

Any other prospective students must currently hold the status of Registered Dietitian through the Commission on Dietetic Registration. They must apply for admission to the university through the Graduate College. Admission of these students will be handled on a case-by-case basis by the department.

To successfully complete the program, students will be required to maintain a GPA of 3.0 or higher and receive a score of satisfactory or better on all preceptor evaluations, when applicable. For specific course requirements, prospective students should consult the department chair for further details.

### **Dietetic Internship**

A post-baccalaureate certificate program to qualify to take the registration exam to become a Registered Dietitian (RD) is available. Students who have an undergraduate major in Dietetics may be selected to enroll in the Accredited Dietetic Internship Program to receive the supervised practice component required before taking the exam. Enrollment is by a selective, competitive process. The internship has been granted full accreditation by the American Dietetic Association, Commission on Accreditation for Dietetics Education, 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, telephone (312) 899-4876. Detailed internship information is available at [www.marshall.edu/dietetics](http://www.marshall.edu/dietetics).

## **EDUCATION**

### **Teacher Licensure in West Virginia**

With the exception of the Master of Arts in Teaching Program, the master's degree and professional development programs described herein **do not** result in **initial** licensure in West Virginia. Students seeking initial West Virginia licensure are advised to consult with their advisors regarding appropriate programs and courses.

### **EARLY CHILDHOOD, ELEMENTARY AND SECONDARY EDUCATION**

The goal of the Early Childhood, Elementary and Secondary Education programs is to provide coordinated, sequential programs of study in an identified area of education. These programs provide the educators and those in education-related fields four venues for graduate level professional development: graduate certificate programs, master's degrees (M.A.), an Education Specialist degree (Ed.S.) and a Doctor of Education (Ed.D.). In addition, graduate courses are available outside planned programs to allow professionals to augment their knowledge on topics of current interest or meet individual needs.

The graduate certificate programs provide concentrated graduate-level study of a specialty. Master's degrees offer a theoretical orientation with a focus on the application of theory to practice. The Education Specialist degree in Curriculum and Instruction is designed for post-master's professionals who are seeking a planned and structured program of study. Students may elect to be dually enrolled in the Education Specialist program and Doctor of Education in Curriculum and Instruction program. The Doctor of Education in Curriculum and Instruction serves the need of professionals who are seeking a terminal degree in the field. All of these programs are designed to prepare an experienced professional as a specialist.

### **Admission Requirements**

Individuals seeking admission to the Early Childhood, Elementary and Secondary Education program may apply as degree or graduate certificate students.

**Degree:** Students requesting admission to the Master of Arts degree program in early childhood, elementary or secondary education must satisfy the following requirements:

1. Submission of a transcript verifying a baccalaureate degree from a regionally accredited college or university; and
2. Submission of Graduate Record Examinations (GRE) General Test or Miller Analogies Test (MAT) scores; applicants should score 800 or above on the verbal and quantitative sections of the GRE or at least 380 on the MAT.

Multiple criteria are used in arriving at decisions to admit students to the master's degree programs in Early Childhood, Elementary and Secondary Education. Each applicant is evaluated with reference to the following criteria: 1) undergraduate Grade Point Average; 2) GRE or MAT scores; and 3) performance on any prior graduate courses. Flexibility is maintained in applying the criteria to individual cases. In practice, superior performance on one criterion may compensate for failing to meet the required standard on another. The applicant may be granted provisional enrollment and directed to complete selected courses. If a 3.00 grade point average is maintained in those courses, then the applicant will be admitted to the degree program.

**Graduate Certificate:** For those students not currently seeking a master's degree or higher, there are professional development programs that require the completion of a specified sequence of courses. Many of these lead to a graduate certificate or an endorsement to a teaching license. Entrance requirements for professional development programs include the following:

1. A baccalaureate degree from a regionally accredited college or university; and
2. An undergraduate Grade Point Average of 2.5 or a master's degree

**A. M.A. IN EARLY CHILDHOOD EDUCATION**

The Master of Arts in Early Childhood Education consists of a set of core course requirements, area of emphasis requirements, and a capstone experience. All students must complete 15 hours of coursework in research, growth and development, technology, instructional methods and assessment. Each student must also select an area of emphasis consisting of 18 hours of required and elective coursework. The capstone experience is the program component through which students demonstrate their ability to synthesize and apply the problem solving, research and writing capabilities developed throughout the program. Students may meet the capstone experience requirement by either completing a research project (Final Symposium: CI 659 and CI 680) or satisfactorily completing a written comprehensive examination and six hours of coursework.

Two options for advanced studies in Early Childhood are available:

1. The Master's Degree in Early Childhood Education designed for those who are licensed Early Education (Pre K-K) teachers.
2. The Master's Degree in Early Childhood Education designed for those who are licensed Elementary teachers with no endorsement in Early Education.

Hours may vary, depending on the student's undergraduate program. For those earning an endorsement in Early Childhood (Pre K-K) under Option 2, a practicum and a passing grade on the Praxis II: Specialty Area Test in Early Education (Pre K-K) is required. Candidates with three or more years of teaching experience must consult the Director of Clinical Experiences to determine if they qualify for a performance assessment.

**Option 1: The Master's Degree in Early Childhood Education designed for those who are licensed Early Education (Pre K-K) teachers**

<b>Core Subjects:</b> EDF 621 or 625; EDF 616; CIEC 530 or 534 or 600 or 660; CI 623 or 624 or approved methods course; EDF 612 or CI 609 or CI 501 .....	15
<b>Specialty:</b> CI 653, CI 631, CI 632, CI 633, CI 634, FCS 603 .....	18
Capstone Experience .....	6
<b>TOTAL</b> .....	<b>39</b>

**Option 2: The Master's Degree in Early Childhood Education designed for those who are licensed Elementary teachers with no endorsement in Early Education.**

<b>Core Subjects:</b> EDF 621 or 625; EDF 616; CIEC 530 or 534 or 600 or 660; CI 623 or 624 or approved methods course; EDF 612 or CI 609 or CI 501 .....	15
<b>Specialty:</b> CI 632, CI 633, CI 634, FCS 535, EDF 513, CI 630 .....	18
Capstone Experience .....	6
<b>TOTAL</b> .....	<b>39</b>

**B. M.A. IN ELEMENTARY EDUCATION**

The Master of Arts in Elementary Education consists of a set of core course requirements, area of emphasis requirements, and a capstone experience. All students must complete 15 hours of coursework in research, growth and development, technology, instructional methods and assessment. Each student must also select an area of emphasis consisting of 18 hours of required and elective coursework. The capstone experience is the program component through which students demonstrate their ability to synthesize and apply the problem solving, research and writing capabilities developed throughout the program. Students also will meet the comprehensive assessment requirement through the framework of the capstone experience.

<b>Core Subjects:</b> EDF 621 or 625; EDF 616; CIEC 530 or 534 or 600 or 660; EDF 612 or CI 609 or CI 501; CI 623 or 624 or approved methods course .....	15
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Area of Emphasis .....	18
Capstone Experience .....	6
<b>TOTAL .....</b>	<b>39</b>

**Areas of Emphasis include (descriptions in Section F):**

1. Early Childhood Education
2. Educational Computing
3. Elementary Science
4. Instructional Processes and Strategies
5. Literary, Language, and Learning
6. Math through Algebra I
7. Middle Childhood Education
8. School Library Media
9. Teaching English as a Second Language (ESL)
10. Individualized Plan of Study

**Capstone Experience:**

Students may meet the capstone experience requirement by either completing a research project (Final Symposium: CI 659 and CI 680) or satisfactorily completing a written comprehensive examination and six hours of coursework.

**C. M.A. IN SECONDARY EDUCATION**

The Master of Arts in Secondary Education consists of a set of core course requirements, area of emphasis requirements, and a capstone experience. All students must complete 15 hours of coursework in research, growth and development, technology, instructional methods and assessment. Each student must also select an area of emphasis consisting of 18 hours of required and elective coursework. The capstone experience is the program component through which students demonstrate their ability to synthesize and apply the problem solving, research and writing capabilities developed throughout the program. Students also will meet the comprehensive assessment requirement through the framework of the capstone experience.

<b>Core Subjects:</b> EDF 621 or 625; EDF 616; CIEC 530 or 534 or 600 or 660; CI 623 or 624 or approved methods course; EDF 612 or CI 610 or CI 501 .....	15
Area of Emphasis .....	18
Capstone Experience .....	6
<b>TOTAL .....</b>	<b>39</b>

**Areas of Emphasis include (descriptions in Section J):**

1. Educational Computing
2. Instructional Processes and Strategies
3. Math through Algebra I
4. Middle Childhood Education
5. School Library Media
6. Teaching English as a Second Language (ESL)
7. Individualized Plan of Study

**Capstone Experience:**

Students may meet the capstone experience requirement by either completing a portfolio project (Final Symposium: CI 659 and CI 680) or satisfactorily completing a written comprehensive examination and six hours of coursework.

**D. Ed.S. IN CURRICULUM AND INSTRUCTION**

The Graduate School of Education and Professional Development offers an Education Specialist (Ed.S.) degree in Education with an area of emphasis in Curriculum and Instruction. This post-masters program requires thirty semester hours of study and a comprehensive assessment. Students completing the Ed.S. in Education are expected to demonstrate:

- An in-depth knowledge and understanding in core studies (e.g., research, statistics, writing and technology);
- An in-depth understanding in a content area, such as Curriculum & Instruction; and
- The ability to synthesize and integrate the core and content knowledge gained in the program.

The target population for the program is post-master's professionals who are seeking a planned and structured program of study: teachers and other education personnel. Students enrolling in the Doctor of

Education programs in Curriculum and Instruction and Educational Leadership may elect to be dually enrolled in the Education Specialist program.

### Admissions Requirements

Students seeking admissions must hold a masters degree in a field related to their selected areas of emphasis and fulfill the admissions requirements of that area and of the Graduate College.

### Program Requirements

1. Complete required 30 semester hours.
2. Complete the comprehensive assessment (capstone component).
3. At least 15 of the 30 hours must be at the 700 level.
4. Only 600 or 700 level courses are applicable to the Ed.S.
5. All requirements must be completed within seven years of admission.

#### Core Component ..... 15 hrs.

Students will complete 15 semester hours of core courses thta are designed to develop skills in research, statistics, writing and technology.

- LS 703, Research Design ..... 3 hrs.
- EDF 625, Qualitative Research in Education  
or EDF 626, Advanced Qualitative Research in Education ..... 3 hrs.
- CIEC 660, Using Computers to Improve Instruction ..... 3 hrs.
- EDF 711, Survey Research in Education  
or EDF 618, Multilevel Analysis and Growth Models ..... 3 hrs.
- CI 677, Writing for Publication  
or HUM 604, Expository Writing ..... 3 hrs.

#### Content Component ..... 12 hrs.

Students will complete 12 semester hours from the content area Curriculum and Instruction.

- CI 701, Curriculum Development ..... 3 hrs.
- CI 702, Curriculum Theory ..... 3 hrs.
- CI 703, Theories, Models and Res. of Teaching ..... 3 hrs.
- CI 704, Social & Political Determ. of Curr. .... 3 hrs.

#### Capstone Component ..... 3 hrs.

The capstone project will be a focused review of the literature in the student's content area. The comprehensive assessment requirement will be satisfied through the presentation and defense of the project findings.

- EDF 679, Problem Report ..... 3 hrs.

TOTAL: 30 hours

### E. DOCTOR OF EDUCATION (Ed.D.)

This program is designed to offer eligible students in the region the opportunity to earn the Doctor of Education (Ed.D.) degree in Curriculum and Instruction or in Educational Leadership. The majority of coursework and other requirements will be met on the South Charleston campus, although some coursework is available on the Huntington campus. The mission of the doctoral program in education is to prepare practitioners to be reflective, ethical educators and researchers who contribute to the field of education. Program faculty are committed to creating a community of scholars through mentoring, engaging in collaborative research, and maintaining a focus on sound educational practice.

