrs.
A managerial analysis of the principles and practices of advertising from the viewpoints of the consumer, the firm, the industry, and the economy. Special emphasis is given advertising in relation to its role in the marketing mix. (PR: MKT 340)

344 Retail Management. 3 hrs.
Management of retail establishments including successful retail merchandising, stock control, buying, pricing, marketing, advertising, promotion, displaying, credit, and selling of goods and/or services. (PR: MKT 340)

349 Principles of Domestic Transportation. 3 hrs. 1.
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.

262/Courses of Instruction Marshall University 1997-99 Undergraduate Catalog
Physical Distribution. 3 hrs.
Introduction to the activities concerned with the efficient movement of products from the source of raw materials supply, through production to the ultimate consumer. These activities include procurement, inventory control, materials handling, transportation, order processing, site determination, warehousing and customer service.

Traffic Management. 3 hrs.
Concerned primarily with the function of buying transportation service. Includes the mechanics of transportation pricing and detailed coverage of services legally includable in the price.

International Marketing. 3 hrs.
Designed to be a student's first exposure to foreign commerce and marketing in particular. Stresses cultural/environmental aspects and the integration of the regular foreign markets in strategic market planning. (PR: MKT 340)

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.

Consumer Behavior. 3 hrs.
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.

Sales Management. 3 hrs.
Policies and procedures pertaining to product planning and pricing, choice of market, planning sales effort, and the control of sales operations. (PR: MKT 340)

Market Research. 3 hrs.
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)

Transportation Law and Public Policy. 3 hrs.
Comprehensive review of the regulation of carriers in transportation in general. Comparison of the principal transportation regulatory acts, functions of the procedure before the several regulatory commissions.

Carrier Management. 3 hrs.
Management of transportation carriers including the unique constraints faced by such firms due to the regulatory system, transportation competition, route structures, ownership patterns, pricing and rate making.

Marketing Management. 3 hrs.
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 and senior standing)

Special Topics. 1-4 hrs.
Study of an advanced topic not normally covered in other courses. Marketing majors only, with permission of division head.

Independent Study. 1-4 hrs.

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 a marketing elective. (PR: Permission of Dean)

Readings for Honors in Marketing. 2-4 hrs.
Open only to students of outstanding ability. See Honors Courses.

MARKETING EDUCATION (MKE)

Introduction to Marketing Education. 3 hrs. I.
The course is planned to give prospective Marketing Education Teacher-Coordinators an overview of the Marketing Education Program: its history and development, its mission, premises, and objectives, and activities of a Marketing Education program and requirements for persons employed in this field.

Special Topics. 1-4 hrs.

Curriculum Marketing Education. 3 hrs. I.
A study of the structure of occupations for the purpose of developing competencies in career development and curriculum development. Students will analyze marketing jobs in terms of specific and related job duties and competencies and will investigate career continuums.
460-463 Professional Development. 1-4 hrs. I, II, S.
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. Identifying course titles will vary. CR/NC grading.

480-483 Special Topics. 1-4 hrs.

485-488 Independent Study. 1-4 hrs.

MATHMATICS (MTH)

120 Algebra. 3 hrs. I, II, S.
Review of algebraic concepts including real and complex numbers, exponents and radicals, polynomials and rational expressions, and logarithms. Solutions of equations and inequalities. Graphs of Relations and Functions. (PR: One year of high algebra and at least 19 on Mathematics ACT or MAT 097)

121 Concepts and Applications of Mathematics. 3 hrs.
A course for non-majors that develops quantitative reasoning skills. Topics include logical thinking, problem solving strategies, linear modeling, beginning statistics and probability, exponential and logarithmic modeling, financial and geometry concepts. (PR: MAT 097 or Math ACT 19 or above)

122 Plane Trigonometry. 3 hrs. I, II, S.
A study of the trigonometric functions, graphs of the trigonometric functions, identities, equations, inverse trigonometric functions, vectors, complex numbers, and applications. (PR or CR: MTH 120 or 123 or at least 21 on Mathematics ACT)

123 Selected Topics in College Algebra. 3 hrs.
Solve equations and inequalities, solve systems of linear equations, study of functions (including exponential and logarithmic functions), matrices, basic probability and statistics. Applications mostly in business and economics. (PR: MAT 097 or equivalent, or Mathematics ACT at least 19)

130 College Algebra. 3 hrs. I, II, S.
Polynomial, rational, exponential, and logarithmic functions. Graphs, vectors, systems of equations and inequalities, sequences, induction. (PR: MAT 097 or equivalent, or MAT ACT at least 21)

130E College Algebra - Expanded Version. 5 hrs.
A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, vectors, systems of equations and inequalities, sequences, induction. (PR: MAT 097 or equivalent, or Math ACT at least 20)

132 Precalculus with Science Applications. 5 hrs.
Polynomial, rational, exponential, logarithmic, and trigonometric functions. Graphs, vectors, systems of equations and inequalities, sequences, induction. (PR: MTH 120 or 123 or at least 21 on Math ACT)

140 Applied Calculus. 3 hrs. I, II, S.
A brief survey of calculus including both differentiation and integration with applications. Not to be substituted for Mathematics 229 or Mathematics 190. (PR: Two years of high school algebra and at least 21 on ACT, or MTH 120 or MTH 123)

203 Calculus for Business. 3 hrs.
Fundamental aspects of calculus are covered with applications in business and economics. The topics covered include limits, differentiation, integration, and some multivariable calculus. (PR: MTH 123 or equivalent, or MAT ACT at least 27)

225 Introductory Statistics. 3 hrs. I, II, S.
Basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications. (PR: Two years of high school algebra, or MTH 120 or MTH courses higher than 123)

229 Calculus with Analytic Geometry I. 5 hrs. I, II, S.
An introduction to analytic geometry. Limits, derivatives, and integrals of the elementary functions of one variable, including the transcendental functions. (PR: MTH ACT of 27 or above, or MTH 130 and 122, or MTH 130E and 122, or MTH 132)

230 Calculus with Analytic Geometry II. 4 hrs. I, II, S.
Applications of the integral, techniques of integration, and infinite series. A study of conic sections, polar coordinates, and parametric equations. (PR: MTH 229)

231 Calculus with Analytic Geometry III. 4 hrs. I, II.
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: MTH 220)

280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of the chairman)

300 Introduction to Higher Mathematics. 3 hrs.
A transition between elementary calculus and higher mathematics with emphasis on techniques of proof. (PR: MTH 230)

264/Courses of Instruction
Sophomore Seminar. 1 hr.
An introduction to reading, writing and speaking mathematics. Students will explore topics related to a theme chosen by the instructor. Capstone experience.

Linear Algebra. 3 hrs.
Vector spaces, matrices and determinants, systems of linear equations, linear transformations, eigenvalues, eigenvectors, and applications. (PR: At least one course above MTH 121 or at least 28 on Mathematics ACT)

Differential Equations. 3 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: MTH 231 or permission of instructor)

Discrete Structures. 3 hrs.
Sets, relations, directed and undirected graphs, monoids, groups, lattices, Boolean algebra, and propositional logic. (PR: MTH 230 or permission)

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)

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)

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: MTH 231, or MTH 230 and permission of instructor)

Statistical Models for Regression and Correlation Analysis. 3 hrs.
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 a knowledge of elementary calculus, or permission of instructor)

Statistical Models for Analysis of Variance and Covariance. 3 hrs.
Analysis of variance and covariance models with derivations using calculus; detailed testing of model assumptions and remedial measures (as transformations) to yield adequate models; use of various statistical designs. (PR: One previous statistics course and a knowledge of elementary calculus, or permission of instructor)

Nonparametric Statistical Methods and Theory. 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 a knowledge of elementary calculus, or permission of instructor)

Applied Time Series Analysis. 3 hrs. Alternate years. Finding statistical models to represent various time dependent phenomena and processes; coverage of a variety of forecasting techniques, with an emphasis on adaptive, regression, and Box-Jenkins procedures. (PR: Previous course in statistics and knowledge of elementary calculus, or permission of instructor)

Advanced Calculus I. 3 hrs. I.
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: MTH 231 and 300, REC: MTH 330)

Advanced Calculus II. 3 hrs. II.
A rigorous development of algebra and topology of Euclidean spaces, differentiability and integrability of functions of several variables. (PR: MTH 427)

Numerical Linear Algebra. 3 hrs.

Numerical Analysis. 3 hrs.
The theory and technique of numerical computation involving the difference calculus, the summation calculus, interpolation methods, solution of systems of equations, and numerical differentiation and integration. (PR: MTH 230)
445-446  Theory of Statistics. 3; 3 hrs. I, II.

448  Fundamental Concepts of Modern Geometry. 3 hrs.
Finite geometries, basic background material for the modern development of Euclidean Geometry, other geometries. (PR: MTH 1230)

449  Projective Geometry. 3 hrs.
Projective geometry using both synthetic and algebraic methods. (PR: MTH 230)

450  Modern Algebra. 3 hrs. I.
Structure of the abstract mathematical systems: fields, rings, groups, with illustrations and applications from number theory. (PR: MTH 1230; REC: MTH 300)

480-483  Special Topics in Mathematics. 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.

491  Senior Seminar. 3 hrs.
Capstone experience in reading, doing, writing and speaking mathematics. Students will explore topics related to a theme chosen by the instructor. (PR: Sophomore Seminar, plus any two of: MTH 427, 445, 450)

495H-496H  Readings for Honors in Mathematics. 2-4; 2-4 hrs.
Open only to mathematics majors of outstanding ability. (PR: Consent of department chairman. See Honors Courses)

MEDICAL LABORATORY TECHNICAL
(See Clinical Laboratory Sciences)

MEDICAL TECHNOLOGY
(See Clinical Laboratory Sciences)

MILITARY SCIENCE (MS)

101  Introduction to ROTC. 2 hrs. I, II, S.
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.
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  Introduction to Leadership. 2 hrs.
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  Self and Team Development.
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  Individual and Team Military Tactics. 2 hrs. I, II, S.
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  Leadership Laboratory II. 1 hr.
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)

209  Nursing in the Army. 2 hrs. I, II.
An overview of aspects, career opportunities and progression for Army nurses. Instruction will provide insights of the ROTC program for nurses.

211  Ranger Operations and Techniques. 2 hrs. I, II.
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, S.
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.

220 Military Leadership. 2 hrs. I, II, S.
An examination of successful leadership traits, styles, and techniques as they relate to the development of effective military organizations.

221 Army Physical Readiness Program. 1 hr. I, II, S.
A complete physical training program concentrating on cardiorespiratory, strength and endurance exercises; designed to improve total fitness through a slow and flexible progression.

251 Camp Challenge. 3 hrs. S.
This course is six-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.

280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

301 Leading Small Organizations I. 3 hrs. I, II.
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 Leading Small Organizations II. 3 hrs.
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 ROTC Advanced Camp. 3 hrs. (non-resident) S.
A five-week camp at an active army post; it is highly structured and demanding, stressing leadership at small unit levels under varying, challenging conditions. Individual are evaluated throughout camp. (PR: MS 302)

401 Leadership Challenges and Goal-Setting. 3 hrs.
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 Advance Course Leadership Lab IV.
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 Transition to Lieutenant.
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)

480-483 Special Topics. 1-4; 1-4; 1-4 hrs.

485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of department Chairman)

MINE SAFETY (MSF)

397 Mining and Industrial Hygene 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.
Mine Safety and Health Management. 3 hrs.
This course covers the principles, functions and philosophies of mine management.

Hazards Control in Mining. 3 hrs.
A study of how to recognize accident potential throughout the mining industry.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
A study of special topics not offered in regularly scheduled courses.

