General University Information

The University graduate bulletin covers a 24-month period, September 1, 2007 through August 31, 2009. Courses, majors, minors, programs, degrees and certificates in this catalog are subject to change without notice and may not be available in the future.

Click on a link to be taken to the entry below.

- Academic Year
  - 2009-2010 University Calendar
  - 2010-2011 University Calendar
- Mission Statement
- University Creed
- University Profile and History
- Accreditations

Academic Year

2009-2010 University Calendar

Fall Semester 2009

Sept. 5, Sat.  Freshmen Residence Hall Move-In Day
Sept. 6-7, Sun., Mon.  Upperclass Residence Hall Move-In Day
Sept. 5-8, Sat., Sun., Mon., Tues.  Freshmen Orientation
Sept. 9, Wed.  Classes Begin
Nov. 24, Tues. by 10 PM  Residence Halls Close
Nov. 25, Wed.  No Classes - University Open
Nov. 26-29 Thurs., Fri., Sat., Sun.  Thanksgiving Recess - University Closed
Nov. 30, Mon.  Classes Resume
Dec. 11, Fri.  Last Day of Classes
Dec. 12, 14-18, Sat., Mon., Tues., Wed., Thurs., Fri.  Final Examinations
Dec. 18, Fri. by 10 PM  Residence Halls Close
Dec. 19, Sat.  Close of Fall Semester
Dec. 20, Sun.  Commencement
## Winter Semester 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 5, Tues.</td>
<td>Move-In Day and Winter Orientation</td>
</tr>
<tr>
<td>Jan. 6, Wed.</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>Jan. 18, Mon.</td>
<td>MLK Jr. Day - No Classes; Campus-Wide Celebration</td>
</tr>
<tr>
<td>Feb. 26, Fri. by 10 PM</td>
<td>Residence Halls Close</td>
</tr>
<tr>
<td>March 1-March 7, Mon., Tues., Wed., Thurs., Fri., Sat., Sun.</td>
<td>Winter Recess - No Classes; Campus Open</td>
</tr>
<tr>
<td>March 8, Mon.</td>
<td>Classes Resume</td>
</tr>
<tr>
<td>April 2-4, Fri., Sat., Sun.</td>
<td>Spring Recess - University Closed; Library Open</td>
</tr>
<tr>
<td>April 16, Fri.</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>April 17, 19-23, Sat., Mon., Tues., Wed., Thurs., Fri., Sat.</td>
<td>Final Examinations</td>
</tr>
<tr>
<td>April 23, Fri. by 10 PM</td>
<td>Residence Halls Close</td>
</tr>
<tr>
<td>April 24, Sat.</td>
<td>Close of Winter Semester</td>
</tr>
<tr>
<td>April 25, Sun.</td>
<td>Commencement</td>
</tr>
<tr>
<td>April 26, Mon. by 8 PM</td>
<td>Grade Submission Deadline</td>
</tr>
</tbody>
</table>

## Spring Session 2010

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 2, Sun.</td>
<td>Move-In Day</td>
</tr>
<tr>
<td>May 3, Mon.</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>May 31, Mon.</td>
<td>Memorial Day - University Closed</td>
</tr>
<tr>
<td>June 14, Mon.</td>
<td>Last Day of Classes - 6 Week</td>
</tr>
<tr>
<td>June 23, Wed.</td>
<td>Last Day of Classes - 7th Week</td>
</tr>
<tr>
<td></td>
<td>Final Exams will be held during the last scheduled class session</td>
</tr>
<tr>
<td>June 23, Wed. by 10 PM</td>
<td>Residence Halls Close</td>
</tr>
<tr>
<td>June 25, Fri.</td>
<td>Close of Spring Semester</td>
</tr>
</tbody>
</table>
June 25, Fri. by 8 PM  Grade Submission Deadline

Summer Session 2010

June 27, Sun.  Move-In Day
June 28, Mon.  Classes Begin
July 4, Mon.  Independence Day - University Closed
Aug. 9, Mon.  Last Day of Classes - 6 Week
Aug. 18, Wed.  Last Day of Classes - 7. Week

Final Exams will be held during the last scheduled class session

Aug. 18, Wed. by 10 PM  Residence Halls Close
Aug. 19, Thurs.  Close of Summer Semester
Aug. 24, Tues. by 5 PM  Grade Submission Deadline

2010-2011 University Calendar

Fall Semester 2010

Sept. 4, Sat.  Freshmen Residence Hall Move-In Day
Sept. 5-6, Sun., Mon.  Upperclass Residence Hall Move-In Days
Sept. 4-7, Sat., Sun., Mon., Tues.  Freshmen Orientation
Sept. 8, Wed.  Classes Begin
Nov. 23, Tues. by 10 PM  Residence Halls Close
Nov. 24, Wed.  No Classes - University Open
Nov. 25-28, Thurs., Fri., Sat., Sun.  Thanksgiving Recess - University Closed
Nov. 29, Mon.  Classes Resume
Dec. 10, Fri.  Last Day of Classes
Dec. 11, 13-17, Sat., Mon., Tues., Wed., Thurs., Fri.  Final Examinations
Dec. 17, Fri. by 10 PM  Residence Halls Close
Dec. 18, Sat.                      Close of Fall Semester
Dec. 19, Sun.                      Commencement
Dec. 21, Tues. by 8 PM             Grade Submission Deadline