### Acceptance into the Program

The decision to admit an applicant to doctoral work constitutes a significant commitment from the faculty of the department in the form of advising, teaching, chairing or serving on the student's committee, preparing and evaluating examinations, and guiding the successful completion of the dissertation. The applicant should note that the decision to admit students to the doctoral program is a collective judgment of the program faculty and represents their determination of the likelihood of the candidate to succeed in all major phases of the degree program. These judgments take into account the applicant's professional experiences, communication and thinking skills, and other relevant capabilities. Thus, an applicant is not automatically admitted on the basis of meeting only the minimum criteria. An applicant must have earned at least a master's degree from an accredited institution in Curriculum and Instruction, Educational

Leadership, or a related field. Details of all admission requirements and other pertinent information can be found at [www.marshall.edu/gsepd/edd](http://www.marshall.edu/gsepd/edd).

## F. ADDITIONAL CERTIFICATION FOR TEACHERS

Teachers who want to add another teaching endorsement may do so by completing the course requirements, a performance assessment at the appropriate grade level, and the appropriate Praxis II test.

### PLANS OF STUDY FOR AREAS OF EMPHASIS/PROFESSIONAL DEVELOPMENT PROGRAMS

Plans of study marked with an asterisk (\*) may be used as endorsements for teaching certification. Plans of study marked with a plus sign (+) may be used as a graduate certificate program.

- 1) **\*+Early Childhood Education:** This concentration combines theory, research, and practical applications to child development and early childhood education. It is designed for teachers who wish to pursue a master's degree with an emphasis in early childhood education, as well as teachers who wish to add a Pre K-K endorsement to their professional licensure. Teachers who hold K-6 or K-8 certificates and wish to pursue a master's degree with an early childhood education emphasis will complete the following courses:  
CI 632, CI 633, CI 634, FCS 535, EDF 513, CI 630.  
**TOTAL** ..... **18 hrs.**
- 2) **+Educational Computing:** The program focuses on instructional applications and classroom utilization of computing.  
CIEC 534 or CIEC 530 or CIEC 660, CIEC 600, CIEC 610, CIEC 620, CIEC 630, CIEC 699, and an approved elective.  
**TOTAL** ..... **21 hrs.**
- 3) **+Elementary Science Education:** This concentration combines theory, research, and practical applications to enhance content knowledge and strategies and techniques of delivering instruction through the use of hands-on, discovery/inquiry teaching.  
CISE 571, CI 657, CIEC 600, CISE 576 or CISE 577, CISE 572 or CISE 573, CISE 570 or CISE 574 or CISE 575, and an approved elective.  
**TOTAL** ..... **21 hrs.**
- 4) **Instructional Processes and Strategies:**  
EDF 610, CI 623, CI 624, CIEC 530 or 534, CI 539, CI 551, CI 657, and CI 671.  
**TOTAL** ..... **24 hrs.**
- 5) **Literacy, Language, and Learning:** This combines theory, research, and practical applications in the areas of speaking, listening, writing, and reading. It is designed to help teachers explore literacy within an interactive and student-centered framework.  
CI 550, CI 551, CI 539, CI 636, one additional reading course with advisor approval, two electives with advisor approval.  
**TOTAL** ..... **21 hrs.**
- 6) **\*+Math through Algebra I:** This concentration is available to teachers who hold a valid professional license in any area other than mathematics. Satisfactory completion of the required courses, and passing the Praxis II meets the requirements for certification.  
CIME 555, CIME 556, CIME 650, CIME 657, CIME658, CIEC 600, CIME 670, and CIME 675 or CIME 677  
**TOTAL** ..... **21 hrs.**
- 7) **\*Middle Childhood Education:** The concentration in middle childhood education provides a certificate endorsement program for elementary and secondary teachers who have met initial licensure requirements. The endorsement will allow teachers to provide instruction in grades 5-9 within their area(s) of specialization.  
  
The coursework in this program may be used as an area of emphasis within the master's degree program in Elementary Education or Secondary Education or may be completed as a separate

Professional Development program. Individuals who wish to take the endorsement program but not pursue a master's degree should apply to the Professional Development program in middle childhood education. Teachers selecting this option must have an initial content specialization or complete a new one. Elementary Education is not a content area for 5-9 or 5-12. Passing the Praxis II is required.

CI 501, CI 503, EDF 502, CI 672

**TOTAL** ..... **12 hrs.**

- 8) +School Library Media Specialist:** The program will prepare K-12 teachers to manage school library media centers, collaborate with faculty to support the school curriculum and facilitate information literacy.

ITL 501, 502, 515, 622, 625, 631, 650, CIRG 613

**TOTAL** ..... **24 hrs.**

- 9) \*+Teaching English as a Second Language(ESL):** The purpose of the Teaching English as a Second Language (ESL) teacher preparation program is to prepare teachers to work with learners who enter school with a language other than English.

- 10) Individualized Plan of Study:** Students selecting a planned program must complete the curriculum course CI 501, CI 609, or CI 610 appropriate for their certification.

### LITERACY EDUCATION (M.A., Ed.S.)

#### 1. M.A. Degree Candidates

Each candidate must meet all admission requirements as a degree student. Scores from the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT) must be on file in the Graduate Admissions Office. A GRE verbal score of 400 or a MAT score of 389 is required; however the undergraduate Grade Point Average will be considered when candidates fail to meet the score criterion.

A candidate seeking the Reading Specialist/Literacy Coach degree must have (1) a valid teaching certificate and (2) a minimum of one year of teaching experience prior to completing the program. Degree candidates follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0.

#### Program of Study - M.A. in Reading Education

For the master's degree, the following courses must be completed:

CIRG 653 Literacy Acquisition .....	3
CIRG 636 Developmental Reading.....	3
CIRG 644 Literacy in the Content Area .....	3
CIRG 637 Literacy Assessment .....	3
CIRG 654 Aligning Assessment with Instruction .....	3
CI 550 Writing in an Integrated Literacy Framework .....	3
CIRG 622 The Use of Technology for Literacy Instruction .....	3
CIRG 643 Teaching Struggling Readers: A Practicum .....	3
CIRG 623 Reading Instruction for Literacy Facilitators: A Practicum .....	3
CIRG 621 Current Issues and Problems in Reading .....	3
Electives with advisor approval .....	6
<b>Total Credit Hours</b> .....	<b>36</b>

#### 2. Education Specialist Degree - AREA OF EMPHASIS IN Reading Education

The goal of the Education Specialist (Ed.S.) program is to provide a unified sequence of graduate studies for school and related personnel who wish to achieve proficiency beyond the master's level in Reading Education. Successful completion of the program leads to an Ed.S. in Education degree. Please contact the Reading Education program faculty for additional information.

#### 3. Certificate in Family Literacy:

##### Admission Requirements

A relevant baccalaureate degree, as determined by the Reading Program, from a regionally accredited college or university is needed for admission to the program.

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*Certificate Requirements*

This may be done either along with a master's degree program or independently.

*Program of Studies*

CIRG 651, CIRG 652, CIRG 653, CI 634

**TOTAL ..... 12 hours**

**4. Professional Development Students**

A student who holds a master's degree in education and seeks a Reading Specialist endorsement to the teaching certification completes 21 credit hours within the Reading program. Students should contact the Reading Education program area for information.

**SPECIAL EDUCATION (M.A.)**

**Admission Requirements - Special Education**

Students seeking admission as degree or professional development (certification only) students must submit official transcripts from all colleges and universities attended. All applicants must have an overall undergraduate GPA of 2.5. In addition, for full admission to the program, applicants must meet *one* of the following two requirements:

- A total of 800 on the verbal and quantitative sections of the Graduate Record Examinations (GRE) or
- A raw score of at least 30 or a scaled score of 378 on the Miller Analogies Test (MAT)

The GRE/MAT score requirement is waived for applicants holding a graduate degree. If for any reason the student is admitted provisionally, he/she must maintain a Grade Point Average of 3.25 for the first 12 hours of study.

A master's degree may be earned with a specialization in any of the areas of emphasis listed below. Students without a background in education must acquire certification in regular education prior to endorsement in Special Education, or they can enter the Alternative Certification Program (see Section 6). The Preschool Special Education endorsement is exempt from this requirement.

**Program of Study - M.A. in Special Education**

1. Master's Degree Requirements (Preschool Special Education, see #5)
    - CIEC 534 ..... 3 hrs.
    - CISP 611 and CISP 615 ..... 6 hrs.
    - CISP 627 or CISP 629 ..... 3 hrs.
  2. Special Education Core:
    - CISP 606, CISP 607, CIRG 644, CISP 626  
(CISP 626 is not required for the degree in gifted) ..... 15 hrs.
  3. Certification Area (select one)
    - Autism CISP 527, 662, 664
    - Behavioral Disorders CISP 645, 649
    - Deaf and Hard of Hearing (special education core not required) CIDH 501, 502, 504, 505,  
506, 601, 602, 607
    - Mentally Impaired 553, 651
    - Specific Learning Disabilities CISP 523, 646, 647
    - Gifted CISP 526, 601, 602, 603
    - Vision Impaired (special education core not required) CIVI 500, 501, 502, 503, 504, 600,  
601, 602, 603
    - Multicategorical CISP 553, 647, 645, 655
  4. Electives ..... 0 - 9 hrs.
- Total hours ..... 36-39 hrs.**
5. Preschool Special Education
    - General Education: EDF 621 or 625 and CISP 627 or 629 ..... 6 hrs.

Early Childhood Education: CI 632 and 634 .....	6 hrs.
Special Education: CISP 520, 529, 554, 661, 663, 665, 666, 674 .....	27 hrs.

Due to the nature of a student's undergraduate program the total required in Preschool Special Education may only be 36.

**Total hours for Preschool Special Education ..... 36 - 39 hrs.**

## 6. Alternative Certification Program

The Alternative Certification Program is designed to allow candidates from non-education backgrounds to obtain West Virginia teacher licensure in Specific Learning Disabilities, Mental Impairments, Visual Impairments, Behavior Disorders, Multicategorical, and Autism at the 5-Adult level. The alternative program does **not** include a general education teaching endorsement.

Students must meet all Special Education Program admission requirements. In addition to the general Special Education Admission requirements, applicants must pass the Praxis I (Pre-Professional Skills Test) in Reading, Mathematics, and Writing within their first twelve hours of coursework. The Praxis I requirement is waived for applicants with an enhanced ACT score of 26 or higher, a re-centered SAT score of 1125 or higher or if the applicant holds a master's degree.

Current West Virginia Department of Education initial certification requirements also require a minimum overall GPA of 2.5, as well as a 2.5 GPA in the content specialization area. Candidates in the Alternative Certification program must also meet the WVDE Praxis II testing requirements including the Principles of Learning and Teaching (PLT) test at the 5-9 or 7-12 levels.

In addition to the Special Education Core and Certification Area course requirements, students in the Alternative Certification program must complete EDF 619 and EDF 616 for certification. Additional master's degree requirements are the same as for all other Special Education master's degree programs.

### Additional Certification Requirements

All Special Education majors must pass the Praxis II Test in the area(s) in which they seek endorsement. The Special Education Content Specialization Test is taken at or near the end of the certification coursework in Special Education. Students should contact the Special Education Program Area for additional information about these tests.

### Special Note

The reauthorization of the Individuals with Disabilities Education Act (IDEA) has strengthened the requirements in the definition of "highly qualified" for special education teachers if they provide direct instruction in core academic subject areas (English, mathematics, science, etc.). Applicants' transcripts and teacher licenses will be analyzed upon admission to determine what, if any, additional coursework may be required to meet the federal requirements.

## TEACHING (M.A.T.)

The Master of Arts in Teaching (M.A.T.) degree program is an alternative means for college graduates with degrees in liberal arts, fine arts, business, and professional fields to attain teacher certification. The program provides the professional education courses and clinical experiences, including student teaching, necessary to prepare individuals for teaching a specific content area in grades PreK-Adult, 5-Adult or 9-Adult. Program completion results in the awarding of a Master of Arts in Teaching degree. Recommendation for certification typically takes place at the same time, unless there are West Virginia Department of Education requirements still pending. Please note that the M.A.T. program does not offer certification in Elementary Education or Special Education.