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
Workshop (Selected Topics). 1-4; 1-4; 1-4; 1-4 hrs.

MUSIC (MUS)
Requirements for Music Majors

Degrees
The Department of Music offers two degree programs: the B.A. in Music Education and the B.F.A. in Music with concentrations in performance or theory/composition.

Admission to Music Program
All students applying for admission to any program in music must arrange by appointment for an audition and be approved by the Chairman of the Department of Music. Students unable to audition on campus may arrange to submit a tape. The audition will cover performance in a major applied music area.

Applied Music

MAJOR:
1. All students pursuing the music education curriculum are required to select a major instrument or voice and complete twelve (12) semester hours in this field — six (6) hours of lower division and six (6) hours of upper division.
2. Students pursuing the B.F.A. degree in performance must complete sixteen (16) semester hours — eight (8) hours of lower division and eight (8) hours of upper division. Students in the composition/theory option are required to complete twelve (12) hours of applied study.
3. Each student must be approved through jury examination at the end of each semester before registering for the next level of study; this is particularly so after the fourth semester before upper division (5th Semester) applied music courses may be started. Students who are not approved for advancement will be required to repeat lower level work until successful. Major applied music courses include one hour of lesson time per week with two hours daily preparation.
   Applied Music students are not permitted to drop these subjects during the course of a term without specific permission from the department chairman. This permission is granted only for extraordinary reasons in exceptional cases.
   All applied music study must be approved by the Department of Music office and no registration for any level or category is permitted without this approval.
   Performance on the major instrument or voice is required at least once each semester on weekly, daytime recitals held for this purpose. First semester freshmen are exempt, but may perform upon request with approval.
   Seniors must give a recital as part of the requirement for graduation. Approval to plan this recital must be obtained during the jury examination preceding the recital semester.

SECONDARY PIANO:
Music majors whose area of concentration is not piano take at least four semesters of piano instruction, usually in class work. Incoming students are given a hearing for the purpose of determining the level at which that study begins. All music majors are required to pass a piano proficiency examination as part of the requirements for the degree. This examination is usually given at the end of the fourth semester of study and graded separately, pass or fail, apart from the semester's grade. Students may be required to repeat piano until the proficiency requirements are met.

ELECTIVE:
Students may elect applied music courses, upon approval of the Department of Music, for one hour credit each semester. These courses afford one half-hour lesson per week requiring at least one hour of daily preparation, and are permitted on a first come, first served basis according to spaces available on teaching loads. In Piano, Voice, and Guitar special beginning classes for non-majors are listed in the Schedule of Classes.
CAPSTONE EXPERIENCE INFORMATION:

Performance Capstone:
All performance majors must appear in a performance capstone approved by the music faculty before becoming eligible for graduation. Students may not register for the Capstone Experience prior to registering for the 300d level of the applied major.

Composition Capstone:
All composition majors must appear in a composition capstone approved by the music faculty before becoming eligible for graduation.

Ensembles:
Students participation 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 conductor and approval of the advisor, a student may enroll in more than one ensemble in a semester. For purposes of credit, the following are deemed principal concert ensembles: Chamber Choir, University Chorus, University Symphony Orchestra, Symphonic Band and Wind Symphony, Secondary concert ensembles include Instrumental Jazz Ensembles, Vocal Jazz Ensembles, Brass Ensembles, Woodwind Ensembles, String Ensemble, Percussion Ensemble, Flute Ensemble, Guitar Ensemble, Opera Theater, Choral Union, Collegium Musicum, and any other small ensemble featured on an occasional basis. Enrollment in all ensembles, except the University Chorus and the Choral Union, require the permission of the instructor. The actual number of clock hours per week of rehearsal may vary depending on the ensemble. All ensembles are offered for one semester hour credit.

Major Ensembles:
BA in Music Education. Seven semester hours (four hours lower division and three hours upper division) in a principal concert ensemble are required for all majors. These must be earned in seven different semesters. Wind Symphony (audition required) or Symphonic Band and Marching Band are corequisites for wind and percussion performers during fall semester. String performers must complete four semester hours of String Ensemble or Chamber Music.

BFA - All Programs. Eight semester hours (four lower division and four upper division) in a major concert ensemble are required for all majors. These must be earned in eight different semesters. Wind and percussion performers are encouraged to participate in the Marching Band (fall semester only) though are not required. Strings performers must complete four semester hours of String Ensemble or Chamber Music.

Major Ensembles. The major ensembles are Chamber Choir, University Chorus, Orchestra, Wind Symphony, Symphonic Band, and Marching Band. For woodwind, brass, and percussion majors, Marching Band is required in the fall semester and a Concert Band in the spring.

Secondary Ensembles: The secondary ensembles are: Choral Union, Opera Workshop, University Singers, Jazz Ensemble, Pep Band, and Chamber Ensembles (Brass, Woodwind, Percussion, String, and Collegium Musicum).

MUSIC (MUS)

100 Applied Music Laboratory. 0 hrs. I, II.
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.

115-116 Elementary Music Theory. 4 hrs. each. I, II.
A thorough study of the melodic, harmonic and rhythmic elements of music through writing, playing, singing and listening. Includes triads, modulation, seventh chords, sight-singing, melodic and harmonic dictation. (MUS 115 is PR for 116)

121 Aural Perception of Music Literature. 2 hrs. I.
Development of aural skills in perceiving timbre, texture, rhythm, meter, linear organization, harmonic organization, and form through listening to selected works and study of their scores.

142 Appreciation of Music. 2 hrs. I, II, S.
Development of an appreciation and understanding of music as a fine art, including experiences from a variety of sources drawn from many layers of cultures and civilizations. For non-music majors.

173a,b,c,d-373a,b,c,d Applied Music. Harp 1-2; 1-2 hrs. I, II.

177 ab Class Guitar. 1: 1 hr. I, II.
Classes for guitar majors and elective students. (PR: Permission)

178 ab Class Voice. 1: 1 hr. I, II.
Classes for voice minors and electives designed for beginners. (PR: Permission)
179 a,b,c,d Class Piano. 1; 1; 1 hr.
Classes for piano minors and electives progressing from beginner to proficiency level. (PR: Permission)

181 a,b,c,d-381a,b,c,d Applied Music. Saxophone. 1-2; 1-2 hrs. I, II.
182 a,b,c,d-382a,b,c,d Applied Music. Flute. 1-2; 1-2 hrs. I, II.
183 a,b,c,d-383a,b,c,d Applied Music. Oboe. 1-2; 1-2 hrs. I, II.
184 a,b,c,d-384a,b,c,d Applied Music. Clarinet. 1-2; 1-2 hrs. I, II.
185 a,b,c,d-385a,b,c,d Applied Music. Bassoon. 1-2; 1-2 hrs. I, II.
186 a,b,c,d-386a,b,c,d Applied Music. French Horn. 1-2; 1-2 hrs. I, II.
187 a,b,c,d-387a,b,c,d Applied Music. Trumpet. 1-2; 1-2 hrs. I, II.
188 a,b,c,d-388a,b,c,d Applied Music. Trombone. 1-2; 1-2 hrs. I, II.
189 a,b,c,d-389a,b,c,d Applied Music. Baritone. 1-2; 1-2 hrs. I, II.
190 a,b,c,d-390a,b,c,d Applied Music. Tuba. 1-2; 1-2 hrs. I, II.
191 a,b,c,d-391a,b,c,d Applied Music. Violin. 1-2; 1-2 hrs. I, II.
192 a,b,c,d-392a,b,c,d Applied Music. Viola. 1-2; 1-2 hrs. I, II.
193 a,b,c,d-393a,b,c,d Applied Music. Cello. 1-2; 1-2 hrs. I, II.
194 a,b,c,d-394a,b,c,d Applied Music. String Bass. 1-2; 1-2 hrs. I, II.
195 a,b,c,d-395a,b,c,d Applied Music. Piano. 1-2; 1-2 hrs. I, II.
196 a,b,c,d-396a,b,c,d Applied Music. Voice. 1-2; 1-2 hrs. I, II.
197 a,b,c,d-397a,b,c,d Applied Music. Organ. 1-2; 1-2 hrs. I, II.
198 a,b,c,d-398a,b,c,d Applied Music. Percussion. 1-2; 1-2 hrs. I, II.
199 a,b,c,d-399a,b,c,d Applied Music. Guitar. 1-2; 1-2 hrs. I, II.

Course descriptions and standards of performance are available in the Office of the Chairman.

203-403 Choral Union. 1; 1 hrs. I, II.
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; 1 hr. I, II.
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; 1 hr. I, II.
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; 1 hr. I, II.
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.

208-408 Orchestra. 1; 1 hr. I, II.
The Marshall Community Orchestra is open to all university students, faculty, and interested musicians in the community with permission of the instructor. Concerts are presented each semester. (PR: Audition with Director)

210 Introduction to Electronic Music. 2 hrs.
A nontechnical introduction to the theory, practice and literature of electronic music. Open to non-music majors.

215-216 Advanced Music Theory. 4 hrs. each. I, II.
Advanced modulation, chromatic harmony and advanced melodic and harmonic dictation, sight-singing. Homophonic forms and 20th century concepts are introduced. (MUS 116 is PR for 215; MUS 215 is PR for 216)

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.

242 Music Skills for Classroom Teachers. 2 hrs. I, II, S.
Development of fundamental music skills used in reading and teaching music at the elementary school level. (PR: MUS 142 and junior standing)

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.

253 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.
Flute Ensemble. 1; 1 hr. I, II.
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.

String Ensemble. 1; 1 hr. I, II.
(PR: Audition with Director)

Woodwind Ensemble. 1; 1 hr. I, II.
(PR: Audition with Director)

Percussion Ensemble. 1; 1 hr. I, II.
(PR: Audition with Director)

Brass Ensemble. 1; 1 hr. I, II.
(PR: Audition with Director)

Jazz Ensemble. 1; 1 hr. I, II.
(PR: Audition with Director)

String Techniques. 1 hr. I, II.

Woodwind Techniques. 1 hr. I, II.

Brass Techniques. 1 hr. I, II.

Percussion Techniques. 1 hr. I, II.