**Winter Semester 2011**

Jan. 3, Mon.                       University Closed
Jan. 4, Tues.                      Move-In Day and Winter Orientation
Jan. 5, Wed.                       Classes Begin
Jan. 17, Mon.                      MLK Jr. Day - No Classes; Campus-Wide Celebration
Feb. 25, Fri. by 10 PM             Residence Halls Close
Feb. 28-March 6, Mon., Tues., Wed., Thurs., Fri., Sat., Sun. Winter Recess - No Classes; Campus Open
March 7, Mon.                      Classes Resume
April 12, Tues.                    Last Day of Classes
April 16, Sat.                     Commencement
April 19, Tues. by 10 PM           Residence Halls Close
April 20, Wed.                     Close of Winter Semester
April 21, Thurs. by 8 PM           Grade Submission Deadline

**Spring Session 2011**

May 1, Sun.                        Move-In Day
May 2, Mon.                        Classes Begin
May 30, Mon.                       Memorial Day - University Closed
June 13, Mon.                      Last Day of Classes - 6 Week
June 21, Tues.                     Last Day of Classes - 7_ Week

Final Exams will be held during the last scheduled class session
Eastern Michigan University Mission

Eastern Michigan University is committed to excellence in teaching, the extension of knowledge through basic and applied research, and creative and artistic expression. Building on a proud tradition of national leadership in the preparation of teachers, we maximize educational opportunities and personal and professional growth for students from diverse backgrounds through an array of baccalaureate, master's and doctoral programs. We provide a student-focused learning environment that positively affects the lives of students and the community. We extend our commitment beyond the campus boundaries to the wider community through service initiatives and partnerships of mutual interest addressing local, regional, national and international opportunities and challenges.

Institutional Values

- Teaching and learning
- Excellence
- Human dignity and respect
- Diversity
- Scholarship and intellectual freedom
- Public engagement
- Leadership and participatory decision-making
- Integrity

Guiding Principles
• Accessibility
• Relevancy
• Responsiveness to change
• Flexibility
• Quality
• Collaboration
• Accountability
• Affordability

Eastern Michigan University Creed

We believe the Integrity of our work and the Respect we show for our fellow students, faculty, alumni and staff are an integral part of our ongoing Education. We believe that the Relationships we have and those we continue to develop will support us as we learn and grow together as a community.

University Profile and History

Eastern Michigan University is a comprehensive University whose roots date back to 1849, when the Michigan Legislature designated it as Michigan's first institution to educate teachers to serve the public schools. At that time the Detroit school system was only 10 years old and the transition from one-room school houses had just begun.

Graduate education was inaugurated in 1938, when the programs were conducted in cooperation with the University of Michigan. In 1953 Eastern gained approval to offer its own graduate programs.

During its first 100 years, Michigan State Normal School, as it was originally called, certified thousands of teachers and developed the broad-based academic curricula that prepared it for its evolution to University status in 1959. Within the new University, three colleges emerged: the College of Education, the College of Arts and Sciences, and the Office of Graduate Studies and Research. The University has expanded three more times: in 1964 with the College of Business; in 1975 with the College of Health and Human Services; and in 1980 with the College of Technology.

New colleges created a need for additional acreage. The University campus spread from its original 275 acres on the south side of the Huron River to encompass an additional 182 acres west of the campus where student residences, athletic facilities and the Convocation Center are located. Among the newest buildings are the Porter College of Education building (1999); the Marshall College of Health and Human Services building (2000); and the University House (2004).

Today's student body reflects the national trend of mature adults returning to college to continue their education and prepare for new careers in a changing society. Women compose approximately 65 percent of the student body. Most students are from the state of Michigan, but 45 states and 93 countries are also represented. In fall 2006, 23,000 undergraduate and 4,650 graduate students were enrolled at Eastern Michigan University.

EMU's perspective has also grown, not only in on-campus program development, but also in online courses offered through the Office of Extended Programs.

Eastern Michigan University is known worldwide for its educational contributions. Its 105,000 living graduates are scattered among many countries as well as coast-to-coast in the United States, both strengthening and supporting the foundation that is the University in Ypsilanti, Michigan.

Accreditations of Colleges and Departments

The University is fully accredited by the Higher Learning Commission, a subcommittee of the North Central Association of Colleges and Schools. In 2001 the University received an unqualified accreditation for a period of 10 years.