### Admission Requirements

1. Students must complete all admission requirements, which include: application, application fee, official transcripts, and the Graduate Record Examinations (GRE) or Miller Analogies Test (MAT). Regular admission requires a minimum total score of 800 on the GRE (verbal and quantitative sections) or a minimum score of 387 on the MAT.
2. Students must have a transcript analysis completed for the content specialization.
3. Students must have completed at least 50 percent of the content specialization prior to admission.

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4. Students must take and pass the Praxis I (PPST) in reading, writing, and mathematics. This requirement may be waived for applicants who present an enhanced ACT score of 26 or higher, a re-centered SAT score of 1125 or higher, or a previously earned master's degree or higher.
5. Students must have a 2.70 GPA overall and a 2.70 GPA in the content specialization.
6. Students must have completed at least 90 percent of the content specialization prior to student teaching.

**Program Options and Degree Requirements**

*1. Master of Arts in Teaching - Grades PreK-Adult*

- Art Education
- Physical Education
- Music Education

Foundations of Education and Technology .....	15 Hours
EDF 621 or 625, Research and Writing .....	3
EDF 660, 665, or 615 - Social and Cultural Foundations .....	3
EDF 616, Advanced Studies in Human Development .....	3
OR EDF 619, Educational Psychology	
EDF 537, Clinical I - Lab to accompany EDF 616 or EDF 619 .....	0
CIEC 530, 534, 600, or 660, Instructional Technology .....	3
EDF 612 or 535, Educational Evaluation or Classroom Assessment .....	3
Curriculum and Instruction .....	24 Hours
CI 503, Methods and Materials of Teaching in the Middle Childhood Grades .....	3
CISP 510, Intro. to Instructional Practices/Exceptional Children .....	3
CISP 521, Children with Exceptionalities .....	3
CI 515, Integrated Methods and Materials .....	3
EDF 637, Clinical II - Lab to accompany CI 515 .....	0
CI 624, Advanced Instructional Strategies .....	3
CI 631, Current Influences on Early Childhood .....	3
CIRG 644, Teaching Content Reading .....	3
*EDF 677, Clinical III - Student Teaching .....	3
In addition to the above courses, students must also complete all courses in their teaching specialization.	
<b>TOTAL .....</b>	<b>39 Hours</b>

\*Requires minimum of 90% completion of content courses.

*2. Master of Arts in Teaching - Grades 5-Adult*

- Athletic Training
- Business Education
- Family and Consumer Science
- French
- English
- Health Education
- Latin
- Mathematics
- Oral Communications (Speech)
- Physical Education
- General Science
- Social Studies
- Spanish

Foundations of Education and Technology .....	15 Hours
EDF 621 or 625, Research and Writing .....	3
EDF 660, 665, or 615 - Social and Cultural Foundations .....	3
EDF 616, Advanced Studies in Human Development .....	3
OR EDF 619, Educational Psychology	
EDF 537, Clinical I - Lab to accompany EDF 616 or 619 .....	0
CIEC 530, 534, 600, or 660, Instructional Technology .....	3

EDF 612 or 535, Educational Evaluation or Classroom Assessment .....	3
Curriculum and Instruction .....	24 Hours
CI 501, Middle Childhood Curriculum .....	3
CI 503, Methods and Materials of Teaching in the Middle Childhood Grades .....	3
CISP 510, Intro. to Instructional Practices/Exceptional Children .....	3
CISP 521, Children with Exceptionalities .....	3
CI 515, Integrated Methods and Materials .....	3
EDF 637, Clinical II - Lab to accompany CI 515 .....	0
CI 624, Advanced Instructional Strategies .....	3
CIRG 644, Teaching Content Reading .....	3
*EDF 677, Clinical III - Student Teaching .....	3

In addition to the above courses, students must also complete all courses in their teaching specialization.

**TOTAL .....** **39 Hours**

\*Requires minimum of 90% completion of content courses.

3. *Master of Arts in Teaching - Grades 9-Adult*

- Biology
- Chemistry
- Journalism
- Marketing Education
- Physics

Foundations of Education and Technology .....	15 Hours
EDF 621 or 625, Research and Writing .....	3
EDF 660, 665, or 615 - Social and Cultural Foundations .....	3
EDF 616, Advanced Studies in Human Development .....	3
OR EDF 619, Educational Psychology .....	
EDF 537, Clinical I - Lab to accompany EDF 616 or 619 .....	0
CIEC 530, 534, 600, or 660, Instructional Technology .....	3
EDF 612 or 535, Educational Evaluation or Classroom Assessment .....	3

Curriculum and Instruction .....	24 Hours
CISP 510, Intro. to Instructional Practices/Exceptional Children .....	3
CISP 521, Children with Exceptionalities .....	3
CI 515, Integrated Methods and Materials: Secondary Education .....	3
EDF 637, Clinical II, Lab to accompany CI 515 .....	0
CI 624, Advanced Instructional Strategies .....	3
CIRG 644, Teaching Content Reading .....	3
CI 549, Instructional and Classroom Management in Secondary Education .....	3
EDF or CI Elective .....	3
*EDF 677, Clinical III - Student Teaching .....	3

In addition to the above courses, students must also complete all courses in their teaching specialization.

**TOTAL .....** **39 Hours**

\*Requires minimum of 90% completion of content courses.

**SCHOOL PSYCHOLOGY (see separate section on page 152)**

**ENGINEERING (M.S.E.)  
(See Information Technology and Engineering [CITE])**

## ENGLISH (ENG)

Graduate courses in English provide detailed consideration of authors, literary types, and periods of literary history, as well as English language history and linguistics. Students are expected to acquire a broad acquaintance with the range of English and American literature and the English language; to acquire a basic knowledge of the terms and methods of literary theory; and to become thoroughly familiar with the forms of literature, critical standards, and the materials and methods of literary research.

Each candidate for the Master of Arts in English must select an area of specialization. The areas include the literature of the following periods: Medieval; Renaissance and 17th Century; Restoration and 18th Century; Romantic and Victorian; 19th Century American; Modern British and Modern American. Other areas are: Language and Linguistics; Critical Approaches to Literature; Genre Study; and Writing. The candidate may complete the specialization by taking three courses in an area or by taking two courses and writing a thesis in an area. In addition to this specialization each candidate must take at least one course in each of four other areas.

Students who major in English should have at least 15 undergraduate hours in English and American literature, and those taking English as a minor should have six hours' credit in literature on the undergraduate level. Students with deficiencies may enroll for graduate work but may be asked to take undergraduate courses suggested by the department before admission to candidacy for the degree. A minimum of six hours of college credit in a foreign language or demonstrated reading ability to the satisfaction of the English Department is required for admission to candidacy.

Students may be provisionally admitted to the M.A. in English program without having taken the GRE General Test, but to receive full admission, they must take the GRE during the first semester of study at Marshall.

English 630 is required for a major in English and is offered in the fall semester. This course should be scheduled among the first 12 hours of graduate study.

To complete the work for the master's degree in English the candidate must take 36 hours of coursework or, with a thesis, 32 hours, six of which may be earned by writing the thesis. The required grade average is 3.0 (B), and the candidate must pass a comprehensive examination upon the completion of the coursework.

Graduate students in English should discuss their programs frequently with the Director of Graduate Programs. Further and more particular information may be found in the document, "A Handbook for Graduate Students in English," available from the English Department.

The **Graduate Certificate in Medieval and Renaissance Studies** is an interdisciplinary program housed in Marshall University's English department. It draws upon the faculty and resources of five graduate academic departments to promote the interdisciplinary and cross-cultural studies of the period from Late Antiquity to the end of the 17th Century. One of the unique strengths of this certificate program is its breadth; students are encouraged to following their own interests and select from a wide range of courses within the guidelines described below.

**Requirements:** To earn a Certificate in Medieval and Renaissance Studies, students must complete 15 hours of relevant coursework. Six to 9 of these hours must come from the following list: ENG 509, 510, 511, 512, 517, 536, 537, 538, and 600. The remaining 6 to 9 hours may be drawn from the following: HST 506, 421, 602; ART 501, 405, 415, 519; MUS 650, 651; and advanced Latin. Certain Special Topics and Independent Studies courses may also be used. Students should check with the program administrator when selecting their courses.

The **Graduate Certificate Program in Creative Writing** is designed for writers wishing to pursue advanced, individualized study and practice in any genre(s): fiction, poetry, drama, non-fiction prose, and multiple genre work. With a diverse and well-published writing faculty, the English Department will work with all students to develop an appropriate course plan to suit their needs. Most courses qualify for teachers' re-certification and professional continuing education. Candidates must submit a writing sample of 5-10 pages along with their application.

To earn a Certificate in Creative Writing, students must complete 15 hours of coursework selected from the following list: ENG 508, 544, 558, 585 (Independent Study), 591, 592, and 593. Special Topics courses with a creative writing focus or creative writing courses available through MUGC Humanities may be substituted for up to 6 hours. A completed manuscript of twenty-five pages of original work constitutes the capstone requirement. A maximum of 9 hours of the certificate program courses, with approval of the chair, would be applicable for those wishing to pursue the M.A. in English.

## ENVIRONMENTAL ENGINEERING (ENVE) (See Information Technology and Engineering [CITE])

**ENVIRONMENTAL SCIENCE (ES)**  
**(See Information Technology and Engineering [CITE])**

**EXERCISE SCIENCE, SPORT, AND RECREATION**

The Division of Exercise Science, Sport, and Recreation (ESSR) offers graduate degrees in Exercise Science (M.S.) and Sport Administration (M.S.). Each degree program has distinct areas of emphasis. The Exercise Science program has three areas of emphasis: Athletic Training; Clinical Applied- Cardiac Rehabilitation; and Exercise Physiology. The Sport Administration degree program offers two areas of emphasis: Sport Management; and Recreation and Physical Activity.

Both degree programs require from 32 to 39 hours and successful completion of an oral comprehensive examination or thesis defense. Both thesis and non-thesis options are available.

Admission in good standing is different for the two degree programs. A personal interview may be required. Provisional admission to a program is possible, and will be considered on an individual basis. All students applying must have successfully completed an undergraduate course in either exercise physiology or human physiology. This requirement should be completed within the first 12 hours of graduate study.

Students are limited to six semester hours of transfer credit from other institutions, and limited to a maximum of nine semester hours taught at the 500-level. Provisional admission requiring a 3.0 minimum GPA must be attained within the first 12 hours of graduate coursework. Provisional admission requiring the student to take undergraduate coursework must be completed within the first 12 hours of graduate coursework.

**A. Exercise Science, M.S. Degree**

The M.S. in Exercise Science degree prepares students for allied health and medical careers in the clinical, commercial, corporate, community, university, and medical settings. Options include an emphasis on leadership roles and skills that permit one to work with individuals on a client/patient continuum extending from the elite athlete to those with chronic disorder/disease to the cardiac transplantation patient as well as the in between - the recreational athlete and those simply wishing to stay healthy by living sensibly. Options include careers as clinicians in cardiopulmonary rehabilitation and diabetes management programs, as athletic trainers, as exercise physiologists, as well as preparation for other medical fields including physical therapy, pharmaceutical and pacemaker sales, as pharmacists, as physician assistants, as physicians, and for advanced degrees in related doctoral programs.

The course of study for the M.S. in Exercise Science degree is a two-year program with a 36-39-hour requirement. Admission to the program requires a 2.75 GPA, an appropriate undergraduate/graduate background, completion of the GRE, three letters of reference, and admission to the Graduate College.

The *Athletic Training Area of Emphasis* is designed to meet the needs of the clinical, high school, middle school, college, professional, industrial, and independent athletic trainer. The program is designed to build on existing knowledge and skills the student has acquired in the student's respective undergraduate program. Elective courses can chose from the approved courses with approval of the student's assigned academic advisor and/or can be determined by the academic advisor depending on the student's background, needs, and/or weaknesses. The emphasis in athletic training can be accomplished by a thesis or non-thesis track. Successful completion of oral comprehensive exam/thesis defense is required for graduation. Six hours of the degree may be fulfilled with coursework outside the Division of ESSR.