Symphonic Band. 1 hr. I, II.
(PR: Audition with Director)

Marching Band. 1; 1 hr. I.
(PR: Audition with Director)

Wind Symphony. 1; 1 hr. II.
(PR: Audition with Director)

Pep Band. 1; 1 hr. II.
(PR: Audition with Director)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

Analysis. 2 hrs. I, II.
The study of small and large forms; song form, minuet, variation, fugue, rondo, sonata, etc. Recognition of various forms by ear and by sight. (PR: MUS 216)

Advanced Analysis. 2 hrs.
A study of larger musical forms and contemporary applications of older forms. Recognition of these forms by sight and sound. (PR: MUS 301)

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)

Vocal Techniques. 1; 1 hr. I, II.
Foundation principles of voice usage, interpretation, and problems of vocal pedagogy. For instrumental music major students. Courses must be taken in sequence. (PR: MUS 312 for 313)

Instrumental Conducting. 2 hrs. I.
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 216)

Instrumental Arranging. 2 hrs. I.
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 216)

Choral Arranging. 2 hrs. I, II.
Score writing and arranging for vocal ensembles of two to eight parts. (PR: MUS 216)

Orchestration. 3 hrs.
A detailed study of band and orchestral instrument capabilities and their use in various large and small ensembles to develop comprehensive scoring technique. (PR: MUS 216, MUS 320)

Music Education: Materials and Methods in School Music (Grades K-6). 3 hrs. II.
Intensive study of vocal and instrumental materials and methods of presentation of music K-6. (PR: EDF 218, 319 and activity)

Music Education: Materials and Methods in School Music (Grades 7-12). 3 hrs. II.
Intensive study of vocal and instrumental materials and methods of presentation of music in grades 7-12. (PR: EDF 218, 319 and activity)

Music Materials and Procedures. 3 hrs. I, II, S.
Materials and procedures for teaching music in nursery school, kindergarten and grades K-6. (PR: MUS 142 or 175 and 242 or 303)

Research in Music. 3 hrs.
Basic research procedures and bibliography study culminating in a project in the student's area of specialization. (PR: Permission of instructor and MUS 216)

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, as students will learn techniques for listening and articulating responses to music. (PR: Sophomore standing or above)
415 Choral Conducting. 2 hrs. I.
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 216)

422 History and Literature of Music. 3 hrs. I, II.
From Medieval through Baroque periods, including form and texture in music, study of major works, listening to music, project reports. Designed for music majors (PR: MUS 121)

423 History and Literature of Music. 3 hrs.
Classical and Romantic periods, including form and texture in music, study of major works, listening to music, project reports. Designed for music majors. (PR: MUS 422)

425 Music of the Twentieth Century. 2 hrs.
Study of the major schools and developments in all aspects of twentieth-century music through reading, analysis, listening, and project reports. Designed for music majors (PR: MUS 216, 422, 423)

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)

430 Composition. 2 hrs.
Experience in writing music compositions in various forms. (PR: MUS 216 and 301)

431 Advanced Composition I. 3 hrs.
Experience in writing musical compositions in various forms to develop skill in twenty-first-century compositional techniques. (PR: MUS 430)

432 Electronic Music Composition. 2 hrs.
The theory and practice of the use of electronic mediums of composition. Synthesizer and tape recording techniques will be emphasized. Primarily for music majors. (PR: MUS 216)

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. S.
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 216 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 216 and 4 semesters advanced applied piano.

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.

480-483 Special Topics. 1-4; 1-4; 1-4 hrs.
485-488 Independent Study. 1-4; 1-4; 1-4 hrs.
491-494 Workshops. 1-4; 1-4; 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 401, 302 and 304)

499 BFA Performance Capstone. 2 hrs.
A discipline-based experience designed to combine classroom and studio education in a summarizing project. (PR: MUS 401, 302 and 304)

NURSING (NUR)

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: Permission)

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: Permission)

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: Permission)
280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

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: Permission)

317 Family Nursing Practicum. 2 hrs.
Practice for family nursing with emphasis on health promotion and health protection. Required only for R.N. Option students. (PR: Permission)

318 Family Nursing. 3 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: Permission)

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: Permission)

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: Permission)

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: Permission)

323 Nursing and Human Responses III. 5 hrs.
Focus is on nursing care of clients of all ages responding to common health problems. Practicum included. (PR: Permission)

324 Nursing and Human Responses IV. 5 hrs.
Focus is on nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: Permission)

325 Nursing and Human Responses V. 5 hrs.
Focus is upon nursing care of clients of all ages responding to potential and actual complex alterations in health in relation to specific body systems. Practicum included. (PR: Permission)

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: SOC 200 or ANT 201)

403 Nursing Management. 3 hrs.
Focuses on the analysis of roles and functions of the professional nurse in first level management. Synthesis of concepts of leadership and related theories with nursing management included. (PR: Permission)

409 Nursing Research. 3 hrs.
Focuses on the research process and methodology. Development of critical thinking and decision making skills needed to analyze and evaluate research findings for application to nursing included. (PR: Permission)

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: Permission)

422 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. Practicum included. Capstone experience (PR: Permission)

423 Current Issues in Professional Nursing. 3 hrs. (3 credits theory)
Focus is on the political, legal, and ethical issues and their impact on nursing practice. (PR: Permission)

424 Pharmacology for Nurses. 3 hrs.
Focus on the role of the nurse in drug therapy. Specific drug classifications and protypical drugs, their actions, effects and nursing implications are described in length. (PR: Permission)

428 Rural Health Care. 1-6 hrs.
Practicum in providing health care to clients in rural underserved setting. Community assessment and multidisciplinary experiences included. Focus is on activities related to roles of the professional nurse. (PR: Permission)

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 Parks and Leisure Services. 3 hrs.
An orientation to the profession emphasizing history, trends, concepts, and relationship to other fields. This course is prerequisite to all other PLS courses.

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.

150 Basic Bass Fishing Techniques. 1 hr.
An activity course designed to teach basic skills in bass fishing including equipment, identification of bass species, location, techniques, and technology.

152 Basic Fly Fishing Techniques. 1 hr.
An activity course designed to teach the basic skills associated with fly fishing including equipment, flies, and techniques.

154 Basic Canoeing. 1 hr.
This course is designed to give the student the knowledge and skills essential to competent and safe canoeing in accordance with American Red Cross techniques and procedures.

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.

160 Introduction to Hiking & Camping. 1 hr.
An introductory activity course developed to teach beginning skills necessary for involvement in hiking and camping trips

201 Recreational Activities. 3 hrs.
Introduces the student to a variety of recreational activities typically utilized in recreation settings.

210 Recreation Programming and Leadership. 3 hrs.
A study of the fundamental principles of planning and the techniques of implementing these programs.

220 Therapeutic Recreation Program Planning. 3 hrs.
Designed to develop program planning and supervision of leisure activities for individuals with disabling conditions. (PR: PLS 120 or permission)

230 Park Management and Operation. 3 hrs.
Origin and conceptual development of parks, the basic study of both management and operation practices, and the management of physical park resources.

231 Nature Study. 3 hrs.
Designed to provide training in the planning and delivery of nature programs and activities offered in a variety of agencies and organizations.

270 Practicum. 2 hrs.
Scheduled in conjunction with PLS 210 to provide the student with program planning and leadership with leisure service organizations in the community. (CR: PLS 210)

271 Therapeutic Recreation Practicum. 2 hrs.
Scheduled in conjunction with PLS 220 to provide the student with programming experience for the handicapped. (CR: PLS 220)

280-283 Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

301 Outdoor Recreation. 3 hrs.
Organization, administration and delivery of outdoor recreation activities and resources. Emphasis upon federal, state, and local government programs and areas.

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.

274/Courses of Instruction
Administration of Parks and Recreation. 3 hrs.
Considers administrative practice and various organizational structures. Includes administrative processes, supervision of personnel, budgeting and public relations.

Assessment and Evaluation in Recreation and Leisure Services. 3 hrs.
Theoretical and practical approach to evaluation as applied to recreation and leisure services. Emphasis will be upon developing sound assessment and evaluation methodology applicable to recreation and leisure studies. (PLS 101)

Recreation Area and Facility Maintenance. 4 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.

Recreation Areas and Facilities. 3 hrs.
Basic considerations in the planning and design of recreational and sport areas, facilities, and structures including associated amenities.

Recreation for Special Populations. 3 hrs.
A study of the use of recreation activities with disabled persons. Techniques in programming and adaptation to meet the leisure needs of special groups in today's society. (PR: PLS 120 or permission)

Therapeutic Recreation in Institutional Settings. 3 hrs.
Designed to acquaint students with the role and practice of therapeutic recreation in treatment centers. (PR: PLS 120 or permission)

Environmental Interpretation. 4 hrs.
Principles and techniques of environmental interpretation as practiced in federal, state and private agencies. 3 lec.-2 lab.

Forest Recreation Planning. 4 hrs.
A forest recreation planning course utilizing the functional planning approach based upon demand and site capability analysis. 3 lec.-2 lab.

Special Topics in Recreation. 1-4; 1-4; 1-4 hrs.
(PR: By permission of the division head)

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.

Park and Recreation Internship. 12 hrs., S.
A supervised, 40-hour per week, 12-week internship in which the student works with park and recreation agencies. (PR: Senior standing, not more than 18 hrs. remaining before graduation, and minimum 2.0 overall grade point average)

PHILOSOPHY (PHL)

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.

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.

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.

Orientation in Humanities. 3 hrs. I, II.
An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Clinical Studies 150 and Religious Studies 150; PR or CR: English 101)

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. (PR: PHL 150, 200, or 201)

Applied Ethics. 3 hrs.
The application of basic ethical theories to contemporary moral issues drawn from such fields as medicine, business and the environment.

Ethics. 3 hrs.
A critical study of diverse moral norms, ideals and systems in theory and practice.

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).

Philosophy of Art. 3 hrs.
 Examination of the qualities involved in the appreciation of beauty which serve as standards of taste.
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).

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. (PR: PHL 200 or 201)

Current Philosophical Trends. 3 hrs.
Selected reading in contemporary thought embracing such movements as realism, Marxism, post-structuralism, deconstruction, postmodernism.

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.

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.

Basic Humanities. 3 hrs.
A structured interdisciplinary study offered by the departments of Classical Studies, Philosophy and Religious Studies in the foundations of Western thought: its myth, literature, religion, philosophy, art. (Same as Classical Studies 350 and Religious Studies 350)

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)

Philosophy of Feminism. 3 hrs.
An introduction to contemporary feminist theory including discussion of current gender-related issues. (PR: Three hours of Philosophy)

Ancient Philosophy. 3 hrs.
Advanced study of major philosophers drawn from the ancient Greek and Roman period. (PR: PHL 200)

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)

Metaphysics. 3 hrs.
Advanced study of the most basic nature of reality. (PR: 3 hrs. of philosophy)

Philosophy of Knowledge. 3 hrs.
Advanced study of the nature and possibility of knowledge. (PR: 3 hrs. of philosophy)

Philosophy of History and Culture. 3 hrs.
Ancient and modern theories of the meaning and consequence of history and culture. (PR: Three hours of philosophy)

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 religion)

Existential Philosophy. 3 hrs.
A study of existential philosophers from Kierkegaard to Heidegger, Sartre and beyond.

Special Topics. 1-4; 1-4; 1-4 hrs.
Shared study and research on a special topic as announced. (PR: Permission of the chairman)

Independent Study. 1-4; 1-4; 1-4 hrs.

495H-496H Readings for Honors in Philosophy. 4; 4 hrs.
Open only to philosophy majors of outstanding ability. See Honors Courses.

Directed Readings in Philosophy. 3 hrs. 1 or II.
Advanced research adaptable to the needs of the individual student. (PR: Permission of department chairman)

Humanities Seminar. 3 hrs.
Designed for majors as the culminating interdisciplinary study in the Basic Humanities program. Capstone experience (Same as Classical Studies 499 and Religious Studies 499)

PHYSICAL EDUCATION (PE)

Beginning Swimming. 1 hr. I, II.
PR: Non-swimming classification or instructor's permission

Basketball. 1 hr. I, II.
Theory, rules and techniques of basketball.

Marshall University 1997-99 Undergraduate Catalog
Beginning Archery. 1 hr.
Theory, rules and fundamentals of skills of archery.

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.

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.

Self Defense. 1 hr.

Taekwondo. 2 hrs.
Techniques and skills are taught with emphasis on participation.

Beginning Gymnastics 1 hr.

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.

Beginning Volleyball. 1 hr. I, II, S.

Beginning Softball. 1 hr. I, II, S.
Techniques and skills of softball taught with emphasis on participation in the activity.

Beginning Tennis. 1 hr. I, II, S.

Beginning Golf. 1 hr. I, II, S.

Beginning Badminton. 1 hr. I, II.

Beginning Bowling. 1 hr. I, II.

Beginning Soccer. 1 hr. I.
Instruction in techniques and skills of beginning soccer with strategy provided through class partici-
patation.

Beginning Folk Dance. 1 hr. I, II.

Beginning Square Dance. 1 hr. I, II.