Eastern Michigan University also retains membership in these organizations: American Association of Colleges for Teacher Education; American Music Therapy Association; Association of Baccalaureate Social Work Program Directors; Council on Hotel, Restaurant and Institutional Education; Michigan Coalition of Schools/Departments
offering the MSW; Michigan Historic Preservation Network; National Association of Deans and Directors of Schools of Social Work; National Council for Preservation Education; National Trust for Historic Preservation; and The Pioneer America Society.

**Colleges and Departments**

**College of Arts and Sciences**

- Department of African American Studies
- Department of Art
- Department of Biology
- Department of Chemistry (accredited by the American Chemical Society)
- Department of Communication, Media and Theatre Arts
- Department of Computer Science
- Department of Economics
- Department of English Language and Literature
- Department of Geography and Geology (historic preservation accredited by the National Council for Preservation Education; urban and regional planning accredited by the Association of Collegiate Schools of Planning and by the Planning Accreditation Board; historic preservation affiliated with the Association for Preservation Technology, Michigan Historic Preservation Network, Pioneer America Society, Vernacular Architecture Forum and the National Trust for Historic Preservation)
- Department of History and Philosophy
- Department of Mathematics
- Department of Music and Dance (accredited by the National Association of Schools of Music and the American Music Therapy Association)
- Department of Physics and Astronomy
- Department of Political Science (public administration accredited by the National Association of Schools of Public Affairs and Administration)
- Department of Psychology (accredited by the Association for Behavior Analysis, American Psychological Association and Council of Applied Master's Programs in Psychology)
- Department of Sociology, Anthropology and Criminology
- Department of Women's and Gender Studies
- Department of World Languages

**College of Business**

(Accredited by the Association to Advance Collegiate Schools of Business)

- Department of Accounting and Finance
- Department of Computer Information Systems
- Department of Management
- Department of Marketing

**College of Education**

(All professional educator preparation programs of EMU are accredited by the National Council for the Accreditation of Teacher Education and approved by the Michigan Department of Education.)

- Department of Leadership and Counseling (community, college and school counseling programs accredited by the Council for Accreditation of Counseling and Related Educational Programs)
- Department of Special Education (speech-language pathology program accredited by the American Speech-Hearing Association; hearing impaired program accredited by the Council on Education for the Deaf)
• Department of Teacher Education (accredited by the National Council for the Accreditation of Teacher Education)

College of Health and Human Services

• School of Health Promotion and Human Performance (athletic training accredited by the Commission on Accreditation of Allied Health Education Programs and the Joint Review Committee on Education Planning and Athletic Training; health education accredited by the Michigan Department of Education/National Council for the Accreditation of Teacher Education; orthotics and prosthetics accredited by the National Commission on Orthotics and Prosthetics Education; physical education accredited by the National Association of Sport and Physical Education/National Council for the Accreditation of Teacher Education)
• School of Health Sciences (clinical laboratory sciences program accredited by the National Accreditation Agency for Clinical Laboratory Sciences; occupational therapy accredited by the Accreditation Council for Occupational Therapy Education; dietetics accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association)
• School of Nursing (accredited by the Commission on Collegiate Nursing Education)
• School of Social Work (accredited by the Council on Social Work Education)

College of Technology

• School of Engineering Technology (construction management accredited by the American Council for Construction Education; computer-aided design, manufacturing technology and polymers and coatings technology accredited by the National Association of Industrial Technology; interior design accredited by the Foundation for Interior Design Education and Research)
• School of Technology Studies (aviation management, communication technology and industrial distribution accredited by the National Association of Industrial Technology; hospitality management program accredited by the Council on Hotel, Restaurant and Institutional Education; legal assistant (paralegal studies) program accredited by the American Bar Association; network and information technology administration, marketing education, technology education - folio approved by the National Council for Accreditation of Teacher Education/International Technology Educational Association/Council on Technology Teacher Education)
• Military Science and Leadership
The Graduate School

Organization

The Graduate School administers graduate education at Eastern Michigan University. The Associate Vice President for Graduate Studies and Research provides leadership in the development of graduate education and oversees adherence to Graduate School policies and procedures.

The Graduate School reserves the right to modify curricula, course content, admission standards, degree requirements and/or tuition and fees without advance notice. The information in this catalog is not a binding contract between the Graduate School and the student.

A Graduate Council, composed of faculty, administrators and students, recommends policy and plans for the development of graduate education. A membership roster is available from the Graduate School.

Objectives

The Graduate School seeks to expand and improve the professional competence of its students by preparing them for more advanced academic work, providing expertise in research techniques in their chosen disciplines, and offering learning opportunities in convenient locations and individualized modes.

Faculty throughout the University are committed to meeting the learning needs of graduate students in a variety of programs and settings. Within the formal programs in the various academic disciplines, there is sufficient flexibility to accommodate the professional goals of each student.

Click on a link to be taken to the entry below.