The *Clinical Applied Area of Emphasis: Cardiac Rehabilitation* focuses on health promotion, disease prevention, and rehabilitation in the clinical, corporate, commercial, community, and medical settings. The course of study has a strong science orientation. Research clearly shows that seventy percent (70%) of all premature death and chronic disability could be prevented with appropriate life-style changes. This includes sensible nutrition, exercise, smoke cessation, and related behavioral changes. Such intervention and risk factor management can significantly reduce all-cause mortality and morbidity from cardiovascular disease, diabetes, osteoporosis, obesity, mental health disorders, and cancer. Our quality of life, as well, can be improved and our chances for longevity increased. Because of the awareness and the skyrocketing cost of contemporary treatment-oriented health care, our graduates are becoming major players in an alternative approach emphasizing health promotion, disease prevention, and rehabilitation.

The *Exercise Physiology Area of Emphasis* is broadly based upon basic sciences: human anatomy, physiology, chemistry, and biology. Exercise Physiology is chiefly concerned with how the acute and chronic effects of exercise influence various cells, tissues, and physiological systems. Exercise Physiology is a highly integrative field of study that involves examining how the failure or enhancement of one physiological system can influence another. Graduate students have the opportunity to be involved in both applied research and basic science pertaining to the effects of exercise on physiological systems at both the cellular and molecular levels.

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**Course Requirements**

Athletic Training Area of Emphasis .....	36 Hours
Research: ESS 670 .....	3
Statistics: EDF 517 or equivalent .....	3
Required: ESS 621, HS 579, ESS 601, ESS 687 .....	12
HS 540 or HS 640 .....	3
HS 548 or 646 .....	3-5
Restricted Electives (as approved by advisor) .....	6
Thesis (HS 681) or Internship (HS 660) .....	6
Clinical Applied Area of Emphasis: Cardiac Rehabilitation .....	39 Hours
Physical Education: ESS 601, ESS 621, ESS 682, ESS 683, ESS 684, ESS 685, ESS 687 .....	21
Research: ESS 670 .....	3
Statistics: EDF 517 or equivalent .....	3
Restricted Electives .....	6
Clinical Internship (ESS 660) .....	6
Exercise Physiology Area of Emphasis .....	39 Hours
Required: ESS 578, ESS 601, ESS 621, ESS 642, ESS 683, ESS 684, ESS 687 2 1	
Research: ESS 670 .....	3
Statistics: EDF 517 or equivalent .....	3
Restricted Electives .....	6
Thesis (ESS 681) or Internship (ESS 660) .....	6

**B. Sport Administration, M.S. Degree**

The Sport Administration M.S. degree is a program in the Division of ESSR with areas of emphasis in Sport Management or Recreation and Physical Activity. Graduates of this program are prepared to work in a variety of settings.

The criteria for full admission are a 3.0 undergraduate GPA, at least a 25th percentile average on the three sections of the GRE, and a strong background in sport participation and/or sport administration. A limited number of students will be admitted provisionally. The provisional criteria are a minimum of 2.75 undergraduate GPA, at least a 15th percentile average on the three sections of the GRE, and a strong background in sport participation and/or sport administration. Students transferring from other Marshall University graduate programs must meet all admission requirements.

Students who are admitted to the program must have successfully completed an undergraduate course in exercise physiology or human anatomy, or must complete the Marshall University course in an undergraduate exercise physiology within the first 12 hours of graduate work.

If the thesis option is selected, the student must complete 32 hours, of which six hours are for the thesis. The non-thesis option requires the completion of 36 hours. However, both options require the successful passing of an oral comprehensive examination or thesis defense. Programs illustrated below are the non-thesis option.

Sport Management Area of Emphasis .....	36 Hours
Physical Education: ESS 652, ESS 670, ESS 675, and ESS 621 or ESS 642 .....	12
Research Course: EDF 517, HST 600, MGT 500 or 601, PSY 517 .....	3
ESSR electives: Select from among ESS 501, ESS 516, ESS 524, ESS 525, ESS 530, ESS 575, ESS 580-583, ESS 585-588, ESS 615, ESS 620, ESS 643, ESS 660, ESS 696, PLS 511 .....	15
External Minor .....	6
Recreation & Physical Activity Area of Emphasis .....	36 Hours
Physical Education Required: ESS 670, and ESS 621 or ESS 642 .....	6
Research Course: EDF 517, HST 600, PSY 517 .....	3
ESSR Electives (Select courses with the approval of advisor) .....	21
External Minor .....	6

## **FAMILY AND CONSUMER SCIENCE (FCS)**

Students are admitted to the Master of Arts in Family and Consumer Sciences (FCS) program by submitting the following:

- A transcript showing a completed undergraduate degree with a minimum 2.5 GPA;
- A letter of application outlining the student's goals for an M.A. in Family and Consumer Science;
- 12 hours of coursework in Family and Consumer Science or a closely related field (examples: nutrition, human development, family resource management, design in the near environment). Students who do not have sufficient background may fulfill this requirement by completing approved undergraduate Family and Consumer Science courses sufficient to assure success in Family and Consumer Sciences graduate studies;
- A minimum of 1000 (quantitative and verbal) on the GRE if undergraduate GPA is below 3.0, or a minimum of 800 (quantitative and verbal) on the GRE if undergraduate GPA is a 3.0 or above.

The Master of Arts in Family and Consumer Science requires 32 semester hours of graduate work, of which not more than 6 hours may be earned by a thesis. If a thesis is not submitted, a minimum of 36 hours of coursework must be completed. Each graduate is expected to conduct independent research through a special problem and problem report or thesis. Courses in statistics and/or research methods are required of all students. EDF 517 and EDF 621 or EDF 625 are often selected.

A minimum of 18 hours in Family and Consumer Science is required, including FCS 600. In addition a thesis, FCS 681, or a problem report, FCS 684 and 679, is required. One minor with a minimum of 9 hours is recommended. The remaining hours are planned to meet the individual student's professional needs. Prospective students should contact the Family and Consumer Science program coordinator for further information.

## **FORENSIC SCIENCE (FSC)**

The Master of Science degree in Forensic Science is a two-year curriculum which provides a thesis and non-thesis track. The thesis track stresses a research component where students conduct original research and prepare, as well as defend, a written thesis based on their investigation. The thesis track requires that the student complete a minimum of FSC 685 (3 credit hours) and FSC 681 (3 credit hours) in addition to the general or emphasis curricula. Class attendance is mandatory. Students are also required to participate in a summer internship program and to pass a written, comprehensive examination at the end of their final semester in the program. Applicants to the Forensic Science program must apply for admission through the Marshall University Graduate Admissions Office, 100 Angus E. Peyton Drive, South Charleston, WV 25303-1600. Application to the program requires that the student provide the following formal documentation:

- Applicants must have successfully completed a bachelor's degree in biology, chemistry, or forensic science (or its equivalent coursework in a relevant field) from an accredited institution of higher education to include a grade of B or better in the following courses for science majors:
  - General chemistry I and II with associated labs
  - Organic chemistry I and II with associated labs
  - Biology I and II with associated labs
  - Physics I and II with associated labs
- 3.0 Grade Point Average (GPA) or higher
- 1100 or higher cumulative score on the verbal and quantitative section on the Graduate Record Examination (GRE) (GRE taken prior to October 1, 2002 requires a minimum of 1500 for application)
- Official transcripts documenting the above academic requirements
- A cover letter expressing the student's desire to be admitted to the Forensic Science Program
- 3 formal letters of recommendation (on letterhead) from individuals familiar with the applicant's relevant academic, professional and moral character

All application materials must be received by March 1 to be considered for Fall term enrollment in any given year.

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Upon formal admission to the program, forensic science students are required to provide documentation that they have been vaccinated for hepatitis B or to sign a formal hepatitis B vaccination declination statement. A special fee structure is in place for forensic science students. For more information on fees, call (304) 690-4363, ext. 201, or e-mail *forensics@marshall.edu*.

**Core Curriculum**

To permit the development of areas of emphasis, while maintaining a broad-based forensic science education, a core curriculum has been established, as follows:

	Hrs.
FSC 606, Crime Scene and Death Investigation .....	2
FSC 618, Forensic Comparative Sciences .....	2
FSC 612, Forensic Microscopy .....	2
FSC 604, Genetics and DNA Technologies .....	3
FSC 622, Forensic Analytical Chemistry I .....	3
Seminar (4 semesters @ 1 hr. per semester) .....	4
Internship .....	5
FSC 665, Legal Issues in Forensic Science .....	3
MTH 519, Statistical Issues in Forensic Science .....	3
FSC 632, Foundations and Fundamentals in Digital Evidence .....	3
FSC 624, Forensic Biochemistry .....	4
Approved Electives or Thesis .....	4
<b>Total Core Requirements .....</b>	<b>38</b>

**Areas of Emphasis**

*Computer Forensics.* Criminals now use computers to carry out a variety of crimes, from viral attacks to financial fraud. This emphasis will prepare students for positions in law enforcement and private corporations to combat the threat of these computer-savvy criminals.

The emphasis requirements are as follows:

FSC 609, Introduction to Cybercrimes .....	3
IS 651, Information Security .....	3
FSC 605, Forensic Digital Imaging .....	3
FSC 676, Advanced Digital Evidence Recovery .....	2
<b>Total Emphasis requirements .....</b>	<b>11</b>
<b>Total including Forensic Science core .....</b>	<b>49</b>

*DNA Analysis.* Marshall’s Forensic Science Center is home to both this academic program and the Combined DNA Index System (CODIS) laboratory, which performs convicted felon and parentage DNA testing. Due to this association, students gain valuable experience in and out of the classroom with respect to DNA analysis and facility operation.

The emphasis requirements are as follows:

FSC 603, Genetics and DNA Technologies Lab .....	1
BMS 614, Human Genetics, or another Forensic Science faculty-approved, graduate level course with a genetics or DNA emphasis .....	2
BMS 600, Cell and Molecular Biology, or BSC 550, Molecular Biology .....	3
<b>Total Emphasis requirements .....</b>	<b>6</b>
<b>Total including Forensic Science core .....</b>	<b>44</b>

*Forensic Chemistry.* This emphasis will provide students interested in careers in forensic drug analysis, toxicology, and trace evidence analysis additional coursework needed for those forensic disciplines. Some state and federal agencies require 30 or more hours of chemistry-related coursework for these disciplines. This emphasis requires a minimum of 9 hours of additional coursework, as follows:

FSC 608, Forensic Toxicology .....	3
FSC 626, Advanced Drug Analysis .....	2
FSC 628, Forensic Analytical Chemistry II .....	2
Graduate-level Chemistry course, or FSC Independent Study or FSC Special Topics course in a forensic chemistry-related area .....	1
<b>Total Emphasis requirements .....</b>	<b>8</b>
<b>Total including Forensic Science core .....</b>	<b>46</b>

**FRENCH (FRN)**

The Department of Modern Languages offers courses which may be appropriate as a minor in some programs.

## **GEOGRAPHY (GEO)**

Students wishing to earn a master's degree in geography have the option of selecting either a Master of Arts or Master of Science degree. While the core requirements are the same for both degrees, the M.S. degree requires that the student complete six credit hours of graduate science courses outside the department. The M.S. option allows students to specialize in a more technical/science-based program leading to employment in environmental planning, computer cartography, GIS/remote sensing, conservation, or physical geography. Students pursuing an M.A. degree may choose an emphasis in planning, GIS, political geography, or general human geography. A minor in a related discipline outside the department is strongly recommended for students pursuing the M.A. degree. The M.A. minor allows students to draw upon expertise in a related field and enrich their academic development. Both the M.S. and M.A. degree options prepare the graduate for advanced work at the doctoral level.

Since we tailor the program to the specific needs of the individual student, offer a flexible curriculum, and keep our offerings updated with changes in the field and the job market, many of our students secure employment as professional geographers before graduation. Graduates of the program include urban and regional planners, GIS professionals, cartographers, environmental specialists, economic development consultants, city/county government workers, and international trade consultants, just to name a few.

The prerequisite for a graduate major is 12 semester hours of undergraduate coursework in geography or permission from the faculty.

### **Degree Requirements**

The requirements for the master's degree consist of 1) meeting the general requirements for the Graduate College; 2) completing one of the following: thesis, applied project, or comprehensive exams; and 3) completing not fewer than 24 hours of graduate coursework in geography.