Beginning Social Dance. 1 hr.
The analytical and practical study of the skills necessary to perform contemporary and traditional
ballroom dance.

Beginning Racquetball. 1 hr. I, II.

Beginning Handball. 1 hr. I, II.
Theory, rules and techniques of handball.

Scientific Foundations for Physical Education I. 3 hrs. I, II.
Instruction and laboratory experiences in basic anatomy, physiology and bio-mechanics as applied in
human movement.

Scientific Foundation of Physical Education II. 3 hrs. II.
Advanced instruction and laboratory experiences in Anatomy, Physiology and Biomechanics as ap-
plied in human movement.

Intermediate Swimming. 1 hr. I, II.
Theory and practice of fundamental strokes.

Intermediate Archery and Bow Hunting. 1 hr.
Theory, rules and techniques of intermediate archery and bow hunting.

Intermediate Volleyball. 1 hr. I, II.
Practice of intermediate volleyball techniques with additional insight into offensive and defensive
techniques used in competitive volleyball.

Intermediate Gymnastics. 1 hr. II.
To prepare students to teach gymnastics and tumbling and to organize gymnastics programs by provid-
ing them with adequate skills and knowledge. (PR: PE 125)

Intermediate Softball. 1 hr. I, II.
Practice of intermediate softball skills with emphasis on offensive and defensive techniques and strategies.

Intermediate Tennis. 1 hr. I, II.

Intermediate Golf. 1 hr. I, II.
Intermediate Badminton. 1 hr. I, II.
Practice of intermediate basketball skills with emphasis on offensive and defensive techniques and strategies.

Intermediate Basketball. 1 hr. I, II.

Intermediate Bowling. 1 hr. II.
Instruction in advanced techniques, skills and strategies in soccer.

Intermediate Folk Dance. 1 hr.
Continuation of skills in Folk Dance with emphasis on intermediate dances and techniques.

Intermediate Square Dance. 1 hr.
Continuation of skills in Square Dance with emphasis on intermediate dances and techniques.

Intermediate Social Dance. 1 hr.
Emphasis on stylization and more advanced skills involved in the performance of ballroom dance.

Intermediate Racquetball. 1 hr.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: Permission of Division Person)

Practicum in Sports Management and Marketing. 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 Sports Management and Marketing.

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.

Recreational Aquatics. 1 hr. II.
The development of skills in water-related activities such as scuba, skin diving, springboard diving, and other aquatic activities of recreational nature.

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)

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)

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, PE 260 and 350)

Kinesiology. 3 hrs. I, II.
Applied anatomy of the human musculature and biomechanics in relation to physical activity. (PR: PE 201)

Physiology of Exercise. 3 hrs. I, II.
Analysis of physiological changes which occur in the body during exercise. (PR: PE 201 or BSC 227 and 228)

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.

Athletic Training Clinical Experience: Level II. CR/NC
To develop evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Requires 200 clinical hours. (CR: Admission to Athletic Training Program; at least a first semester junior; concurrently registered for PE 345; PE 321; HE 220 or HE 221; completion of Clinical Level I)

Athletic Training Clinical Experience: Level III. CR/NC
To develop evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Requires 200 clinical hours. (CR: Admission to Athletic Training Program; at least a second semester junior; concurrently registered for PE 348 or PE 422)

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.

Nature and Bases of Motor Skills. 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.
Evaluating Fitness. 3 hrs. II.
Application of neuromuscular, physiological and psychological knowledges to the appraisal of individual fitness. Consideration will be given to procedures and practices applicable to individuals varying in age, physique, and initial fitness levels. (PR: PE 345)

Development and Management of Adult Fitness Programs. 3 hrs. I.
Considers organizational structures, record keeping, budgeting, and liability factors. (PR: PE 345, 375)

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.

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.

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)

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.

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.

Prevention, Care and Treatment of Athletics Injuries. 3 hrs. II.
This course is designed to prepare the athlete for competition, for prevention and protection from accidents, and for examination, care, and rehabilitation following injury. (PR: PE 215 and 348)

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)

Methods of Coaching Basketball. 2 hrs.
Different styles and systems of playing, methods of selecting and teaching players, scouting techniques and a scientific analysis of the player and the methods of playing basketball.

Methods of Coaching Football. 2 hrs.
Different styles and systems of playing, methods of selecting and teaching players, scouting techniques and a scientific analysis of the player and the methods of playing football.

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)

Methods of Coaching Track and Field. 2 hrs.
Methods and coaching techniques in the fundamentals of track and field.

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: PE 201)

Therapeutic Modalities in Sports Medicine. 4 hrs.
Investigation and analysis of therapeutic modalities including indications, contraindications, biophysics and procedures. Includes a lab. (PR: PE 201, PE 215 and permission)

Therapeutic Exercise in Sports Medicine. 4 hrs.
Investigation and analysis of current trends in rehabilitation exercise, muscle testing and evaluation. Includes a lab. (PR: PE 201, 215, and permission)

Athletic Training Clinical Experience: Level IV. CR/NC
To develop advanced evaluation and treatment skills of the student under the direction of NATA certified Athletic Trainer. Required 200 clinical hours. (CR: Admission to Athletic Training Program; at least a first semester senior; concurrently registered for PE 345, PE 321, HE 220, or HE 221)

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)

Seminar in Sports Management and Marketing. 3 hrs. II.
Course is designed to provide students with an overview to all aspects involved in the Sports Management and Marketing field through classroom lectures, guest speakers, and field trips. (PR: Junior standing in HPER)

Theoretical and Practical Aspects of Coaching. 3 hrs.
An in depth study of the principles and problems of coaching.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>478</td>
<td>Energy Sources, Body Composition and Performance</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>479</td>
<td>Trends in Athletic Training</td>
<td>3 hrs.</td>
<td>To provide an in-depth analysis of current trends with regard to administration, liability, and insurance. Cover current standards in surgery, rehabilitation, and evaluation of sport-related injuries.</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td>(PR: HPER majors only, with permission of Division chairperson)</td>
</tr>
<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
<td></td>
</tr>
<tr>
<td>490</td>
<td>Internship: Professional Student Experience</td>
<td>3-8 hrs.</td>
<td>Supervised clinical experience in an approved setting. Capstone experience.</td>
</tr>
<tr>
<td>495H-496H</td>
<td>Readings for Honors in Physical Education and Sport</td>
<td>1-3 hrs.</td>
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**PHYSICAL SCIENCE (PS)**

<table>
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<th>Course Code</th>
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</tr>
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<tbody>
<tr>
<td>109</td>
<td>General Physical Science</td>
<td>3 hrs.</td>
<td>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: CI 201 or MTH 120 or 121 or 123. CR: PS 109L lab.)</td>
</tr>
<tr>
<td>109L</td>
<td>General Physical Science Laboratory</td>
<td>1 hr.</td>
<td>A laboratory course with experiments related to PS 109. (CR: PS 109)</td>
</tr>
<tr>
<td>110</td>
<td>General Physical Science</td>
<td>3 hrs.</td>
<td>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: CI 201 or MTH 110 or 121 or 123. CR: PS 109L lab.)</td>
</tr>
<tr>
<td>110L</td>
<td>General Physical Science Laboratory</td>
<td>1 hr.</td>
<td>A lab course with experiments related to PS 110. (CR: PS 110)</td>
</tr>
<tr>
<td>210</td>
<td>Environment Science-Physical Aspects</td>
<td>3 hrs.</td>
<td>A survey of environmental science from the perspective of the Physical Sciences; natural resource development and use, especially energy sources, pollution and waste problems. Lab activities and field trips included.</td>
</tr>
<tr>
<td>280-283</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Astronomy</td>
<td>3 hrs.</td>
<td>A study of the stars, planets and galaxies, planetary motion, cosmology, cosmogony. Designed to assist teachers and others to develop an interest in astronomy. (PR: PHY 200 or 203, or PS 109)</td>
</tr>
<tr>
<td>400L</td>
<td>Astronomy Laboratory</td>
<td>1 hr.</td>
<td>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. (PR or CR: PS 400)</td>
</tr>
<tr>
<td>425</td>
<td>Development of Scientific Thought</td>
<td>3 hrs.</td>
<td>Offered on demand. A study of the people and ideas which have influenced science: the philosophy of their periods; the economic conditions leading to scientific advancement and the works of the foremost scientists in this field. (PR: A total of twelve hours in Physical Science, Physics, and Chemistry courses)</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4 hrs.</td>
<td></td>
</tr>
<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4 hrs.</td>
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</table>

**PHYSICS (PHY)**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Conceptual Physics</td>
<td>3 hrs.</td>
<td>Introduces non-science 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: 120, 121 or MTH 123 or the equivalent in high school math. CR: PHY 101L)</td>
</tr>
<tr>
<td>101L</td>
<td>Conceptual Physics Lab</td>
<td>1 hr.</td>
<td>A laboratory course designed to include the principles and applications of physics that are introduced in Physics 101. (CR: PHY 101) 2 lab.</td>
</tr>
<tr>
<td>201-203</td>
<td>General Physics</td>
<td>3 hrs.</td>
<td>A course in general physics for all science majors with the exception of physics and engineering majors. 3 lec. (PR: MTH 130 or 130E and MTH 122 or 132. CR: PHY 202 and 204 for 201 and 203, respectively; 201 must precede 203)</td>
</tr>
<tr>
<td>202-204</td>
<td>General Physics Laboratory</td>
<td>1 hr.</td>
<td>Required of all students taking Physics 201-203, unless exempt by special permission. 2 lab.</td>
</tr>
</tbody>
</table>
Principles of Physics. 4; 4 hrs. I, II.
A course in the basic principles of physics for physics, mathematics, and engineering majors. 4 lec. (PR: MTH 229, CR: MTH 230)

Laboratory Methods in Physics. 1; 1 hr.
A laboratory course to accompany Physics 211-213. 3 lab.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

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 and MTH 231)

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)

Optics. 3 hrs. I. (Alternate years)
An intermediate course in geometrical and physical optics. 3 lec. (PR: PHY 203) See 405.

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 and MTH 231)

Electronic Physics. 3 hrs. II. (Alternate years)
A study of transistors, integrated circuits and their associated circuits. 3 lec. (PR: PHY 203 and 204) See 415

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 and MTH 140 or MTH 230) See 421

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 and MTH 231)

Mechanics. 3 hrs. II. (Alternate years)
A study of rigid-body dynamics, central force motion, accelerated systems, and an introduction to the equations of Lagrange and Hamilton. 3 lec. (PR: PHY 330 and MTH 335)

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 and 204, or consent of instructor)

Optics Laboratory. 2 hrs.
A course in optical experiments encompassing geometrical and physical optics. This course is to be taken with Physics 304.

Physics of Remote Sensing with Applications. 3 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)

Digital Image Processing and Computer Simulation Modeling. 3 hrs.
A study of image processing/geographic information and spatial analysis hardware/software systems, concurrent and parallel image processing modeling scenarios utilizing geophysical data for computer simulation modeling and practicum. (PR: PHY 410 or permission)

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)

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.

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.

Applied Electronics and Instrumentation. 4 hrs. (Offered on demand)
A course applying electronic principles to instrumentation with emphasis on the medical and life sciences. The functions of instruments will be stressed. 3 lec-2 lab. (PR: PHY 203 and 204, or consent of instructor)

Seminar. 1 hr. each I, II.
One semester required of physics majors.