- Degrees and Certificates Offered
  - Doctoral Degrees
  - Specialist's Degrees
  - Master's Degrees
  - Advanced Graduate Certificates
  - Graduate Certificates

Degrees and Certificates Offered

Doctoral Degrees

College of Arts and Sciences
Department of Psychology

  Clinical Psychology (Ph.D.)

College of Education
Department of Leadership and Counseling

  Educational Leadership (Ed.D.)
College of Technology
Technology (Ph.D)

Specialist's Degrees

College of Education
Department of Leadership and Counseling
   Educational Leadership
Department of Special Education
   Special Education

Master's Degrees

Graduate School
   Individualized Studies

Interdisciplinary Programs
   Bioinformatics
   Schools, Society and Violence
   Social Science
   Social Science and American Culture
   Integrated Marketing Communications

College of Arts and Sciences
Department of Art
   Art Education
   Fine Art (M.F.A.)
   Studio Art

Department of Biology
   Bioinformatics
   Biology
   Biology - General
   Ecology and Organismal Biology
   Ecosystem Biology
   Molecular/Cellular Biology
Department of Chemistry

Bioinformatics
Chemistry

Department of Communication, Media and Theatre Arts

Arts Administration
Communication
Drama/Theatre for the Young (M.A., M.F.A.)
Interpretation/Performance Studies
Theatre Arts

Department of Computer Science

Bioinformatics
Computer Science
Double M.A. Program with Fachhochschule, Karlsruhe, Germany
Language Technology

Department of Economics

Applied Economics
Economics
Health Economics
International Economics and Development
Trade and Development

Department of English Language and Literature

Children's Literature
Creative Writing
English Linguistics
Language Technology
Literature
Professional Writing
Technical Communication
Written Communication

Department of Geography and Geology

Earth Science Education
Geographic Information Systems
Historic Preservation - Conservation and Technology
Historic Preservation - General Studies
Historic Preservation - Heritage Interpretation, Tourism and Administration
Historic Preservation - Preservation Planning
Urban and Regional Planning

Department of History and Philosophy

History
Local History Program
Social Science
Social Science and American Culture

Department of Mathematics
Mathematics
  Computer Science
  Mathematics Education
  Statistics

Bioinformatics

Department of Music and Dance
Music
  Music Education

Department of Physics and Astronomy
General Science
  Physics
  Physics Education

Department of Political Science
Public Administration (M.P.A.)

Department of Psychology
Clinical Behavioral Psychology
  General Clinical Psychology
  General Experimental Psychology

Department of Sociology, Anthropology and Criminology
Criminology and Criminal Justice
  Schools, Society and Violence
Sociology
  Applied Research Specialty
    Family Specialty

Women's and Gender Studies Program
Women's Studies

World Languages
Foreign Language - French
Foreign Language - German
Foreign Language - Spanish
Language and International Trade
Spanish Bilingual-Bicultural Education
Teaching of English to Speakers of Other Languages (TESOL)
College of Business

Business Administration (General) (M.B.A.)

E-Business
Enterprise Business Intelligence
Entrepreneurship
Finance
Human Resource Management
International Business
Non-Profit Management
Supply Chain Management

Department of Accounting and Finance

Accounting (M.S.A.)
Accounting (B.A.-M.S.A.)

Department of Computer Information Systems

Computer Information Systems (M.S.I.S.)

Department of Management

Bioinformatics
Human Resources Management and Organizational Development
(M.S.-HR/OD)

College of Education

Department of Leadership and Counseling

College Counseling
Community Counseling
Educational Leadership

Higher Education/General Administration
Higher Education/Student Affairs
K-12 Administration

School Counseling

Department of Special Education

Endorsements

Cognitive Impairment
Emotional Impairment
Hearing Impairment
Physical Impairment and Other Health Impairment
Visual Impairment
General Special Education
Learning Disabilities
Speech-Language Pathology

Department of Teacher Education

Common Learnings in Curriculum
Curriculum and Instruction
Early Childhood Education
Educational Media and Technology
Educational Psychology

   Development and Personality
   Research and Evaluation

Elementary Education
Middle Level Education
Reading
Schools, Society and Violence
Secondary Education
Social Foundations

**College of Health and Human Services**

School of Health Sciences

   Clinical Research Administration
   Combined Bachelors/Master's Degree in Occupational Therapy
   Human Nutrition
   Human Nutrition - Coordinated Program in Dietetics
   Occupational Therapy (M.O.T., M.S.)

School of Health Promotion and Human Performance

   Exercise Physiology
   Health Education
   Physical Education

      Interdisciplinary Adapted Physical Education
      Pedagogy
      Sports Management

School of Nursing

   Nursing (M.S.N.)

School of Social Work

   Social Work (M.S.W.)