### **Required Courses:**

GEO 521\* Concepts and Methods in Geography

GEO 540\* Quantitative Methods in Geography

GEO 609 Geographical Research

Any graduate-level GIS course, minimum three credit hours.

\* Requirement waived if course was taken at the 400 level as a Marshall undergraduate.

## **GEOLOGY (GLY)**

Marshall University does not offer a graduate degree in Geology, but students interested in this field may pursue a Master of Science in Physical Science. This degree program is offered in cooperation with the Departments of Chemistry, Mathematics and Physical Science and Physics. For the Geology concentration, the writing of a thesis is required.

## **HEALTH CARE ADMINISTRATION (See BUSINESS)**

## **HISTORY (HST)**

Students who have not completed an undergraduate major in history must have at least 15 hours of undergraduate courses in history, including 12 hours in the World and American history surveys. Students with deficiencies may enroll for graduate work but may be asked to take undergraduate courses suggested by the Director of Graduate Studies before admission to the degree program.

A student pursuing the Master of Arts degree in history must submit a Plan of Study in the semester no later than the completion of 18 graduate credit hours. A student must earn a quality point average of at least 3.0 (*B*) on all graduate work applicable to the degree. The application, bearing a record of courses completed, must be made on a form secured from the Graduate Dean's Office.

A student who receives a second grade of *C* or below at any time while pursuing the Master of Arts degree in History must withdraw from the program. In addition, M.A. students in History must earn at least a 3.0 (*B*) grade point average in all History courses as a requirement for graduation.

A history student whose program requires a thesis must earn 32 hours of credit in graduate courses. Of these 32 hours, credit not to exceed 6 hours may be granted for the thesis. The student must enroll in History 681 Thesis 1-6 hours, for which he or she is allowed not more than 6 hours of credit. A history student whose program does not require a thesis must complete 36 hours of graduate coursework.

A minimum of 30 hours must be earned in the major field and a minimum of 6 hours in a minor field. Students choosing a minor field must do so with the approval of the departmental Director of Graduate Studies. On recommendation of the Graduate Dean the requirement of a minor may be waived.

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History students are required to complete History 600 Methodology Seminar in Historical Methods. Students must earn credit hours in as many 600 level courses as in 500 level courses.

It is recommended that students earn credit hours in a wide distribution of historical areas and periods from a diversity of instructors.

The Graduate Record Examination (GRE) General Test is required of all applicants to the graduate program in History. The GRE scores must be sent by the Educational Testing Service directly to Marshall University when the student applies for admission.

## **HOME ECONOMICS (See Family and Consumer Sciences)**

## **HUMAN RESOURCE MANAGEMENT (See BUSINESS)**

## **HUMANITIES**

The Master of Arts in Humanities stresses an interdisciplinary approach, embracing a variety of fields, while allowing conventional disciplinary studies as an integral part of the program. Students consult with faculty advisors to determine individual plans of study. After completing a prescribed core of humanities courses, the student elects one of four areas of emphasis (Arts and Society; Cultural Studies; Historical Studies; Literary Studies). Although the student's plan may encompass courses from more than one area of emphasis, it will have strong intellectual coherence. The program enhances the student's ability to deal critically and flexibly with intellectual, social, political, historical, literary, or artistic issues with a broad humanistic perspective.

The Humanities Program strongly encourages students not concerned with pursuing the degree (such as teachers using classes for certification and those who want to take courses for their own continuing education) to enroll as non-degree students.

Students seeking a Master of Arts in Humanities should apply as degree students. Applicants to the degree program must meet the following requirements: (a) a score of 450 or above (40%) on the verbal section of the Graduate Record Examination (GRE) General Test or an equivalent score on the Miller Analogies Test (MAT); (b) an undergraduate major in the humanities, and (c) an overall undergraduate grade point average of 3.0 on a scale of 4, or a score in or above the 40th percentile in one of the following areas of the Graduate Record Examination Subject Tests: French, German, Spanish, history, literature in English, music, philosophy.

Applicants who do not meet these requirements may gain admission to the degree program by completing the following provisions: a grade of B or above in their first twelve hours of coursework in the humanities, the twelve hours to include the course in Expository Writing for Research (Humanities 604) and one other core course (Humn 600, 601, 602, 603, or 605).

Degree students have the options of a thesis or final project. Those electing the thesis complete a total of 36 hours, six of which are the thesis (HUMN 680 and 681). Students electing the project option complete a total of 39 hours, three of which are the project (HUMN 680). With both options, students must pass a comprehensive examination. All individual plans of study are organized according to the following general structure: I. Humanities Core (12 hours): Humn 600 and 604 and two others (Humn 601, 602, 603, or 605); II. Area of Emphasis (minimum of 15 hours); III. Program Electives (3-12 hours); IV. Independent Research Project (3 hours) or Thesis (6 hours). Within an area of emphasis, a student may select courses to develop personal interests. Note: Not all courses are offered at every teaching site. Students should understand that some plans of study may require travel to other teaching sites in West Virginia.

No more than twelve hours may be taken at the 500 level. A student nearing the completion of a plan of study may request an independent study course on a topic unavailable through regular courses. In such a case, the student will work under the direct supervision of a faculty member. The student's advisor and the program director must approve the independent study.

Degree students are expected to maintain a 3.0 Grade Point Average in their courses. After a minimum of 24 hours of course credits and consultation with the advisor, a student is eligible to sit for the examination which is related to the core and to the individual plan of study. Note: Students may not enroll in Humanities 680 until they have passed the comprehensive examination.

For further information on the degree program (sample plans of study, comprehensive examination, and independent research options), students should consult the Humanities Program Guide, available from the program director in South Charleston. Because degree students in Humanities have individualized plans of study, they are cautioned to contact the program director when applying for graduate study and to meet regularly with their advisors.

*Graduate Certificate Program:* The Humanities program is home for the Graduate Certificate in Appalachian Studies, a non-degree program of 18 hours composed of foundation courses (CULS 611 and

612), electives to meet specific educational goals, and a capstone research experience (HUMN 680). For additional information, contact the Humanities Program.

*Note:* Course Listings for Humanities begin on page 212. Some courses in Art and Design, Classics, Communication Studies, English, History, Journalism and Mass Communications, and Philosophy also may be appropriate for the plan of study in Humanities.

## **INDUSTRIAL AND EMPLOYEE RELATIONS** (See **HUMAN RESROUCE MANAGEMENT in BUSINESS**)

### **INFORMATION TECHNOLOGY AND ENGINEERING (CITE)**

The College of Information Technology and Engineering (CITE) has offices on both Huntington and South Charleston campuses. CITE offers master's degree programs and professional development short courses in Engineering, Information Technology, Environmental Science, Safety, and Technology Management. Courses are offered Huntington, South Charleston, and other locations by arrangement, at times convenient to working professionals. Following are the master's degree programs offered:

Engineering (M.S.E.) with Areas of Emphasis in:

Engineering Management  
Environmental Engineering

Environmental Science (M.S.)

Information Systems (M.S.)

Safety (M.S.) with Areas of Emphasis in:

Ergonomics  
Industrial Hygiene  
Occupational Safety and Health  
Mine Safety  
Safety Management

Technology Management (M.S.) with Areas of Emphasis in:

Environmental Management  
Information Technology  
Manufacturing Systems  
Transportation Systems and Technologies

Following are descriptions, admission requirements, and program requirements for each of the five CITE M.S. degree programs.

### **ENGINEERING**

The M.S. in Engineering (M.S.E.) program is an interdisciplinary engineering program designed to meet the specific needs of engineers employed in industry, government, and consulting. The program offers a broad core curriculum with opportunities for concentrated study in two areas of emphasis: Engineering Management and Environmental Engineering.

#### **Admission Requirements**

Each applicant for admission to the M. S. in Engineering program must have an undergraduate engineering degree from an ABET-accredited college or university, and must satisfy at least TWO of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Have an undergraduate GPA of 2.75 or above
- Have passed the FE exam and/or the P.E. exam

Also, foreign nationals must score at the mean or above on the TOEFL, and must have met all other admission criteria *prior* to registering for the first semester of courses.

#### **Degree Requirements**

Each degree candidate is required to complete at least 36 graduate credit hours, consisting of 15 credit hours of core courses plus 21 additional hours of required courses and electives in the applicable area of emphasis, with a cumulative Grade Point Average of 3.0 for the courses included in the student's

Plan of Study. Each degree-seeking student must have an approved “Plan of Study,” developed with a faculty advisor, that must be filed with the CITE dean no later than the semester in which the student completes the 9<sup>th</sup> credit hour. Please consult the Academic Regulations portion of the *Graduate Catalog* for other information.

The Engineering program culminates with the comprehensive graduate project. This project is not the traditional graduate thesis with a research orientation, but rather a real-life, industry-type project in which the student undertakes an assignment that requires synthesis of all of the coursework and its application to a typical problem from a relevant subject area.

**Core courses:**

EM 660	Project Management .....	3 hrs.
ENGR 610	Applied Statistics .....	3 hrs.
ENGR 620	Computer Applications (or approved equivalent) .....	3 hrs.
TE 698	Comprehensive Project Formulation .....	3 hrs.
TE 699	Comprehensive Project .....	3 hrs.

**Requirements for areas of emphasis:**

*Engineering Management:*

EM 620	Management of Technical Human Resources and Organizations .....	3 hrs.
EM 675	Engineering Economics (or TM equivalent) .....	3 hrs.
IE 670	Operations Management .....	3 hrs.
Four approved CITE elective courses .....		12 hrs.

*Environmental Engineering:*

ES 614	Environmental Risk Assessment .....	3 hrs.
ENVE 681	Environmental Engineering Design .....	3 hrs.
ENVE 615	Environmental Chemistry .....	3 hrs.
ES 660	Environmental Law I .....	3 hrs.
One of the following courses: Air Pollution Design, Air Pollutant Dispersion Modeling, Environmental Geotechnology, Groundwater Principles .....		3 hrs.
Two approved elective courses .....		6 hrs.

**ENVIRONMENTAL SCIENCE**

**Graduate Degree Program Description**

The environmental science program gives the student the broad multi-disciplinary subject matter and analytical tools necessary to be successful in such professions as consulting, industrial environmental management and environmental protection. Students from diverse science backgrounds apply their knowledge and skills to environmental problems, such as air pollution and control; water pollution and treatment; groundwater protection, contamination and remediation; solid and hazardous waste management.

**Admission Requirements**

For regular admission, applicants to the Environmental Science program must complete General Admission and Program requirements *prior* to registering for the first semester of courses.

*1. General Admission Requirements*

Each applicant for admission must have an undergraduate degree from an accredited college or university, and must satisfy at least ONE of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.50 or above
- Have passed the Fundamentals of Engineering exam and/or the Professional Engineering exam

*2. Program Requirements*

In addition to the general requirements all students entering the graduate Environmental Science program must have completed prior to admission the following courses OR their equivalent:

Chemistry 211 and Math 130 with a grade of *C* or better, AND a minimum total of FIVE (5) courses/competencies, relevant to environmental science, from the following: Chemistry (200 level or above); Physics (200 level or above); Biology; Geology; Geography; Statistics; Soil Science; Law; Health and Economics; 10 years relevant work experience.

### **Degree Requirements**

Students must complete 36 graduate credit hours at the graduate level, including at least 24 credit hours at Marshall University. The degree consists of 12 credit hours of core courses; 12 credit hours of required courses; and 12 credit hours of electives.

### **Core Courses**

EM 660, Project Management (3 hrs.)

ENGR 610, Applied Statistics (3 hrs.)

TE 698, Comprehensive Project Formulation - after completion of 18 hours (3 hrs.)

TE 699, Comprehensive Project - after completion of 27 hours (3 hrs.)

### **Additional Degree Requirements for Program**

#### *Required Courses*

ES 614, Environmental Risk Assessment (3 hrs.)

ENVE 615, Environmental Chemistry (or ES 646 or SFT 651) (3 hrs.)

ES 660, Environmental Law I (or ES 662 or ES 655) (3 hrs.)