Optics with Life Science and Medical Applications. 4 hrs. (Offered on demand)
A course emphasizing the application of optical principles in instruments dealing with biological and medical measurements. 3 lec-2 lab. (PR: PHY 203 and 204, or consent of instructor)
Quantum Mechanics. 3 hrs. (Alternate years)
A study of waves and particles, the Schrödinger and Heisenberg formulations, particles in potential
fields, scattering and perturbation theories, and applications to atomic and nuclear structure. 3 lec.
(PR: PHY 445 or CHM 358 or consent of instructor)

Mathematical Methods of Physics. 3 hrs. (Offered on demand).
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 and MTH 335 or permission)

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. (PR: PHY 203, MTH 122, MTH 140)

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 and 204, or consent of instructor)

Nuclear Chemistry and Physics. 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.

Nuclear Physics Laboratory. 2 hrs.
Laboratory techniques for the measurement of nuclear properties, theory and characteristics of vari­
sous 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.

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs. I, II, S.
By permission of department chairman.

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. (PR: CSD 203 or 218 and lab)

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)

American National Government and Politics. 3 hrs.
The American federal government system, with emphasis on constitutionalism, governmental
structure, and the political process. (Open to all students).

Fundamentals of Politics. 3 hrs.
General survey introducing the study of politics, its major concepts, processes, institutions, and fields
of concern, with attention to the place of political science in the larger context of social science
inquiry.

Models of Politics. 1-3 hrs.
Introduction to the use of theory in political science. Offered in one-credit (5-week) modules. Mod­
ule 1 is prerequisite to all others. Designed to assist in the development of analytic and synthetic skills.

American State Government and Politics. 3 hrs. I, II.
Study of the institutions, processes, and significance of this level of political life in America.

Comparative Politics. 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.

Scope and Method in Political Science. 3 hrs.
Study of the development of political science as a distinct science and discipline, and of the funda­
mamentals of research in political science, such as bibliographic techniques, use of scientific method,
textual and case-study approaches and data analysis.

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.

Special Topics. 1-4; 1-4; 1-4 hrs.
To offer a course on some special topic not adequately treated in the regular course offerings.

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. (Same as Sociology 307)

309 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.

311 Topics 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.

325 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.

326 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.

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. (PR: PSC 104, 202)

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. (PR: PSC 104, 202)

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. (PR: PSC 104, 202)

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 European Communist Politics. 3 hrs.
Study of the Soviet Union and Eastern Europe.

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.

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.
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. 3 hrs.
Study of the development and influence of American Political Thought with an emphasis on the linkage of ideas to political and economic forces.

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.

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.

431 Political Theory and Public Problems. 3 hrs.
Draws upon both classic and contemporary sources of political theory to address basic political issues inherent in public problems.

432 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.

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.

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. (PR: PSC 133)

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. (PR: PSC 133 or permission)

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. (PR: PSC 133 or permission)

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.

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. (PR: PSC 104)

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.
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.
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.

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. 3 hrs.
Principles and methods in the scientific study of behavior.
201H General Psychology — Honors. 3 hrs.
For the superior student. (PR: ACT score of 26 or GPA of 3.2)
204 Psychology of Adjustment. 3 hrs.
Modes of personal and social adjustment; assessment and treatment techniques.
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)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.

302 Social Psychology. 3 hrs.
Social determinants of individual behavior. (PR: PSY 201. Same as SOC 302)
311 Child Development. 3 hrs.
Psychological characteristics and personal and social problems of developmental periods. (PR: PSY 201)
312 Adult Development. 3 hrs.
Study of the physiological, psychological, and social processes that occur with aging. (PR: PSY 201 or 311)
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)
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)
370 Practicum in Child Psychology. 3 hrs.
This course involves work and study in a day care center, including observation of cognitive and social development of children. (Grad. CR/NC only; PR: PSY 311, 408)
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)
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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>416</td>
<td>Psychology of Learning</td>
<td>3 hrs.</td>
<td>Critical study of the major theories of learning and the related research. (PR: PSY 201, PSY 223)</td>
</tr>
<tr>
<td>417</td>
<td>Intermediate Behavioral Statistics</td>
<td>3 hrs.</td>
<td>An intermediate level presentation of descriptive and inferential statistics as applied in behavioral research. (PR: PSY 201 and 223)</td>
</tr>
<tr>
<td>418</td>
<td>Psychology of Personnel</td>
<td>3 hrs.</td>
<td>Psychological principles and methods applied to functions in personnel administration. (PR: PSY 201)</td>
</tr>
<tr>
<td>420</td>
<td>Introduction to Industrial - Organizational Psychology</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>426</td>
<td>Cross Cultural Psychology</td>
<td>3 hrs.</td>
<td>Emic and etic cultural concepts are considered from an American (subcultural) and international perspective. Cultural influences on healing, health and service are covered.</td>
</tr>
<tr>
<td>427</td>
<td>Computer Applications in Psychology</td>
<td>3 hrs.</td>
<td>An introduction to computer applications in psychology, emphasizing data collection, management, organization, analysis and reporting. (PR: PSY 201, 223; CSD 101)</td>
</tr>
<tr>
<td>433</td>
<td>Current Models of Psychotherapy</td>
<td>3 hrs.</td>
<td>Introduction of theoretical models and related therapeutic strategies which influence the practice of modern psychotherapy. (PR: PSY 201)</td>
</tr>
<tr>
<td>440</td>
<td>Physiological Psychology</td>
<td>3 hrs.</td>
<td>The relationships between physiological functions and biochemical processes and behavior. (PR: PSY 201)</td>
</tr>
<tr>
<td>456-457</td>
<td>Research in Psychology</td>
<td>3; 3 hrs.</td>
<td>Laboratory courses to give advanced students experience in conducting psychological research. Capstone experience. (PR: Permission of instructor)</td>
</tr>
<tr>
<td>460</td>
<td>History and Systems of Psychology</td>
<td>3 hrs.</td>
<td>An examination of the historical and philosophical antecedents of contemporary psychology. Capstone experience (PR: Twelve hours of Psychology)</td>
</tr>
<tr>
<td>470</td>
<td>Practicum in Industrial-Organizational Psychology</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>471</td>
<td>Practicum in Clinical Psychology</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics</td>
<td>1-4; 1-4; 1-4; 1-4 hrs.</td>
<td>A course or seminar on some aspect of Psychology not otherwise treated in regular course offerings (PR: Permission of instructor and department chairperson)</td>
</tr>
<tr>
<td>485-488</td>
<td>Independent Study</td>
<td>1-4; 1-4; 1-4; 1-4 hrs.</td>
<td>Open only to students of outstanding ability. See Honors Courses.</td>
</tr>
<tr>
<td>499</td>
<td>Psychology Capstone Seminar</td>
<td>3 hrs.</td>
<td>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; Senior standing in PSY)</td>
</tr>
</tbody>
</table>

**RELIGIOUS STUDIES (RST)**

The department participates in the undergraduate Basic Humanities program. Students who wish to develop a major concentration in Religious Studies may consult a member of the departmental faculty. Students are encouraged to explore the possibilities of a dual major.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>205</td>
<td>Introduction to Religion in the Modern World.</td>
<td>3 hrs.  1 or II.</td>
<td>A correlation of religion with the different areas of life: natural sciences, humanities, social sciences, philosophy, ethics, education. Also an introduction to world religions.</td>
</tr>
<tr>
<td>250</td>
<td>Orientation in Humanities</td>
<td>3 hrs.  1.</td>
<td>An interdisciplinary course to introduce students to the elements of a humanistic education. (Same as Classical Studies 150 and Philosophy 150; PR or CR: ENG 101) Egypt, Canaan, and the Hellenistic world</td>
</tr>
<tr>
<td>280-283</td>
<td>Special Topics</td>
<td>1-4; 1-4; 1-4; 1-4 hrs.</td>
<td>Research adaptable to the needs of the individual student.</td>
</tr>
</tbody>
</table>
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 writings 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.

320 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.

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.

325 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.

350 Basic Humanities. 3 hrs. II.
A structured interdisciplinary study offered by the departments of Classical Studies, Philosophy and Religious Studies in the foundations of Western thought: its myth, literature, religion, philosophy, art. (Same as Classical Studies 350 and Philosophy 350)

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.

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 hrs.
485-488 Independent Study. 1-4; 1-4; 1-4 hrs.
495H-496H Readings for Honors in Religious Studies. 4; 4 hrs.
Open to students with permission of the department chairman. See Honors Courses.

499 Humanities Seminar. 3 hrs.
Designed for majors as the culminating interdisciplinary study in the Basic Humanities program. (Same as Classical Studies 499 and Philosophy 499)

SAFETY EDUCATION (SED)

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 Education. 3 hrs. II, S.
The child accident problem: basic courses, types, and areas of accidents; home, farm, recreation, school and vacation accidents; safe practices, control and prevention in the school and the general environment.

280-283 Special Topics. 1-4; 1-4; 1-4 hrs.

340 Industrial Fire Prevention. 3 hrs.
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.
Safety and Industrial Technology I. 3 hrs.
Industrial processes, graphics, materials, and dynamics, instrumentation, and design factors involving safety. (PR: SED 235)

Safety and Industrial Technology II. 3 hrs.
Continuation of SED 372 with focus on general industrial manufacturing complex. (PR: SED 372)

Construction Safety I. 3 hrs.
Basic construction site safety focus on site preparation, planning, and inspection for safe operations. (PR: SED 372)

Construction Safety II. 3 hrs.
Continuation of SED 375 with focus on system safety techniques applied to the construction industry. (PR: SED 375)

Safety Evaluation and Measurement. 3 hrs.
Methodologies of safety performance and evaluation for accident prediction and control.

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. (PR: SED 235, ability to drive an automobile, and possession of a valid driver's license)

Traffic Law and Enforcement. 3 hrs. II, 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.

Traffic Law and Enforcement. 3 hrs. II, 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.

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. (PR: SED 235)

Teaching Driver Education to the Handicapped. 3 hrs.
A survey of driver education for the handicapped, including physical, mental and social aspects. The course is recommended for students preparing to teach driver education or other related safety subjects.

Teaching Driving: Range, Multimedia, Simulation. 3 hrs.
A basic course of study designed to provide the student with insight into the technology of range, multimedia and simulation instruction through hands-on and practical learning experiences.

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.

Occupational Safety and Health Management. 3 hrs.
Emphasis is placed on principles, facts, and methodology rather than on incidental detail concerning safety management. (PR: SED 497)

Industrial Environmental Protection. 3 hrs.
Environmental protection related to industrial settings. Air/water quality, noise and chemical pollution and hazardous material control. (PR: CSM 211 required)

Accident Investigation/Reconstruction. 3 hrs.
An introductory course in traffic accident investigation designed to give insight into the recognition and collection of evidence, collecting and recording data and reconstructing the accident based on the facts.

Systems Safety. 3 hrs.
Introduction to and application of concepts and methods of system safety techniques. (PR: PSY 223)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
Students with specialization in safety education only, with permission of department chairman.

Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
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.

Safety Internship. 3 hrs.
Supervised experience on the job site. (Permission of Instructor)

Workshop. 1-4; 1-4; 1-4; 1-4 hrs.
Workshop in selected areas of occupational safety and health.

Occupational Safety and Health Programs. 3 hrs.
Safety functions in industry. Principals of organization and application of safety programs. Prevention, correction and control methods are outlined and evaluated.

Occupational Safety and Health Legislation. 3 hrs.
A survey of the legislation that has affected the safety movement with special emphasis on the 1970 Occupational Safety and Health Act.

288/Courses of Instruction

Marshall University 1997-99 Undergraduate Catalog
Organization, Administration and Supervision of Safety Programs. 3 hrs.
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.

SCIENCE EDUCATION
Listed under Teacher Education

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.

208 Social Problems in a Global Context. 3 hrs. I, II, S.
An interdisciplinary analysis of the growth of global interdependence and the nature of major global problems.