      Family and Children's Services
      Mental Health and Chemical Dependency
Services to the Aging

**College of Technology**
School of Engineering Technology

CAE
Construction Management
Engineering Management
Interior Design
Polymers and Coatings Technology
Quality Management

School of Technology Studies

Apparel, Textiles and Merchandising
Career, Technical and Workforce Education
Hotel and Restaurant Management
Technology Studies
Master of Business Education

**Advanced Graduate Certificates**

**College of Arts and Sciences**
Department of History

State and Local History

**College of Education**
Department of Leadership and Counseling

Post-Master's Certificate Program for School Counselor Licensure

**College of Health and Human Services**
School of Nursing

Post-Master's Adult Nurse Practitioner

**College of Technology**
School of Engineering Technology

Quality
Graduate Certificates

Interdisciplinary Program

Community Building
Language Technology
Management of Public Healthcare Systems
Nonprofit Management
Public Budget Management
Public Land Planning and Development Management
Public Personnel Management
Public Policy Analysis
Water Resources

College of Arts and Sciences

Department of African American Studies
African American Studies

Department of Biology
Bioinformatics
Water Resources

Department of Computer Science
Artificial Intelligence
Bioinformatics
Secondary Teacher Endorsement

Department of Economics
Public Budget Management
Public Personnel Management
Public Policy Analysis

Department of English Language and Literature
Teaching of Writing
Technical Communication

Department of Geography and Geology
Geographic Information Systems (GIS) for Educators
Geographic Information Systems (GIS) for Professionals
Historic Preservation
Public Land Planning and Development Management
Water Resources

Department of Mathematics
Bioinformatics

Department of Political Science

Community Building  
General Public Management  
Local Government Management  
Management of Public Healthcare Services  
Nonprofit Management  
Public Budget Management  
Public Land Planning and Development Management  
Public Personnel Management  
Public Policy Analysis

Department of Sociology, Anthropology, and Criminology

Community Building

Department of World Languages

Bilingual Endorsement Program for Certified Teachers  
Hispanic Language and Cultures  
German for Business Practices  
Japanese for Business Practices  
Japanese Language Teaching  
Teaching English as a Second Language

College of Business

Business Administration

Accounting - Financial and Operational Control  
Accounting - Taxation  
Computer Information Systems  
E-Business  
Entrepreneurship  
Finance  
Human Resource Management  
Marketing  
Management  
Organizational Development  
Supply Chain Management

Department of Accounting and Finance

Community Building  
Nonprofit Management  
Public Budget Management

Department of Computer Information Systems

Computer Information Systems
Department of Management

Bioinformatics
Community Building
Nonprofit Management
Public Personnel Management

Department of Marketing

Community Building
Nonprofit Management

College of Education
Department of Leadership and Counseling

Community College Leadership
Helping Interventions in a Multicultural Society

Department of Teacher Education

Educational Media and Technology

College of Health and Human Services
School of Health Promotion and Human Performance

Orthotics or Prosthetics
Provisional Certification in Physical Education

School of Health Sciences

Clinical Research Administration
Health Administration
Public Budget Management

School of Nursing

Quality Improvement in Health Care
Teaching in Health Care Systems

School of Social Work

Community Building
Gerontology
Gerontology - Specializing in Dementia
Nonprofit Management

College of Technology
The Graduate Experience

Click on a link to be taken to the entry below.

- Message from the Graduate School Dean
- Admission
  - Doctoral Degree
  - Specialist's Degree
  - Master's Degree
  - Master's Degree in Individualized Studies
  - Certificate Programs
  - Non-Degree Admission
  - Second Bachelor's Degree
  - Guest Students
  - International Applicants
- Academics
- Financial Assistance
- Financial Information
- Institute for the Study of Children, Families and Communities
- University Library
- Information and Communications Technology

Message from the Graduate School Dean

Graduate education is the rewarding process of exploring in-depth content that initially was presented to you during your baccalaureate program, or you may be exploring a new avenue of thought such as a master's in business or public administration. The purpose of graduate school is mastery: honing one's skills, researching and expanding knowledge about a specific field of study.

Think of education as an upside-down funnel. You start with a broad base by completing your bachelor's degree. A graduate certificate or master's degree narrows the funnel while refining content in a specialized fashion. Research becomes more focused. The funnel narrows again with an advanced-graduate certificate, specialist degree and doctoral-level work. You end knowing a lot about a very refined segment of your discipline. Breadth and depth of knowledge allows you to command improved employment opportunities and increased salary, but more importantly, joy in being a scholar who provides a vital contribution to your discipline. Contributions include pure or applied research, community engagement, or mastery of skills such as fine and performing arts. These are limited only by your imagination.

Most graduate students balance work, family life and community involvement with course work towards a degree completion. It's a juggling act. A team effort or network is needed. The EMU family of faculty and staff are prepared to mentor you through the journey. Let classmates be a part of the network as well. These friendships create a professional linkage that will remain resolute through your professional life. It saddens me to see students before and after class communicating on cell phone, blackberry, PDA, or laptop and not interacting with classmates who might hire them in the future or problem-solve a complicated project. Begin to create and nurture bonds toward a strong, long-term, support system.