ES 620, Environmental Management Systems (3 hrs.)

#### *Electives*

On completion of the MS Environmental Science degree program the student should have the requisite scope of knowledge and competency in specific environmental subject matter. Students are required to take 12 credit hours of elective courses and use them to satisfy proficiency courses: TWO Environmental Science program electives; ONE division elective (an approved course in the division); ONE CITE elective (an approved course in CITE). The required and elective courses should be outlined in the Plan of Study. The Plan of Study should be developed in cooperation with and signed by the student's advisor and should be completed prior to completing 18 credit hours.

## **INFORMATION SYSTEMS**

The Information Systems program prepares participants to be effective users, designers, and developers of information systems, people who can add value to processes and products in organizations. The program also helps participants to improve their professional writing, presentation, and teamwork abilities. Specific objectives expected of graduates include:

- The ability to describe a situation as a system, specifying components, boundaries, and interfaces
- Communication skills for effectively leading teams, collaborating with managers in defining needs and opportunities, and assisting colleagues
- Knowledge of the basic hardware and software components of computer systems and their configurations
- The ability to develop specifications for a software system in terms of functions, modules, and interfaces
- The ability to gather and use information needed by information systems professionals
- Mastery of the technical and human skills needed to successfully deploy information technologies in various organizational settings.

### **Admission Requirements**

Each applicant for admission to the M. S. in Information Systems program must have an undergraduate degree from an accredited college or university, and must satisfy at least TWO of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical writing portion of the GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.75 or above
- Have passed the FE exam and/or the P.E. exam

*(continued)*

Also, foreign nationals must score at the mean or above on the TOEFL, and must have met all CITE admission criteria *prior to* registering for the first semester of courses.

Applicants with a wide variety of backgrounds are welcome. In addition to the admission requirements stated above, an applicant wishing to major in Information Systems must have the following credentials and abilities:

- Ability to write structured programs in a high level language and familiarity with computer systems
- A reasonable quantitative or mathematical maturity. College algebra and statistics with a grade of *B* would minimally meet this requirement
- Ability to use microcomputer systems for word processing, spreadsheet analysis, telecommunications, and data management
- Reasonable communication skills demonstrated by being able to write a coherent, grammatically correct, short theme that clearly communicates an idea.

### Prerequisites

Prospective students without the skills outlined above should take the following courses or their equivalents before entering the degree program:

- Computer Systems and Programming: IS 500 and 510 - Computer Systems and Structured Programming I and II
- Mathematical Maturity: College algebra or IE 610 - Statistical Design
- Communication Skills: This need will normally be addressed by requirements within the program. In some cases, additional work may be required.

### Degree Requirements

Students must complete 36 graduate credit hours at the graduate level, including at least 24 credit hours at Marshall University. The degree consists of 27 credit hours of required courses and 9 hours of approved elective courses.

#### Required courses:

IS 600	Management Information Systems
IS 605	Systems Analysis Techniques
IS 610	Systems Design
IS 621	Information Structures 1
IS 622	Information Structures 2
IS 623	Database Management
IS 625	Software Engineering
EM 660	Project Management
TE 699	Comprehensive Project – after completion of min. 27 hours

#### Electives:

Three or more elective courses approved by the student's advisor complete the program. In addition to Information Systems courses, these may include courses offered by other majors and by other institutions.

### SAFETY (SFT)

#### Graduate Degree Program Description

No human endeavor or undertaking can be done without involving the field of safety technology. Safety professionals work in a variety of situations alongside management to ensure the health and safety of all employees. The graduate curriculum in Safety is divided into several areas of emphasis: Ergonomics, Industrial Hygiene, Occupational Safety and Health, Safety Management. The Master of Science degree has a 36 semester credit-hour requirement. A thesis may be submitted which would require 32 credit hours of graduate coursework with no more than 6 credit-hours to be earned by the thesis. A final (written) comprehensive examination is administered to all candidates, thesis and non-thesis, by a committee of three members of the graduate faculty in the College of Information Technology and Engineering (CITE), including the student's advisor. Comprehensive examinations will be administered during the spring and fall semesters.

#### Admission Requirements

For regular admission, applicants to the Environmental Science and Safety programs must complete General Admission and Program requirements *prior to* registering for the first semester of courses.

## 1. General Admission Requirements

Each applicant for admission must have an undergraduate degree from an accredited college or university, and must satisfy at least ONE of the following criteria:

- Score at the mean or above on the verbal GRE
- Score at the mean or above on the quantitative GRE
- Score at the mean or above on the analytical GRE
- Score at the mean or above on the Miller Analogies Test
- Have an undergraduate GPA of 2.50 or above
- Have passed the Fundamentals of Engineering exam and/or the Professional Engineering exam

## 2. Program Requirements

In addition to the general requirements all students entering a program must have completed prior to admission the following courses or their equivalents:

### SAFETY EMPHASIS:

- Occupational Safety and Health - MTH 130 or equivalent, PHY 101 and 101L or equivalent, and CHM 203 or equivalent
- Safety Management - MTH 130 or equivalent, PHY 101 and 101L or equivalent, and CHM 203 or equivalent
- Industrial Hygiene - MTH 130 or equivalent, PHY 101 and 101L or equivalent, and CHM 203 and 204 or equivalent

## Core Courses

SFT 599, Occupational Safety Program Management .....	3
SFT 610, Philosophical and Psychological Concepts in Occupational Safety and Health .....	3
SFT 630, Current Literature and Research in Occupational Safety and Health .....	3

## Areas of Emphasis

### Occupational Safety and Health

<i>Required Courses</i>	<i>Hours</i>
SFT 540, Industrial Fire Prevention .....	3
SFT 554, Industrial Hygiene I .....	3
SFT 597, Occupational Safety Program Development .....	3
SFT 645, Safety Engineering and Equipment Design .....	3
SFT 660, Human Factors in Accident Prevention OR SFT 560, Fundamentals of Ergonomics .....	3
ES 660, Environmental Law I .....	3
<i>Electives:</i> Students must take the remaining 9 hours of electives from the following .....	9
SFT 589, Process Safety Management .....	3
SFT 565, Incident Investigation Techniques .....	3
SFT 553, International Safety .....	3
SFT 650, Internship .....	3
Or students may take the thesis option.	

**Total (including core) .....** 36

### Safety Management

<i>Required Courses</i>	<i>Hours</i>
CMM 508, Leadership and Group Communication or CMM 420, Communication and Conflict .....	3
CMM 520, Communication and Conflict .....	3
PSY 518, Psychology of Personnel OR PSY 520, Introduction to Industrial Organizational Psychology .....	3
MKT 511, Marketing and Management .....	3
ES 620, Environmental Management Systems .....	3
ES 660, Environmental Law I .....	3
SFT 554, Industrial Hygiene I .....	3
SFT 597, Occupational Safety Program Development .....	3
SFT 660, Human Factors in Accident Prevention .....	3

(continued)

<i>Electives:</i> Student is to choose three (3) additional hours of 600-level courses with advisor's permission or elect thesis option .....	3
<b>Total (including core)</b> .....	<b>36</b>

**Industrial Hygiene**

<i>Required Courses</i>	<i>Hours</i>
SFT 560, Fundamentals of Ergonomics .....	3
SFT 647, Industrial Hygiene II .....	3
SFT 647L, Quantitative Industrial Hygiene Laboratory .....	3
SFT 649, Biophysical Hazards and Monitoring .....	3
SFT 651, Toxicology and Epidemiology .....	3
SFT 661, Advanced Ergonomics .....	3
SFT 663, Work Environment Issues .....	3
SFT 679, Problem Report .....	3
<i>Electives:</i> Students must take the remaining 3 hours of electives from the following .....	3
SFT 589, Process Safety Management .....	3
SFT 660, Human Factors in Accident Prevention .....	3
SFT 553, International Safety .....	3
Others as approved by advisor.	
<b>Total (including core)</b> .....	<b>36</b>

**Mine Safety (MSF)**

The Mine Safety graduate program is offered in cooperation with the National Mine Safety and Health Academy, Beckley, WV. The program is designed for underground and surface mining and is applicable to all aspects of the metallic and non-metallic mining industry. The Division Chair of Environmental Science and Safety Technology grants permission for admission to this area of emphasis. Please contact the Division Chair for further information prior to applying for admission to this program.

**TECHNOLOGY MANAGEMENT**

The M.S. in Technology Management degree program is designed primarily for working professionals with both technical and non-technical backgrounds who want a better understanding of technological change and its relevance to competitiveness and business strategy. Program course work has a practical emphasis, with real-world projects designed to develop skills that can be put to use on the job immediately. Courses are currently available in both Huntington and South Charleston. All courses necessary to complete the M.S. in Technology Management in any of the available emphases will be offered at both sites, and other locations upon demand.

**Program benefits:**

- Learn how to evaluate and use technology to meet changing customer needs and markets
- Learn how to weigh the costs/benefits of technology decisions
- Understand the effects of technological change on organizations and how to help people adapt to change
- Learn about technology life cycles and how to evaluate emerging technologies
- Explore common problems of management and organizations-and their relationships to technology
- Understand the interrelationships of quality, productivity, and technology
- Network with other professionals

**Degrees Awarded**

M.S. in Technology Management with emphasis in Environmental Management; M.S. in Technology Management with emphasis in Information Technology; M.S. in Technology Management with emphasis in Manufacturing Systems; M.S. in Technology Management with emphasis in Transportation Systems and Technologies.

**Admission Requirements**

For regular admission, applicants to the program must complete the following *prior to* registering for the first semester of courses:

- 1) Have an undergraduate GPA of 2.5 or greater. There is no stipulation concerning the undergraduate major; however, the degree must be from an accredited college or university.
- 2) Satisfy at least one of the following:
  - Score at the mean or above on the Analytical Writing portion of the GRE (4.2 or greater) and achieve a composite score on the Verbal and Quantitative portions of the GRE greater than or equal to the sum of the two individual means (1070 or greater).
  - Score at the mean or above on the Analytical Writing portion of the GMAT, and achieve a composite score on the Verbal and Quantitative portions of the GMAT greater than or equal to the sum of the two individual means (526 or greater).
  - Have previously completed a master's degree from an accredited college or university.
  - Have 10 or more years of relevant professional work experience (documented in the written summary required in item 3, below).

International students must satisfy either the GRE or GMAT requirement.

- 3) Submit a written summary (2 typewritten pages maximum) of education and professional experiences, and career goals related to the TM program including the Area of Emphasis the applicant is interested in pursuing.
- 4) Complete an interview with the TM program director or designee, with part of the interview consisting of discussion of the written summary.

### **Degree Requirements**

Degree requirements consist of eight core courses (22 semester hours), four area-of-emphasis courses (12 semester hours), and a capstone project (3 semester hours), for a total of 37 semester hours. You must have the Technology Management advisor's approval to enroll in Technology Management degree program courses.

### **Core Courses**

TM 600 Program Introduction Seminar  
 TM 610 Technology and Innovation Management  
 TM 612 Economic and Financial Analysis for Technology Management  
 TM 615 Information Technology Strategies  
 TM 620 Technology Planning  
 TM 630 Quality and Productivity Methods  
 EM 620 Management of Technical Human Resources and Organizations  
 EM 660 Project Management

Completion of these eight core courses will qualify a participant for a certificate in technology management, if he/she elects not to complete the degree.

Each student pursuing the degree selects an area of emphasis, consisting of four courses. Currently the following emphases are available:

#### *Environmental Management:*

Environmental Regulations  
 Environmental Risk Assessment  
 Environmental Management Systems

One course selected from among:

Hazardous Waste Management, Environmental Site Assessment, or Geographic Information Systems

#### *Information Security:*

Information Security  
 Communication and Network Technologies  
 Computer Forensics and Incident Response

One additional 3 credit hour elective, chosen from TM or IS courses, with permission of the student's advisor

#### *Information Technology:*

Four approved courses from the following list:

Computing and Information Systems Technologies

*(continued)*

Communication and Network Technologies  
Multimedia Production and Electronic Information Dissemination  
Geographic Information Systems  
Health Informatics  
Software Engineering  
Information Security  
Computer Forensics  
Other courses may be taken with permission of the student's advisor.