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)
(The Bachelor of Social Work program is housed in the School of Medicine.)

203 Introduction to the Field of Social Work. 3 hrs.
Introduction to the field of social work.

250 Volunteering 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, or permission of instructor)

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 322, 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 MT 2112 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 a 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 a 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. 3 hrs.
A capstone course integrating course work and field work as preparation for beginning level of generalist Social Work practice. (PR: SWK 203, 310, 312, 320, 330, 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 courses. (PR: Senior majors only)

485-488 Independent Study. 1-4; 1-4; 1-4 hrs. Individual study of topics not offered in regularly scheduled courses. Advance permission required. (PR: Senior majors only)

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)

108 Marriage Relations. 3 hrs.
A functional course in the personal, social, and cultural factors involved in courtship and marriage.

200 Introductory Sociology. 3 hrs.
Introduction to the study of human society.

200H Introductory Sociology, Honors. 3 hrs.
Introduction to sociology for the superior student. (PR: ACT scores of 26+ or a GPA of 3.2)

280-283 Special Topics. 1-4; 1-4; 1-4 hrs.
Selected topics not covered in regular course offerings. (PR: SOC 200)

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 department.

300 Social Organization. 3 hrs.
Analysis of sociological conceptual systems and theories. (PR: SOC 200)

310 Individual and Society. 3 hrs.
Study of sociological perspectives on social interaction and the relationship between the individual and society. (PR: SOC 200)

311 Deviance and Social Control. 3 hrs.
Study of the basic concepts and theories regarding deviant behavior and the mechanisms of social control. (PR: SOC 200)

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 that maintain health and provide support in illness as related to social theory. (PR: SOC 200)

342 American Society. 3 hrs.
Sociological analysis of the basic social and cultural features of contemporary American society. (PR: SOC 200)

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.

360 Sociological Perspectives. 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)

375 Social Stratification. 3 hrs.
Introduction to the analysis of structured social inequality with emphasis on the dimensions of social class, race, and gender (PR: SOC 200)

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: SOC 200)
<table>
<thead>
<tr>
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<th>Credit Hours</th>
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</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>Social Research II.</td>
<td>3 hrs.</td>
<td>Intermediate social research methodology with emphasis on research design. (PR: SOC 344 and 345, or departmental permission)</td>
</tr>
<tr>
<td>408</td>
<td>The Family.</td>
<td>3 hrs.</td>
<td>Theoretical analysis of the family as a primary social institution. (PR: SOC 200)</td>
</tr>
<tr>
<td>413</td>
<td>Social Movements and Social Change.</td>
<td>3 hrs.</td>
<td>Analysis of large-scale social change, including intentional social movements and revolutions. (PR: SOC 200)</td>
</tr>
<tr>
<td>420</td>
<td>Criminology.</td>
<td>3 hrs.</td>
<td>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: SOC 200 and 311 or permission)</td>
</tr>
<tr>
<td>421</td>
<td>Sociological Theory.</td>
<td>3 hrs.</td>
<td>Examination of the emergence and development of theoretical orientations in Sociology (PR: SOC 200)</td>
</tr>
<tr>
<td>423</td>
<td>Social Class, Power and Conflict.</td>
<td>3 hrs.</td>
<td>Theoretical analysis of economic and political inequality and the role of social conflict in the process of large-scale social organization. (PR: SOC 200)</td>
</tr>
<tr>
<td>425</td>
<td>Race and Ethnicity.</td>
<td>3 hrs.</td>
<td>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)</td>
</tr>
<tr>
<td>428</td>
<td>Medical Sociology.</td>
<td>3 hrs.</td>
<td>Analysis of the social organization of medicine and related health delivery services. (PR: SOC 200)</td>
</tr>
<tr>
<td>432</td>
<td>Sociology of Appalachia.</td>
<td>3 hrs.</td>
<td>Study of the economics, politics, and social relations of Appalachia, including contemporary debates over development in the region. (PR: SOC 200)</td>
</tr>
<tr>
<td>433</td>
<td>Industrial Sociology.</td>
<td>3 hrs.</td>
<td>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: SOC 200)</td>
</tr>
<tr>
<td>435</td>
<td>Juvenile Delinquency.</td>
<td>3 hrs.</td>
<td>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: SOC 200, SOC 311 or permission)</td>
</tr>
<tr>
<td>440</td>
<td>Introduction to the Sociology of Aging.</td>
<td>3 hrs.</td>
<td>An introduction to the social processes and consequences of growing older for both the individual and society. (PR: SOC 200)</td>
</tr>
<tr>
<td>442</td>
<td>Urban Sociology.</td>
<td>3 hrs.</td>
<td>The sociology of urban and metropolitan communities. (PR: SOC 200)</td>
</tr>
<tr>
<td>443</td>
<td>Evaluation Research.</td>
<td>3 hrs.</td>
<td>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: SOC 200)</td>
</tr>
<tr>
<td>445</td>
<td>Social Statistics II.</td>
<td>3 hrs.</td>
<td>Intermediate level statistical analysis, including analysis of variance and covariance. 2 lec-2 lab. (PR: SOC 345 or departmental permission)</td>
</tr>
<tr>
<td>450</td>
<td>Sociology of Religion.</td>
<td>3 hrs.</td>
<td>Sociological analysis of religion as a social institution. (PR: SOC 200, Same as Religious Studies 450)</td>
</tr>
<tr>
<td>452</td>
<td>Sociology of Death and Dying.</td>
<td>3 hrs.</td>
<td>Study of death and dying as a societal and cultural phenomenon. Explores how institutions within our society deal with death. (PR: SOC 200)</td>
</tr>
<tr>
<td>455</td>
<td>Sociology of Sex and Gender.</td>
<td>3 hrs.</td>
<td>Analysis of social differentiation and inequality by gender, with a focus on the contemporary U.S. (PR: SOC 200)</td>
</tr>
<tr>
<td>464</td>
<td>Complex Organizations.</td>
<td>3 hrs.</td>
<td>Analysis of complex organizations with special attention given to bureaucratic organization. (PR: SOC 200)</td>
</tr>
<tr>
<td>470-471</td>
<td>Field Experience in Applied Sociology.</td>
<td>3; 3 hrs.</td>
<td>Supervised field work in public or private agencies affording students an opportunity to apply sociological knowledge and skills in addressing practical problems. (PR: SOC 200)</td>
</tr>
<tr>
<td>475</td>
<td>Senior Seminar.</td>
<td>3 hrs.</td>
<td>A capstone course drawing together the major areas of sociology to form an integrated picture of the field. Capstone experience. (PR: Graduating senior in sociology)</td>
</tr>
<tr>
<td>480-483</td>
<td>Special Topics.</td>
<td>1-4; 1-4; 1-4; 1-4 hrs.</td>
<td>Study of topics of interest not covered in regularly scheduled courses. (PR: Permission)</td>
</tr>
</tbody>
</table>
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)

Readings for Honors in Sociology. 2-4; 2-4 hrs. I, II.
Open only to sociology majors of outstanding ability. See Honors Courses.

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 department.

SPANISH (SPN)

Elementary Spanish. 3; 3 hrs. I, II, S.
Pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR for 102: Spanish 101 or one unit of high school Spanish or departmental examination)

Elementary Spanish Reading Approach. 3; 3 hrs. I, II, S.
Emphasis on rapid development of reading and comprehension skills through the recognition of patterns based on the act of reading Spanish itself and intensive word study. Taught in English. Not open to majors. (PR for 162R: SPN 161R)

Intermediate Spanish. 3 hrs. I, II, S.
Continuation on the intermediate level of the basic language skills: pronunciation, conversation, reading, and composition with emphasis on aural/oral development. (PR for 203: SPN 102 or two units of high school Spanish or departmental examination)

Intermediate Spanish. 3 hrs. I, II, S.
Development of practical conversational skills, reading for comprehension, and directed compositions. (PR for 204: SPN 203 or three or four units of high school Spanish or departmental examination)

Spanish Society and Life. 3 hrs. I or II.
Study of selected topics relating to culture and life in the Spanish-speaking countries. Lectures, readings, and discussions in English. No prerequisite.

Intermediate Spanish Reading Approach. 3 hrs. I.
Emphasis on rapid development of reading skills in magazines, newspapers, and journals, accompanied by review of verb systems and advanced grammatical principles. Not open to majors. (PR for 263R: SPN 162R)

Intermediate Spanish Reading Approach. 3 hrs. II.
Emphasis on reading for comprehension in short stories, periodicals and technical journals according to student interest. Not open to majors. (PR for 264R: SPN 263R)

Special Topics. 1-4; 1-4; 1-4; 1-4 hrs.
(PR: SPN 204)

Advanced Conversation. 3; 3 hrs. I, II.
Conversation and discussions in Spanish on selected topics. Courses conducted in Spanish. (PR for either 310 or 311: SPN 204)

Studies in Language Laboratory Techniques. 3 hrs. II.
Training in the use of laboratory equipment, Clinical practice in the use of laboratory facilities, 2 hour lab to be arranged. Open to education majors only. (PR: SPN 204)

Advanced Grammar and Composition I. 3 hrs.
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. (PR: SPN 204)

Advanced Grammar and Composition II. 3 hrs.
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. (PR: SPN 204)

Survey of Spanish-American Literature. 3 hrs.
Readings from representative Spanish-American authors with reports and class discussions; from the Colonial period to the present. (PR: SPN 204)

Survey of Spanish Peninsular Literature. 3 hrs.
Readings from representative Spanish authors with reports and class discussions; from El Cid to the present. (PR: SPN 204)

The Spanish Short Story. 3 hrs.
A study of the short story form, from the medieval tales to the present; through readings, lectures and reports on selected authors. (PR: SPN 204)

Contemporary Latin American Prose Fiction. 3 hrs.
Readings, lectures, discussions, and reports in Spanish on the major figures in contemporary Spanish American prose. (PR: SPN 204)
203 Twentieth Century Spanish Drama. 3 hrs.
A survey of the developments in the Spanish Theatre dealing essentially with the readings and analytical study of the most representative works of leading dramatists during the Twentieth Century. Spanish focus will be devoted to the Theatre of Paradox and Social Protest, Theatre of Absurd, Theatre of Evasion and Underground drama. (PR: SPN 319)

205 Latin American Civilization. 3 hrs. I.
A study of the civilization of the Latin-American countries and their contributions to world culture. Lectures, discussions and reports. This course is taught strictly in Spanish. (PR: SPN 204)

206 Hispanic Civilization. 3 hrs. II.
A study of the civilization of Spain and its contributions to world culture. Lectures, discussions, and reports. This course is conducted strictly in Spanish. Capstone experience. (PR: SPN 204)

480-483 Special Topics. 1-4; 1-4; 1-4 hrs. I, II.
Independent research for qualified students who are interested beyond the other courses in the catalog. (PR: SPN 204 and permission of instructor)

485-488 Independent Study. 1-4; 1-4; 1-4; 1-4 hrs.
(Pr: SPN 204 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.

112 Theatre Appreciation. 3 hrs. I, II, S.
Development of an appreciation and an understanding of theatre as a fine art. For non-theatre majors.

150 Introduction to Technical Theatre. 2 hrs.
Introduction to scene design, lighting, set construction, and other aspects of technical production. 150 and 151 should be taken concurrently. 152 should be taken the following semester.

151-152 Introduction to Technical Theatre Laboratory. 1; 1 hr.
Practical experience in building, painting, dressing, and lighting scenery. Work in conjunction with Marshall University Theatre productions.

220 Stage Movement. 3 hrs.
Exercises for flexibility and control; stage terms and techniques; pantomime; improvisation; manners and dances from major theatrical periods; and acting scenes with usual movement.