The Graduate School staff is also a part of your network. We stand ready to help you throughout your educational journey. Feel free to contact us at 734.487.0042 or graduate_school@emich.edu. See our web site at www.gradschool.emich.edu. Sincerely,

Deb de Laski-Smith, Ph.D.
Dean of the Graduate School (Interim)

Admission
**General Procedures**

Complete and submit to the Office of Admissions all required documents and materials. Official transcripts sent to EMU directly from the institution are required for all institutions (graduate and undergraduate) attended. The following priority deadlines have been established for receipt of all application materials required for admission to a graduate program:

<table>
<thead>
<tr>
<th>Semester/Session</th>
<th>Domestic Students</th>
<th>International Students</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Feb. 1</td>
<td>Feb. 1</td>
</tr>
<tr>
<td>Winter</td>
<td>Sept. 1</td>
<td>Sept. 1</td>
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<tr>
<td>Spring</td>
<td>Feb. 1</td>
<td>Feb 1</td>
</tr>
<tr>
<td>Summer</td>
<td>Feb. 1</td>
<td>Feb 1</td>
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</tbody>
</table>

Applications received after the priority deadline will be processed in the order received. Admission can not be guaranteed if materials are submitted after May 15. Newly admitted students may not change programs two weeks prior to the start of the semester.

Some programs have deadlines different from those stated above. Prospective applicants are advised to verify the program deadline with their academic department or its web site.

Applicants whose native language is not English must demonstrate English language proficiency by submitting official test scores. Required tests and minimum scores are available from the Office of Admissions or its web site: www.emich.edu/admissions.

Individual departments may require higher scores than the Graduate School. Students who score below the minimum required by their department may be admitted conditionally and will be placed in ESL courses. These assigned ESL courses will be in addition to the student's departmental program of study. The ESL condition does not affect a student's enrollment or visa status.

**Doctoral Degree**

**Admission Requirements**

Requirements for admission to a doctoral degree program include the following:

- a. Submission of the completed Application for Graduate Admission, nonrefundable application fee and all official graduate and undergraduate transcripts to the Office of Admissions;
- b. The earned equivalent of a four-year, U.S. bachelor's degree or master's degree from an accredited college or university;
- c. A minimum cumulative graduate grade point average of 3.0 on a 4.0 scale in the master's degree or, for those departments admitting directly from the bachelor's degree, a minimum cumulative GPA of 2.75 on a 4.0 scale. Applicants who do not meet minimum admission requirements may be considered for conditional admission (see below). Some departments require higher minimum GPAs; see specific program requirements;
- d. Other departmental admission requirements, such as standardized test scores, letters of recommendation, personal statements, portfolios and interviews, as listed under the individual programs;
- e. A statement of financial responsibility for those who are or will be on an F-1 or J-1 visa; and
- f. Demonstration of English language proficiency, by applicants whose native language is not English (see International Applicants, below).

The application and all supporting documents become the property of Eastern Michigan University and will not be returned to the applicant. Applicants are not admitted to the Graduate School and/or an academic program until they have been notified in writing of acceptance by the Office of Admissions.
Transfer Credit

Post-baccalaureate degrees earned at Eastern Michigan University or another accredited institution may be applied to a student's program of study at the discretion of the student's doctoral program. With the exception of post-baccalaureate degrees, no more than 12 hours of transfer credit may normally be applied to a doctoral program. Exceptions to this policy require the approval of the department head and Graduate School.

Academic Probation and Dismissal

Students are placed on academic probation at the end of any semester in which their cumulative EMU grade point average in courses taken for graduate credit is below 3.0. Probationary students who do not return to good academic standing by the end of the next two enrollment periods are dismissed from the University and are so notified in writing.

Doctoral students may be dismissed from a program if program requirements are not met. Individual departments may specify additional grounds for dismissal. Students who are dismissed from a program while in good academic standing may still be eligible for another graduate program at EMU.

Time Limit for Completing Degree

Doctoral students must complete all requirements for the degree within seven years of the date of first enrollment. An extension of the seven-year time limit is permitted only upon recommendation of the student's dissertation committee and by the doctoral program director with the approval of the department head and Graduate School.

Residency

Although the Graduate School does not require a specific period of campus residency, it nevertheless encourages the efforts of graduate programs to create a cohesive intellectual community.

Some EMU graduate programs do enforce a residency requirement even if the Graduate School does not. Students should check with their advisers and program descriptions to determine specific expectations and requirements. These may vary from one program to the next and may include attendance at guest lectures or conferences, or even specific periods of enrollment on the main campus.

Faculty Participation in Doctoral Programs

Criteria and procedures for assigning faculty to teach doctoral-level courses, to chair or serve on dissertation committees, and to perform other tasks associated with doctoral programs are defined by the degree-offering department, with specific assignments formally reviewed at regular intervals by the department head with faculty input.

Course Requirements

Doctoral students are normally expected to complete the equivalent of 90 hours beyond the baccalaureate degree. Specific course requirements are established by the student's program adviser and are clearly stated on the student's program of study, which shall be filed in the Office of Records and Registration no later than the end of the student's first year of study (or after the student has completed 12 hours of course work).