*Manufacturing Systems:*

Applied Statistics  
Operations Management  
Applied Computer Integrated Manufacturing  
Modern Manufacturing Concepts

*Transportation Systems and Technologies:*

This area of emphasis is offered in cooperation with the Nick J. Rahall II Appalachian Transportation Institute.

Intelligent Transport Systems - Three courses, selected with Technology Management Advisor approval. Possible choices include: Traffic Engineering, Safety in Transportation, Human Factors in Accident Prevention, Traffic Safety Management, Urban and Regional Planning, Engineering Law, Operations Research I, Operations Research II, Transportation Systems, Geographic Information Systems. Some of these courses have prerequisites; students taking the courses must meet prerequisites.

The capstone technology management project (TM 699) will be work-related, oriented toward the area of emphasis, and jointly directed by a workplace supervisor and an academic advisor.

**INFORMATION SYSTEMS (IS)  
(See Information Technology and Engineering [CITE])**

**JOURNALISM**

The W. Page Pitt School of Journalism and Mass Communications offers a flexible program designed to accommodate persons with or without an undergraduate degree in journalism and mass communications or professional media experience. Career interests should include one or more of the following: advertising, broadcast journalism, online journalism, print journalism, public relations, radio-television, and journalism education. Admission requirements for the M.A.J. degree are as follows:

1. Applicants must score a minimum of 1200 on the three sections of the GRE. Because the new writing section to be introduced in the fall of 2002 is being scored differently from the other two sections, a point conversion system will be used to make the 0-6 score on the writing exam carry the same weight as the two sections that carry a maximum score of 800. For example, a 5.0 on the writing section will convert to 667, a 4.5 will convert to 600, and a 4.0 will convert to 533. Each half point on the 0-6 scale represents 33 1/3 points on the 800-point scale.
2. International student applicants must have a minimum score of 525 on the paper Test of English as a Foreign Language (TOEFL), 195 on the computer-based test or 71 on the Internet-based test.

During the first term of residence, students must plan with the graduate coordinator a detailed program of courses and discuss other requirements for the Master of Arts in Journalism degree. Students are responsible for learning and for meeting all requirements, guidelines and deadlines included in the Graduate Catalog. Students are required to complete EDF 517 (not required if student completed an acceptable statistics course before enrolling in the master's program); Journalism 601, Theory of Mass Communications, and Journalism 602, Mass Communications Research and Methodology. Some courses are not required of recent journalism and mass communications graduates who have taken the courses, but master's degree candidates who are not required to repeat these courses still must prepare themselves to pass the law, history, and ethics sections of the comprehensive examination. Otherwise, the other required courses are JMC 502, Law of Mass Communication; JMC 504, History of American Journalism & Mass Communications; and JMC 540, Mass Communications Ethics. International students are not required to take JMC 504.

The remainder of each student's program is determined in consultation with and approval from the graduate coordinator. Professional track students must complete a minimum of 36 graduate hours (plus any undergraduate courses deemed by the graduate coordinator to be necessary) and the comprehensive examination.

Thesis track students must complete a minimum of 27 graduate hours (plus any undergraduate courses deemed necessary by the graduate coordinator), a five-credit-hour thesis, and the comprehensive examination.

A minor consisting of a minimum of six hours in one subject area may be approved by the graduate coordinator. Students who enter the master's program without undergraduate preparation in journalism and mass communications and also without any relevant professional experience may be permitted by the graduate coordinator to take all of their coursework in journalism and mass communications.

A comprehensive written examination is required. The examination is not based exclusively on the specific courses completed but affords the student an opportunity to demonstrate comprehensive knowledge of the major subject. The five-part examination covers mass communications theory, research, law, ethics, and journalism and mass communications history. International students may substitute another area of concentration (approved by the graduate coordinator) for history.

### **LATIN (LAT)**

The Latin M.A. is a 33-hour degree that consists of twenty-one hours of advanced Latin on the 500- and 600-levels, six hours of related courses taught in English, and six thesis hours.

The program fills significant needs in West Virginia and surrounding states. It will allow current Latin teachers to expand their knowledge base and to strengthen their own programs. It will also contribute to the training new teachers of Latin on the middle and secondary school levels, and will prepare students to enter Ph.D. programs in Classical Philology. The M.A. in Latin is not designed to replace the M.A.T. in Latin currently offered by Marshall, nor does it guarantee licensing or certification to teach Latin in WV. It will, however, allow teachers certified in other disciplines to add Latin as a content area, and it will provide additional graduate hours for persons that hold professional teaching certification in Latin.

The Latin M.A. is a 33-hour degree that will consist of twenty-one hours of advanced Latin on the 500- and 600-levels, six hours of related courses taught in English, and six thesis hours. From the Latin courses, students will be required to take LAT 640 (Advanced Latin Prose Composition) and LAT 660 (Special Author in Latin Literature), and will select 15 hours from the other courses. From the courses taught in English, students will be required to take CL 620 (Theoretical Approaches to Latin Literature) and will select 3 hours from the other courses.

All students will be required to write an M.A. thesis of approximately 50-70 pages. Topics will be literary, and grounded in cultural contexts and literary critical techniques. They can focus on one author, or on themes or subjects found in more than one author. The research and writing of the thesis will extend over two semesters. In the first, students, working with an advisor, will develop and begin preliminary research on an author. In the second, they will continue their research and complete the actual writing. Students will be encouraged to present their research at national or regional conferences.

#### **Admissions and Performance Standards**

Admissions requirements for students will include:

- the completion of and submission of scores for the GRE
- an undergraduate degree in any field
- three letters of recommendation
- appropriate prerequisites for upper-level Latin courses, which minimally consist of the completion of at least six semesters of Latin, at least two of which were taken at the 300-level or above.

Applicants will also be required to pass a diagnostic Latin reading test, aimed at assessing the student's Latin reading ability, and identifying the students who may need more Latin work before progressing to the M.A.

#### **Program Requirements**

The M.A. degree will consist of twenty-one hours of advanced Latin on the 500- and 600-levels, of which LAT 640 and 660 are required, six hours of related courses taught in English, of which CL 620 is required, and six thesis hours.

Courses that may be used to fulfill the advanced Latin requirement are:

- LAT 503: Roman Comedy. A close reading in Latin of selected comedies of Plautus and Terence, along with a study of their literary antecedents.

*(continued)*

- LAT 504: Roman Elegy: Propertius and Tibullus. A close reading in Latin of the poetry of Propertius and Tibullus, along with a study of literary antecedents, cultural contexts and contemporary theories.
- LAT 505: Readings in Vergil. A close reading in Latin of the poetry of Vergil, along with a study of his literary antecedents, cultural contexts and contemporary theories.
- LAT 506: Horace: Odes and Epodes. A close reading in Latin of the poetry of Horace, along with a study of his literary antecedents, cultural contexts and contemporary theories.
- LAT 507: Livy's History of Rome. A close reading in Latin of the selections from the histories of Livy, along with a study of his literary antecedents and historiographical theory.
- LAT 509: Roman Satire: Horace, Martial and Juvenal. A close reading in Latin of the selections from satires of Horace, Juvenal and Martial.
- LAT 510: Tacitus. A close reading in Latin of the selections from the histories of Tacitus, along with a study of his literary antecedents and historiographical theory.
- LAT 580-583: Special Topics in Latin Literature.
- LAT 585-588: Independent Study.
- LAT 680-683: Special Topics in Latin Literature.
- AT 685-688: Independent Study.

Other required courses:

- LAT 640: Advanced Latin Prose Composition. A detailed study of Latin prose composition that focuses heavily on the more complex grammatical structures of the language.
- LAT 660-665: Special Author in Latin Literature. A detailed study of one Latin author with close attention to primary and secondary sources on that author.
- CL 620: Theoretical Approaches to Latin Literature.
- LAT 681: Thesis Hours.

Courses that may be used to fulfill the related courses requirement are:

- ART 508: Art of the Ancient World
- CL 535: Greek Civilization
- CL 536: Roman Civilization
- CL 560: Ancient Goddess Religions
- CL 570: Transformations of Myth
- CL 580-583: Special Topics in Greek and Roman Literature
- CL 585-588: Independent Study

### **Minors and Certificate Program**

The Department of Classics also offers minor fields of study in Latin and in Classics, which are appropriate for graduate programs in English and in history. In addition, the department offers a certificate program in Latin, providing a convenient way for individuals to add a consistent study of the Latin language and literature to their undergraduate and graduate credentials. The program requires 15 hours, 12 of which consist of 500-level Latin courses and 3 of which consist of CL 536, Roman Civilization. Currently, all credits can be used toward teacher certification and toward the M.A.T. at Marshall.

### **LEADERSHIP STUDIES (LS)**

The Master of Arts degree in Leadership Studies offers areas of emphasis in Educational Leadership, Justice Leadership, Higher Education, and Leadership Specialist. The Education Specialist program offers an Ed.S. in Education Leadership with an area of emphasis in Higher Education or PreK-12 Administration. The doctoral program offers an Ed.D. in Educational Leadership with areas of specialization in Public School Administration and Higher Education Administration.

Leadership Studies also offers professional licensure programs for School Principal, Social Services and Attendance, Supervisor of Instruction, and School Superintendent.

### **MASTER OF ARTS DEGREE**

#### **Admission Requirements**

Each candidate must meet all admission requirements as a degree student. Scores from the Graduate Record Examination, the Miller Analogies Test, or a previous master's degree from an accredited institution must be on file at the time of admission. Students must score at least a 40 (tested prior to October 2004) or at least a 392 (after October, 2004) on the Miller Analogies Test. Students who take the Graduate Record Examination must have a combined score of 800 (verbal and quantitative). A student seeking licensure as a school principal must hold a professional teaching licensure and have a minimum of one-year of teaching experience at the time of admission to the program. All degree students follow a planned program of student and must maintain a cumulative Grade Point Average (GPA) of 3.0.

**Education Leadership**

The Leadership Studies M.A. degree offers an area of emphasis in Education Leadership including Professional Administrative Licensure as a school principal. The Master of Arts degree in Leadership Studies is a portfolio-based program which requires a minimum of 39 semester hours. Courses may not be used if they are more than seven years old at the time of graduation. Students must complete all field-based experiences for courses that are transferred from other accredited institutions or programs. Leadership Studies 500 must be taken in the student's first semester. All persons seeking professional licensure as a school principal are required to pass the PRAXIS II (0410) Educational Leadership Administration and Supervision Test. West Virginia licensure also requires the Evaluation Leadership Institution offered by the Professional Development Center.

*Program of Studies*

LS 500, LS 510, LS 515, LS 520, LS 530, LS 550, LS 600, LS 606, LS 610, LS 612, LS 630, LS 675, LS 685	
TOTAL .....	39 hrs.

**Justice Leadership**

The Leadership Studies degree offers an area of emphasis in Justice Leadership.

*Degree Requirements*

All degree students follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0. Upon completion of required courses, master's degree students must participate in an externship experiences which synthesizes the content of required courses in their program of studies.

A Master of Arts degree in Leadership Studies with an area of emphasis in Justice Leadership requires a minimum of 36 semester hours. A core of 15 hours in Leadership Studies is required. A block of Counseling courses consisting of 9 hours relating to the student's needs is also required. An elective block of 12 hours is individualized to meet the career needs and goals of the student.

*Program of Studies*

LS 532, LS 625, LS 645, LS 615, LS 655 .....	15 hrs.
Select three from COUN 555, COUN 556, COUN 574, COUN 611, COUN 616, COUN 641 .....	9 hrs.
Select twelve hours of electives .....	12 hrs.
TOTAL .....	36 hrs.

**Leadership Specialist**

This program is ideally suited to the needs of students who wish to gain leadership skills and knowledge but do not wish to focus narrowly in one area.

*Program of Studies*

LS 532, LS 625, LS 645, LS 615 .....	12 hrs.
Select four from EDF 615, EDF 616, EDF 619, EDF 621 CIEC 582, COUN 555, COUN 574, COUN 602 .....	12 hrs.
LS 655 plus 9 hours of electives .....	12 hrs.
TOTAL .....	36 hrs.