221 Stage Voice and Dialects. 3 hrs.
Vocal techniques for the actor, including the study of dialects

222 Acting Ill: Scene Study. 3 hrs.
Development of skill through exercises and analytical study of scenes. (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 stage plays and musicals. (PR: THE 222)

250 Introduction to Costuming. 3 hrs.
The history, design, and construction of theatrical costumes.

255 Stage Makeup. 2 hrs.
The application of script analysis to determine appropriate straight, corrective, aged, and/or character makeup designs. Practical knowledge of anatomical structure, drawing, pancake, latex prosthetics and facial hair are utilized. (PR: THE 150)

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: ART 214 or 217, THE 150, 151)

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.
Theatre Management. 3 hrs.
Theories and practices in performing arts management. An exploration of fiscal and physical management techniques, including budgeting, box office procedures, promotion, and staffing. (PR: THE 101, 150, 151)

Acting Styles. 3 hrs.
Interpretation of roles from classical, romantic, neoclassical, and modern plays. (PR: THE 222)

Advanced Stage Dialects and Accents. 3 hrs.
Study and practice of dialects and accents that are commonly used in acting plays. (PR: THE 221)

Readers Theatre. 3 hrs.
Oral interpretation of dramatic text with emphasis on public performance. (PR: THE 220, 221)

Stage Lighting I. 3 hrs.
Play analysis, production concepts, elementary electricity, lighting instrumentation, color theory, intensity control, mechanical and AutoCAD drawing, cueing, and design documentation are utilized for lighting prosceenium designs. Student light plots required. (PR: THE 150, 151 and 152)

Scene Design I. 3 hrs.
Practical application of aesthetic and technical principles of scene design for the prosceenium stage. Script analysis, production concepts, architectural research, mechanical and AutoCAD drawings, white models, painter’s elevations are utilized. (PR: THE 150, 151 and 152)

Theatre Practicum. 1 hr.
Acting, directing, or technical work in Marshall University Theatre productions. Register only with permission of instructor. (PR: Open only to Theatre Majors.) May be repeated for a total of four hours.

Playwriting. 3 hrs.
Study of dramatic structure, characterization, dialogue, themes, sounds, and spectacle, including the writing of one-act plays. (PR: THE 101 or permission of instructor)

Acting for Musical Theatre. 3 hrs.
Analysis of musical scripts, study of spoken and musical scenes, staging musical numbers, and preparation of audition material. (PR: THE 222)

Acting for the Camera. 3 hrs.
Projects in acting for the camera. Video taping of selected acting exercises. (PR: THE 222)

Stanislavski System Acting. 3 hrs.
Study of the Stanislavski System of acting and using it in preparing and performing excerpts from plays. (PR: THE 222)

Children’s Theatre. 3 hrs.
Theory, direction, and staging of plays for children.

Directing I. 3 hrs.
Introduction to theories, principles, techniques, and history of directing. (PR: THE 150, 151, 152 and 222)

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)

Directing for the Camera. 3 hrs.
Projects in directing for the camera. Video taping of selected directing exercises. (PR: THE 437)

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)

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)

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: THE 350)

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)

Special Topics in Theatre. 1-4 hrs.
Program of study not normally covered in other courses. Topics vary from semester to semester.

Independent Study. 1-4; 1-4; 1-4; 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)
Theatre Internship. 1-4 hrs.
Supervised off-campus contractual work-study arrangement with external agencies or theatrical institutions. (PR: Permission of chairman)

Theatre Workshop. 1-4; 1-4; 1-4; 1-4 hrs.
Practical, participatory courses for advanced students and professionals. Experience in new techniques, theories, and principles. (PR: Permission of instructor)

Honors in Theatre. 1-3; 1-3 hrs.
Readings for honors in theatre. (PR: Permission of chair)

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 concentration (performance, directing, design, playwriting, stage management, etc.) (PR: permission of instructor)

UNIVERSITY HONORS (HON)

Honors Seminar Substitution for a Department Major Requirement or a College General Education Requirement. Substitution of an Honors seminar for a department major requirement or a college general education requirement should be requested before the course begins, or no later than the completion of the course. No such request will be honored during the second semester of the senior year. See the Executive Director, CAE (Old Main 230), for instructions and necessary forms.

Introduction to Honors. 1 hr. I.
Students meet their peers, learn about the Honors Program, and through small group discussion talk about college life and plan their academic future. Enriched section of New Student Seminar. (PR: ACT 26 and 3.3 GPA)

Critical Issues. 4 hrs. II.
Study and critical analysis of thought-provoking reading material. Examination of logical reasoning versus fallacious reasoning. Designed to prepare the student for critical thinking in subsequent honors courses. (PR: 3.3 GPA)

Interdisciplinary Honors. 4; 4; 4 hrs.
(195, Science and the Arts; 196, The American Experience; 197, Ideas in Social Sciences). These courses are subject to periodic changes in content. (PR: 3.3 GPA)

Interdisciplinary Honors. 4 hrs.
Ideas in Social Science. This course is subject to periodic changes in content. (PR: 3.3 GPA)

Interdisciplinary Honors. 4 hrs.
Ideas in Natural Science. This course is subject to periodic changes in content. (PR: 3.3 GPA)

Interdisciplinary Honors. 4 hrs.
Ideas in the Humanities. This course is subject to periodic changes in content. (PR: 3.3 GPA)

Interdisciplinary Honors. 4; 4 hrs.
Open to distinguished sophomores and upperclassmen of the undergraduate colleges and schools. Course content varies each semester. (PR: 3.3 GPA)

Special Topics. 1-4 hrs.
A study of special topics not listed under current course offerings. (PR: 3.3 GPA)

Departmental Readings for Honors.
See individual departmental listings.

WOMEN'S STUDIES (WS)

Introduction to Women's Studies

YEAGER SCHOLARS (YGS)

Seminar in Communications and Computers. 5 hrs.
Development of skills in oral communication; knowledge of the nature and impact of the mass media; ability to use the computer as a tool of communication and research.

Seminar in Humanities, Texts, and Values. 5 hrs.
Explores values in the life of the individual and society; examines ideas and modes of inquiry common to the humanities by exploring the works of selected Western thinkers.

Seminar in Theories of Natural and Social Sciences and Statistics. 5 hrs.
Introduction to the nature of scientific thought, methods, and theories in the natural and social sciences; explores concepts in statistics relevant to the development of hypotheses and theories.

Seminar in Arts and History. 5 hrs.
Introduction to the nature of the arts and their role in societies; understanding the nature and value of history.
Faculty
The Faculty

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Instructor
Carolyn Conner, M.B.A. (C.P.A.)

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- Caroline A. Perkins, Ph.D.

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Assistant professor
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Associate Professor
Alan Altany, Ph.D.

SAFETY TECHNOLOGY

Professor

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Professor
Girma Berhie, Ph.D.

Associate Professor
Philip W. Carter, Jr., M.S.W.; Jody Gottlieb, M.S.W.

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(prog. coord.); Taylor E. Turner, Jr., Ed.D.; Kathryn W. Wright, Ph.D.

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Ph.D.

Assistant Professor
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Associate Professor
Edward Leo Murphy, M.F.A.

Assistant Professor
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R.N., M.S.N.; Deborah Meehan, R.N., M.S.N.; Becky D. Rider, R.N., M.S.N., F.N.P.; Robin
Walton, R.N., M.S.N.

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Assistant Professor/Librarian II
Index
**Index by Schedule Designations**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC Accountancy and Legal Environment</td>
<td>208</td>
</tr>
<tr>
<td>ANT Anthropology</td>
<td>210</td>
</tr>
<tr>
<td>ART Art</td>
<td>212</td>
</tr>
<tr>
<td>ATE Adult Education</td>
<td>209</td>
</tr>
<tr>
<td>BE Business Education</td>
<td>218</td>
</tr>
<tr>
<td>BSC Biological Sciences</td>
<td>216</td>
</tr>
<tr>
<td>CD Communication Disorders</td>
<td>223</td>
</tr>
<tr>
<td>CHM Chemistry</td>
<td>219</td>
</tr>
<tr>
<td>CI Curriculum and Instruction</td>
<td>232</td>
</tr>
<tr>
<td>CJ Criminal Justice</td>
<td>230</td>
</tr>
<tr>
<td>CL Classics</td>
<td>221</td>
</tr>
<tr>
<td>CLS Clinical Laboratory Science</td>
<td>222</td>
</tr>
<tr>
<td>CMM Communication Studies</td>
<td>224</td>
</tr>
<tr>
<td>CSD Computer Science and Software Development</td>
<td>226</td>
</tr>
<tr>
<td>CR Counseling and Rehabilitation</td>
<td>228</td>
</tr>
<tr>
<td>CYT Cytotechnology</td>
<td>235</td>
</tr>
<tr>
<td>DAN Dance</td>
<td>235</td>
</tr>
<tr>
<td>ECN Economics</td>
<td>236</td>
</tr>
<tr>
<td>EDF Educational Foundations</td>
<td>238</td>
</tr>
<tr>
<td>EE Electrical Engineering</td>
<td>238</td>
</tr>
<tr>
<td>EG General Engineering</td>
<td>239</td>
</tr>
<tr>
<td>EM Engineering Mechanics</td>
<td>238</td>
</tr>
<tr>
<td>ENG English</td>
<td>239</td>
</tr>
<tr>
<td>ES Environmental Science</td>
<td>242</td>
</tr>
<tr>
<td>FA Fine Arts</td>
<td>246</td>
</tr>
<tr>
<td>FCS Family and Consumer Sciences</td>
<td>309</td>
</tr>
<tr>
<td>FIN Finance</td>
<td>245</td>
</tr>
<tr>
<td>FRN French</td>
<td>246</td>
</tr>
<tr>
<td>GEO Geography</td>
<td>247</td>
</tr>
<tr>
<td>GER German</td>
<td>250</td>
</tr>
<tr>
<td>GLY Geology</td>
<td>249</td>
</tr>
<tr>
<td>GRK Greek</td>
<td>251</td>
</tr>
<tr>
<td>HE Health Education</td>
<td>251</td>
</tr>
<tr>
<td>HON Honors</td>
<td>295</td>
</tr>
<tr>
<td>HST History</td>
<td>252</td>
</tr>
<tr>
<td>ISC Integrated Science</td>
<td>255</td>
</tr>
<tr>
<td>ITL Instructional Technology and Library Science</td>
<td>254</td>
</tr>
<tr>
<td>JMC Journalism and Mass Communications</td>
<td>256</td>
</tr>
<tr>
<td>JPN Japanese</td>
<td>256</td>
</tr>
<tr>
<td>LAT Latin</td>
<td>259</td>
</tr>
<tr>
<td>LE Legal Environment</td>
<td>260</td>
</tr>
<tr>
<td>MGT Management</td>
<td>260</td>
</tr>
</tbody>
</table>
The Index

A

Absences, From Examinations, 50
Academic Advising Center, 44
Academic Advising Orientation 33, 44
Academic Common Market, 49
Academic Dishonesty, 59
Academic Excellence, 71
Academic Forgiveness Policy, 47
Academic Information, 41
Academic Probation, 59
Academic Publications, 49
Academic Rights and Responsibilities, 67
Academic Scholarships, 27
Academic Skills Center, Community College, 11
Accounting, Bachelor of Business Administration Degree, 84
Courses, 208
Accreditation, 8
ACT, 18
ACT - Admission Option Freshman, 18
Additional Associate Degree, 53
Additional Baccalaureate Degree, 53
Admissions, 16
Adult Education Courses, 209
Adult Fitness Interdisciplinary, 124
Advanced Placement Examination, 20
Advertising Journalism, 153
Affirmative Action, 12
American College Test, 18
Anthropology and Sociology
Bachelor of Arts Degree, 156
Courses, 210
Application for Graduation, 51
Area of Emphasis, 42
Army ROTC Scholarships, 40
Art, Bachelor of Fine Arts Degree, 135
Courses, 212
Art Education Teaching Specializations, 100
Assessment, 7
Athletic Scholarships, 40
Athletic Trainer, 101
Athletic Training Interdisciplinary, 124
Audit Students, Admission, 20
Auditing Courses, 46