Candidacy

The designation "doctoral candidate" refers to a student who has completed all designated course work and has passed a qualifying examination.
Qualifying Examination

Policies and procedures for the qualifying examination vary from one doctoral program to another (see department handbook). All such policies and procedures, and all subsequent changes made to them, must be recommended by the doctoral program director and approved by the department head and Graduate School.

Dissertation Committee

The task of the dissertation committee is to support the candidate throughout the dissertation process and to provide both formative and summative evaluation. If the dissertation proposal is a part of the qualifying exam, then the dissertation committee will be selected prior to the exam. If the exam is not related to the dissertation, the committee is selected after candidacy is reached. The student will select a committee chair by mutual agreement and on the basis of shared research interests. A committee chair must be tenured or tenure-track, full-time faculty with a completed doctorate. Together, the student and chair then select with their consent from three to five additional members (normally faculty from within the degree-granting department). Dissertation committees must have at least four members (including the chair) and no more than six members. At least half of the committee members must be from the student's home department. At least one member must be from outside the student's home department and will serve the committee as the Graduate School representative. One committee member may be from outside the pool of graduate faculty (e.g., faculty from other institutions, alumni, community members, corporate partners, internship supervisor, emeritus faculty). All committee members should be experts in at least some aspect of the student's dissertation topic area. The final committee roster, and any subsequent changes in committee membership, must be formally approved by the committee chair, department head and Graduate School. Substantive committee decisions and votes to approve the defense and the dissertation require a consensus of all members.

A manual with guidelines and requirements for the dissertation is available from the Graduate School's web site. Deadline dates for submission of the dissertation to the Graduate School are November 1 for December graduation, March 1 for April graduation, May 15 for June graduation and July 1 for August graduation.

Specialist's Degree

Requirements for admission to a specialist's degree program include the following:

a. Submission of the completed Application for Graduate Admission, nonrefundable application fee and all official graduate and undergraduate transcripts to the Office of Admissions;

b. The earned equivalent of a four-year, U.S. bachelor's degree (and master's degree, if applicable) from an accredited college or university;

c. A minimum cumulative graduate grade point average of 3.0 on a 4.0 scale in the master's degree or, for those departments admitting directly from the bachelor's degree, a minimum cumulative GPA of 2.75 on a 4.0 scale. Applicants who do not meet minimum admission requirements may be considered for conditional admission (see below). Some departments require higher minimum GPAs; see specific program requirements;

d. Other departmental admission requirements, such as standardized test scores, letters of recommendation, personal statements, portfolios and interviews, as listed under the individual programs;

e. A statement of financial responsibility for those who are or will be on an F-1 or J-1 visa; and

f. Demonstration of English language proficiency, by applicants whose native language is not English (see International Applicants, below).

The application and all supporting documents become the property of Eastern Michigan University and will not be returned to the applicant. Applicants are not admitted to the Graduate School and/or an academic program until they have been notified in writing of acceptance by the Office of Admissions.

Master's Degree
Requirements for admission to a master's degree program include the following:

a. Submission of the completed Application for Graduate Admission, nonrefundable application fee and all official undergraduate and graduate transcripts to the Office of Admissions;
b. The earned equivalent of a four-year U.S. bachelor's degree from an accredited college or university;
c. A minimum cumulative undergraduate grade point average of 2.5 on a 4.0 scale, or 2.75 in the last half of the undergraduate program. Applicants who do not meet minimum admission requirements may be considered for conditional admission (see below). Some departments require higher minimum GPAs; see specific program requirements;
d. Other departmental admission requirements, such as standardized test scores, letters of recommendation, personal statements, portfolios and interviews, as listed under the individual programs;
e. A statement of financial responsibility for those who are or will be on an F-1 or J-1 visa; and
f. Demonstration of English language proficiency, by applicants whose native language is not English (see International Applicants, below).

The application and all supporting documents become the property of Eastern Michigan University and will not be returned to the applicant. Applicants are not admitted to the Graduate School and/or an academic program until they have been notified in writing of acceptance by the Office of Admissions.

**Thesis**

A number of departments offer the writing of a thesis, either as an option or as a requirement. A manual with guidelines and requirements for the master's thesis is available from the Graduate School's web site. A maximum of six thesis hours may be used on a degree program. Deadlines for thesis submission to the Graduate School are November 15 for December graduation; March 15 for April graduation; June 1 for spring graduation; and July 15 for summer graduation.