**Higher Education**

This program is ideally suited for persons working in Student Personnel, Admissions, Registrar, Continuing Education, Recruitment, Enrollment Management, Academic Affairs, and Advising.

*Program of Studies*

EDF 621, LS 532, LS 615, LS 625, LS 616, LS 617, LS 618 LS 626, LS 646, LS 647, LS 680, LS 655	
TOTAL .....	36 hrs.

**EDUCATION SPECIALIST DEGREE (Ed.S.)**

**Degree Requirements**

Education Specialist degree (Ed.S.) students follow a planned program of study and must maintain a cumulative Grade Point Average (GPA) of 3.0. Two specializations are offered: Higher Education Administration and PreK-12 Administration.

*Program of Studies*

LS 703, LS 710, LS 720 or LS 725, LS 740 or LS 745,  
LS 760, EDF 625 or EDF 626, EDF 711 or EDF 618, CI 677 or HUM 604, EDF 679  
TOTAL ..... 30 hrs

**LICENSURE PROGRAMS**

**Leadership Studies**

**Principal Licensure and Graduate Certificate Program**

This program is designed to serve the needs of students who have completed a master’s degree in education. Students completing the program qualify for professional administrative licensure as a K-12 school principal in West Virginia, Ohio and Kentucky. Those seeking Professional Administrative Licensure as a school principal are required to pass the PRAXIS II (0410) Educational Leadership Administration and Supervision Test. West Virginia students are also required to take the Evaluation Leadership Institution offered by the Professional Development Center.

*Program of Studies*

LS 510, LS 600, LS 610, LS 612, LS 675, LS 660  
TOTAL ..... 18 hrs

**Social Services and Attendance Licensure and Graduate Certification Program**

This program is designed to provide a concentrated program leading to a license for Social Service and Attendance Personnel. The program is designed primarily for educational personnel who hold a valid license, or for social workers who hold at least a bachelor’s degree.

*Program of Studies*

COUN 670 or COUN 673, LS 693, LS 691, LS 692  
TOTAL ..... 12 hrs

**Supervisor of Instruction Licensure**

Students completing the Master of Arts Degree in Leadership Studies may take LS 661 to complete the licensure requirements for Supervisor of Instruction PreK-Adult.

**DOCTORAL PROGRAM (Ed.D.)**

This program is designed to offer eligible students in Southern West Virginia and neighboring states the opportunity to earn the Doctor of Education (Ed.D.) degree in Educational Leadership (public school administration or higher education administration) or in Curriculum and Instruction. The majority of coursework and other requirements will be met on the South Charleston campus, although some coursework is available on the Huntington campus. The mission of the doctoral program in education is to prepare practitioners to be reflective, ethical educators and researchers who contribute to the field of education. Program faculty are committed to creating a community of scholars through mentoring, engaging in collaborative research, and maintaining a focus on sound educational practices.

**Acceptance into the Program**

The decision to admit an applicant to doctoral work constitutes a significant commitment from the faculty of the department in the form of advising, teaching, chairing or serving on the student’s committee, preparing and evaluating examinations, and guiding the successful completion of the dissertation. The applicant should note that the decision to admit students to the doctoral program is a collective judgment of the program faculty and represents their determination of the likelihood of the candidate to succeed in all major phases of the degree program. These judgments take into account the applicant’s professional experiences, communication and thinking skills, and other relevant capabilities. Thus, an applicant is not automatically admitted on the basis of meeting only the minimum criteria. An applicant must have earned at least a master’s degree from an accredited institution in Educational Leadership, Curriculum and Instruction, or a related field. Applicants for Public School Administration must have an earned Principal’s Licensure. Details of all admission requirements and other pertinent information can be found at [www.marshall.edu/gsped/edd](http://www.marshall.edu/gsped/edd).

**MATHEMATICS (MTH)**

Course offerings in mathematics may be used to satisfy major requirements in three programs of the Graduate College, or to satisfy minor requirements in all programs.

The Master of Arts degree with a major in mathematics is offered by the Department of Mathematics. An area of emphasis in mathematics is offered in the Master of Arts (Secondary Education) degree. This degree program, offered by the Division of Teacher Education, is intended to meet the needs of public school teachers (1-12).

### **Master of Arts Degree (Mathematics)**

The Mathematics Department offers an M.A. in Mathematics which can prepare students for positions in industry, government agencies, or business, for further graduate study at the doctoral level, and for teaching positions at the secondary or two-year college level.

To be admitted to the program, students must complete the Graduate Record Exam (GRE) and have the score sent to Marshall University. GRE scores are considered when awarding graduate assistantships and during initial advising.

A minimum of 36 hours is required; if the student decides to write a thesis, the minimum is 32 hours, including not more than 6 hours for the thesis. A minor of 6 hours in any related area is permitted, subject to approval by the student's advisor and concurrence of the Math Department Chairperson. A final (oral) comprehensive exam is administered by a committee of 3-5 graduate faculty chosen by the student and his/her advisor.

The following are specific requirements for the program:

(1) at least 18 hours of 600 level courses offered by the Math Department; (2) at least 12 more hours of 500 or higher level courses offered by the Math Department, including MTH 528, 546, and 550 (or equivalents); (3) at least 6 more hours of 500 or higher level courses selected from another department at Marshall offering a graduate program or from the Math Department.

### **MODERN LANGUAGES**

At present the Department of Modern Languages does not offer a graduate major. Courses in French and Spanish are taken as minors by students in other departments, such as History, Journalism, and English. Courses in Modern Languages are also taken by teachers in service who wish to enhance their competence in language and literature.

In cooperation with the Division of Teacher Education, the Department of Modern Languages offers a program leading to the master's degree in secondary education and Spanish.

### **MUSIC (MUS)**

#### **Mission Statement**

The Department of Music will prepare students for careers in performance, education and other areas related to music, which will make a positive impact on their artistic discipline in schools and communities. Additionally, the Department will provide enriching experiences for those who will continue their musical activities as an avocation; and will cultivate an increased awareness of educational, cultural and aesthetic aspects of music within the region.

In fulfilling its mission, the department is committed to the following goals:

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

To be admitted to graduate programs in music a student must have received a bachelor's degree from an accredited institution with a major in music or the equivalent. A conference and audition with the Department of Music Chair and graduate music faculty members are required as part of the admission procedure. Conditions of admission to specific music programs are defined at this conference. An audition tape or CD may serve to satisfy audition aspects of admission.

Majors in all music programs are given an examination in basic skills and capacities in music prior to completion of twelve semester hours of graduate work and before being admitted to candidacy,

*(continued)*

including: basic piano proficiency and placement examinations in Music History (including Styles) and Music Theory. Applicants must take placement examinations prior to registering for graduate courses in music.

All graduate students, regardless of area of emphasis must complete both written and oral comprehensive examinations. Requirements for performance levels in applied music as well as more detailed information on requisites for individual options can be found in the Department of Music Handbook. The Department of Music offers the following areas of emphasis within the Master of Arts degree: Music Education, Applied Music Performance, Music History and Literature and Music Composition. Programs require 32 to 36 hours (Thesis or Non-thesis options) including 26 hours in major, cognate and electives areas of music. Normally, no more than 3-4 hours may be earned by a thesis. Thesis may take the form of a written report, graduate recital, or musical composition as determined by one's graduate committee. The Master of Arts in Teaching leading to K-12 certification in music is appropriate for students who have earned a bachelor's degree in music but are not certified in music education. Students wishing to pursue this degree should consult that section of this catalogue and should contact the College of Education and Human Services and the Department of Music for specific entrance and curricular requirements. All full time graduate students are required to participate in a music ensemble during the regular academic year as recommended by their major advisor. No graduate credit is given for this participation.

### **Master of Arts with Emphasis in Music Education – Thesis Option (32 credits)**

#### *Required Courses: (18 credits)*

- MUS 622, Styles and Analysis (3)
- MUS 610, History and Philosophy of Music Education (3)
- MUS 611, Music Psychology and Learning Theory (3)
- MUS 616, Curriculum and Administration (3)
- MUS 621, Music Research Methods (3)
- MUS 681, Thesis (3)

#### *Instrumental Specialization (8 credits)*

- MUS 615, Advanced Marching Band Techniques (2)
- MUS 620A, Instrumental Techniques and Materials (2)
- MUS 630A, Instrumental Conducting (2)
- MUS 630B, Instrumental Conducting (2)

#### *Choral Specialization (10 credits)*

- MUS 604D, Choral Literature (2)
- MUS 619A, Vocal Pedagogy (2)
- MUS 620B, Choral Techniques and Materials (2)
- MUS 629A, Choral Conducting (2)
- MUS 629B, Choral Conducting (2)

#### *Elementary Specialization (9 credits)*

- MUS 511, Introduction to Orff (3)
- MUS 670, Advanced Materials and Methods (3)
- MUS 675, Creative Activity for Children (3)

#### ***Electives (2-6 credits) to be selected from:***

- Graduate Music Courses
- 1-4 credits in Applied Music
- 1-2 credits in ensembles
- Graduate COEHS courses

### **Master of Arts with Emphasis in Music Education – Non-Thesis Option (36 credits)**

#### *Required Courses: (15 credits)*

- MUS 622, Styles and Analysis (3)
- MUS 610, History and Philosophy of Music Education (3)
- MUS 611, Music Psychology and Learning Theory (3)
- MUS 616, Curriculum and Administration (3)
- MUS 621, Music Research Methods (3)

#### *Specialization (12-20 credits)*

- MUS 511, Introduction to Orff (3)
- MUS 615, Advanced Marching Band Techniques (2)
- MUS 620A, Instrumental Techniques and Materials (2)

MUS 630A, Instrumental Conducting (2)  
MUS 630B, Instrumental Conducting (2)  
MUS 604D, Choral Literature (2)  
MUS 619A, Vocal Pedagogy (2)  
MUS 620B, Choral Techniques and Materials (2)  
MUS 629A, Choral Conducting (2)  
MUS 629B, Choral Conducting (2)  
MUS 670, Advanced Materials and Methods (3)  
MUS 675, Creative Activity for Children (3)

*Electives (1-9 credits)*

Graduate Music Courses  
1-4 credits in Applied Music  
1-2 credits in ensembles  
Graduate COEHS courses

**Master of Arts with Emphasis in Music History/Literature – Thesis Option (32 credits)**

*Required Courses (26 credits)*

MUS 622, Styles and Analysis (3)  
MUS 612, Projects and Problems in Music (2)  
MUS 621, Music Research Methods (3)  
MUS 640A, Music Theory (3)  
4 Music History period courses (12) to be selected from: MUS 510, MUS 526, MUS 654, MUS 655  
MUS 681, Thesis (3)

*Electives (6 credits)*

Graduate Music Courses  
1-4 credits in Applied Music  
1-2 credits in ensembles

\* Students without reading knowledge in German are encouraged to complete appropriate undergraduate courses.

**Master of Arts with Emphasis in Music History/Literature – Non-Thesis Option (36 credits)**

*Required Courses (23 credits)*

MUS 622, Styles and Analysis (3)  
MUS 612, Projects and Problems in Music (2)  
MUS 621, Music Research Methods (3)  
MUS 640A, Music Theory (3)  
4 Music History period courses (12) to be selected from: MUS 510, MUS 526, MUS 654, MUS 655

*Music Electives (7 credits)*

Graduate Music Courses  
1-4 credits in Applied Music  
1-2 credits in ensembles

*Non-Music Electives (6 credits)*

May be chosen in consultation with advisor from the following areas: Art, Classics, English, Humanities, Languages, Philosophy, Religious Studies, Sociology, Theater

\* Students without reading knowledge in German are encouraged to complete appropriate undergraduate courses.

**Master of Arts with Emphasis in Music Performance (32 credits)**

*Required Courses (25 credits)*

MUS 622, Styles and Analysis (3)  
MUS 621, Music Research Methods (3)  
MUS 640A, Music Theory (3)  
Applied Music (8)  
MUS 604, Literature Courses in Principal Applied Area (2)  
Graduate History Course (3)  
MUS 681, Thesis-Recital (3)

(continued)