B

Baccalaureate Degree, Listing, 55
Bachelor of Fine Arts Degree, 135
Basic Humanities,
Baccalaureate Degrees, 146

Biological Sciences,
Bachelor of Science Degree, 162
Courses, 216
Teaching Specialization, 102
Broadcast Journalism, 153
Business Administration, 82
Accounting, 84
Economics, 85
Finance, 86
General Requirements, 82
Management, 86
Management, Health Care Concentration, 87
Management, Operations Concentration, 87
Management Information Systems, 87
Marketing, 88
Marketing, Business Logistics Concentration, 88
Minor, 88
Prebusiness Curriculum, 84
Business, College of , (See College of Business)
Business Education, Courses, 218
Teaching Specialization, 102
Business Principles,
Teaching Specializations, 103

C

Cancellation of Class, 39
Catalog of Record, 53
Center for Academic Excellence, 71
Center for Adult and Extended Education, 30
Center for Environmental, Geotechnical and
Applied Science, 32
CEU's, 48
Chemical Engineering, 174
Chemistry,
Bachelor of Science Degree, 105
Courses, 219
Teaching Specialization, 104
Class Attendance Policy, 46
Classical Studies,
Bachelor of Arts Degree, 147
Courses, 221
Classification of Students, 44
CLEP, 20
Clinical Laboratory Sciences,
Associate in Applied Science Degree, 166
Bachelor of Science Degree in Medical
Technology, 169
Courses, 222
Closing the University Policy, 13
College of Business, 77
Admission, 79
Advising, 80
Degree Programs, 79

Marshall University 1997-99 Undergraduate Catalog
Educational Media Courses (See Instructional Technology and Library Science)
Elementary, K-8
Teaching Specializations, 105
Engineering,
   Chemical, 174
   Electrical, 174
   Electrical Courses, 238
   Engineering Mechanics Courses, 238
   General Engineering Course, 239
   Pre-Professional Two-Year, 173
English,
   Bachelor of Arts Degree, 150
   Courses, 239
   Qualifying Examination in, 53
English/Language Teaching Specialization, 106
Enrollment Fees, 36
Enrollment Management, 15
Environmental Science,
   Bachelor's Degree, 175
   Courses, 242

F
Faculty Listing, 297
Family and Consumer Sciences Courses, 242
Fashion Merchandising
   Bachelor of Arts Degree, 128
Federal Aid, 28
Fees, 36
Field Experience, Defined, 42
Final Grades, 50
Finance,
   Bachelor of Business Administration Degree, 86
   Courses, 245
Financial Aid, 27
Financial Information, 35
Fine Arts, College of, 126
   Fine Arts Courses, 246
Food Service Management Degree, 128
Foreign Languages Major, 151
Forestry and Environmental Studies, 177
Forgiveness Policy, Academic, 47
French,
   Bachelor of Arts Degree, 151
   Courses, 246
   Teaching Specialization, 107
Freshmen Admission, 16
Full Time Student, Defined, 43

G
GED, 20
General Education Development Test, 20

312/The Index

General Requirements for Admissions, 16
General Science,
   Teaching Specializations, 108
Geography,
   Bachelor of Arts Degree, 151
   Bachelor of Science Degree, 144
   Courses, 247
Geology,
   Bachelor of Arts Degree, 177
   Bachelor of Science Degree, 177
   Courses, 249
German,
   Bachelor of Arts Degree, 151
   Courses, 250
Grade Appeal Policy, 59
Grade Information & Regulations, 49
Grade Point Average Required for Graduation, 51
Grade Point Average, Defined, 50
Grades and Quality Points, 51
Graduate School, 189
Graduation Information, 51
Graduation with Honors, 52
Greek Courses, 251

H
Health Education,
   Courses, 251
   Teaching Specialization, 110
   Health Sciences Careers, 180
High School Students,
   Early Admission, 17
Higher Education for Learning Problems (HELP), 12
History,
   Bachelor of Arts Degree, 151
   Courses, 252
History of University, 7
Home Economics,
   Teaching Specializations, 111
Honors, Graduation with, 52
Honor Students in Graduate Courses, 48
Human Services Programs, 123
Humanities, Bachelor of Arts Degree, 146

Independent Study, Defined, 42
Index by Schedule Designations, 308
Instructional Technology & Library Science,
   Courses, 254
Intercollege Transfer, 48
International Affairs,
   Bachelor of Arts Degree, 152
International Students, 23
Internship, Defined, 42

Marshall University 1997-99 Undergraduate Catalog
James E. Morrow Library, 9
Japanese Course, 256
John Marshall Scholars, 27, 74
Journalism and Mass Communications,
Advertising Sequence, 153
Bachelor of Arts Degree, 153
Broadcast Journalism, 153
Courses, 256
Print Journalism Sequence, 153
Public Relations Sequence, 154
Radio-Television Sequence, 154
Teaching Specialization, 112
Judicial Affairs, 10

Latin,
Bachelor of Arts Degree, 151
Courses, 259
Teaching Specialization, 112
Legal Environment Courses, 260
Leisure Services, Degree in, 129
Liability, 10
Liberal Arts, College of, (See College of Liberal Arts)
Libraries, 9
Library Science,
Courses, 254
Living Expenses, Residence Halls, 30
Loans, 28

Magna Cum Laude Graduation, 52
Major, Defined, 42
Management
Bachelor of Business Administration Degree, 86
Courses, 260
Health Care Concentration, 86
Operations Concentration, 87
Management Information Systems, 262
Mandatory Withdrawal, Medical Reasons, 45
Marketing
Bachelor of Business Administration Degree, 88
Courses, 262
Marketing, College of Business, 88
Business Logistics, 88
Marketing Education
Courses, 263
Teaching Specialization, 113
Marshall Plan, 43
Marshall University Story, 5
Mathematics,
Bachelor of Science Degree, 179
Courses, 264
Measles and Rubella Vaccination Requirement, 20
Medical Laboratory Technician
(See Clinical Laboratory Sciences)
Medical School, 191
Medical Technology,
Bachelor of Science Degree, 168
Mentally Impaired,
Teaching Specialization, 115
Metro Fees, 36
Military Science, ROTC, 89
Courses, 266
Military Service, 22
Miner Safety Courses, 267
Minor, Defined, 42
Mission of University, 6
Modern Languages (See Foreign Languages)
Music,
Bachelor of Fine Arts Degree, 136
Courses, 268
Teaching Specialization, 116

New Student Orientation Programs, 33
Non-Credit Option, 46
Non-Degree Admission Policy, 20
Non-resident classification, 24
Numbering of Courses, 43
Nursing (See School of Nursing)

Official Graduation Dates, 51
Oral Communication (Speech),
Teaching Specialization, 116
Orientation, 33
Academic Advising, 33
Out-of-State Reduced Tuition, 36
Orientation to Academic Advising, 33

Park Resources and Leisure Services,
Bachelor of Science Degree, 129
Courses, 274
Part-Time Admission, 19
Pell Grant, 28
Perkins Student Loan, 28
Perry, Michael Scholarship 28
Philosophy
Bachelor of Arts Degree, (See Basic Humanities)
Courses, 275
Phone Directory, 2
Physical Education,
Athletic Training, 101
Courses, 276
Teaching Specializations, 117
Physically Handicapped, 119
Physical Science Courses, 280
Physics,
  Bachelor of Science Degree, 180
  Courses, 280
  Teaching Specialization, 119
Placement Center, 33
Political Science,
  Bachelor of Arts Degree, 154
  Courses, 282
Practicum, Defined, 42
Prebusiness Curriculum, 84
Pre-Dental, 182
Pre-Kindergarten (See Early Ed.)
Pre-Law Education, 157
Pre-Medicine, 183
Pre-Optometry, 182
Pre-Pharmacy, 182
Pre-Physical Therapy, 181
Pre-Veterinary Medicine, 182
Presidential Scholarship, 27
Print Journalism, 154
Privacy Rights, 10
Psychology,
  Bachelor of Arts Degree, 154
  Courses, 285
Psychology Clinic, 11
Public Relations, 154
Public Service Internship, 48

Quality Points, 49
Qualifying Examination in English, 53

Radio and Television, 154
Readmission of Ineligible Students, 50
Regents Bachelor of Arts Degree, 57
Religious Studies, (See Basic Humanities)
  Courses, 286
Reporting Final Grades, 50
Refund of Fees, 38
Residence Hall Living Expenses, 36
Residence Halls, 12
Residence Requirements, 52
Resident Classification, 24
ROTC, (See Military Science)
ROTC Scholarships, 40

Safety Education
  Courses, 287
  Teaching Specialization, 120

Safety Technology
  Bachelor of Science Degree, 130
  Courses, 287
Schedule Adjustment, 43
Scholarship, 27
Scholastic Aptitude Test, 18
School Library-Media,
  Courses, 254
School of Journalism, 153
School of Medicine, 191
School of Nursing, 197
  Academic Policies, 203
  Admission, 199, 201
  Application, 199, 202
  Associate in Nursing, 205
  Basic Program, 203
  Courses, 272
  Program Requirements, 200, 202
  RN Option, 201
  School Nurse Certification, 203
  University Baccalaureate Initiatives, 198
Semester Hours, 43
Semester Load, 43
Seminar, Defined, 42
Service Members Opportunity Colleges, 22
Social Studies,
  Courses, 289
  Teaching Specialization, 120
Social Work,
  Bachelor of Social Work Degree, 192
  Courses, 289
Society of Yeager Scholars, 74
Sociology and Anthropology
  Bachelor of Arts Degree, 156
  Courses, 290
Spanish,
  Bachelor of Arts Degree, 151
  Courses, 292
  Teaching Specializations, 122
Special Fees, 37
Special Student, Admission, 19
Special Topics, Defined, 42
Speech (See Communication Studies)
Speech and Hearing Center, 11
Speech Pathology and Audiology, (See Communication Disorders)
Sports Management and Marketing,
  Bachelor of Science Degree, 131
Student,
  Academic Rights and Responsibilities, 67
  Activities, 9
  Development, 11
  Financial Aid, 27
  Health Service, 11
  Scheduling, 43
  Summa Cum Laude, 52
  Support Services, 34

Marshall University 1997-99 Undergraduate Catalog
Table of Contents, 3
Teacher Education, (See College of Education and Human Services)
Theatre,
  Bachelor of Fine Arts, 137
  Courses, 293
Transcript, Defined, 42, 51
Transferability of Credits, 54
Transfer student, 19
Transient Student Admission, 19
Transition Program, 17
Two Year Degrees, (See Community and Technical College)

University Heights Apartments, 12
University Honors Program, 72
  Courses, 295

Visual Arts Emphasis, 130
Visual Arts Major, 138

Weather Policy, 13
West Virginia Higher Education Grant, 28
Withdrawal from University, 44
Withdrawal/Reinstatement for Nonpayment, 39
Women's Studies Minor, 156
  Courses, 295
Workshop, Defined, 42
Work Study, 29
Yeager Scholars, 74
  Courses, 295
  Scholarships, 27