**Types of Admission**

Degree admission requires that the applicant meet both Graduate School and departmental admission requirements as stated in the Graduate Catalog. Admission to graduate studies may be unconditional or conditional. There are four categories of conditional admission:

**Conditional Admission**

a. Condition 1: Curriculum Deficiencies. This conditional admission status applies to applicants who meet the Graduate School's admission requirements, but have curricular deficiencies or do not meet other departmental standards. Conditions to be met prior to gaining degree admission status are normally found on the Graduate Admissions Recommendation Form, sent to the student with the letter of admission.
b. Condition 2: Senior Status. This status applies to applicants completing an undergraduate degree at the time of application. It is valid for one semester only, and is removed upon submission of an official degree-posted transcript to the Office of Admissions.
c. Condition 3: English as a Second Language (ESL). ESL status applies to applicants who are non-native speakers of English and whose scores on required language-proficiency tests were below the required minimum. Students admitted with the ESL condition must successfully complete ESL courses as assigned.
d. Condition 4: Academic Deficiencies. This status is granted to degree program applicants who do not meet the minimum undergraduate GPA requirement of the Graduate School or the academic department, whichever is higher. Students must complete a minimum of nine to twelve graduate hours as specified by the department while maintaining good academic standing (3.0 GPA). These credits can be applied to a graduate degree program only upon the recommendation of the designated departmental adviser.

**Master's Degree in Individualized Studies**
This 36-hour program provides a flexible and innovative graduate-level experience for students whose educational or professional goals are not met by other graduate degree programs at Eastern Michigan University.

With the assistance of two or more faculty members, applicants propose a program of study made up of a structured sequence of courses designed to meet a specific set of goals and objectives. Courses are taken from three (3) subject areas, and a thesis or capstone project completes the program of study. Interested applicants must meet with the Graduate School.

Certificate Programs

The graduate certificate program is for students with a bachelor's degree from an accredited institution and an interest in specialized studies. The advanced graduate certificate is for students with graduate degrees, who wish to stay current in their field or gain expertise in a specialized area.

Requirements for admission to a graduate certificate or advanced graduate certificate program include the following:

a. Submission of the completed Application for Graduate Admission, non-refundable application fee and all official undergraduate and graduate transcripts to the Office of Admissions;
b. The earned equivalent of a four-year U.S. bachelor's degree from an accredited college or university;
c. A minimum cumulative undergraduate grade point average of 2.5 on a 4.0 scale, or 2.75 in the last half of the undergraduate program;
d. Other departmental admission requirements, such as standardized test scores, letters of recommendation, personal statements, portfolios and interviews, listed under the individual programs in this catalog;
e. A statement of financial responsibility for those who are or will be on an F-1 or J-1 visa; and
f. Demonstration of English language proficiency, by applicants whose native language is not English (see International Applicants, below).

The application and all supporting documents become the property of Eastern Michigan University and will not be returned to the applicant. Applicants are not admitted to the Graduate School and/or an academic program until they have been notified in writing of acceptance by the Office of Admissions.

Types of Admission

Certificate admission requires that the applicant meet both Graduate School and departmental admission requirements as stated in the Graduate Catalog. Admission to a graduate certificate or advanced graduate certificate program may be unconditional or conditional. There are four categories of conditional admission.

a. Condition 1: Curriculum deficiencies. This conditional admission status applies to applicants who meet the Graduate School's admission requirements, but have curricular deficiencies or do not meet other departmental standards. Conditions to be met prior to gaining certificate admission status are normally found on the Graduate Admissions Recommendation Form, sent to the student with the letter of admission.
b. Condition 2: Senior Status. This status applies to applicants completing an undergraduate degree at the time of application. It is valid for one semester only, and is removed upon submission of an official degree-posted transcript to the Office of Admissions.
c. Condition 3: English as a Second Language (ESL). ESL status applies to applicants who are non-native speakers of English and whose scores on required language-proficiency tests were below the required minimum. Students admitted with the ESL condition must successfully complete ESL courses as assigned.
d. Condition 4: Academic Deficiencies. This status is granted to certificate program applicants who do not meet the minimum undergraduate GPA requirement of the Graduate School or the academic department, whichever is higher. Students must complete a minimum of 6 graduate hours as specified by the department while maintaining a good academic standing (3.0 GPA). These credits can be applied to a graduate certificate program only upon the recommendation of the designated departmental adviser.

Certificate Requirements
Both graduate and advanced graduate certificate programs must consist of at least 12 graduate-level hours. One 400-level course may be used on the graduate certificate program. No 400-level courses may be used on the advanced graduate certificate. A minimum GPA of 3.0 must be achieved. In most cases, credits earned for certificate programs may apply to a graduate degree. All requirements for either certificate must be completed within three years of first enrollment.

Non-Degree Admission

Non-degree admission status applies to students who do not wish to pursue a degree program, or who are prevented from doing so by the Graduate School or their academic department. Non-degree status may be appropriate in the following situations:

a. Professional Teacher Certification. Certified teachers and other education professionals who do not intend to pursue a graduate-degree program enroll in this category. Applicants are seeking a second teaching certificate (see Teacher Certificate section of this catalog).*

b. Continuing Education. Applicants who enroll through Continuing Education are non-degree students. Students seeking a degree must formally apply and be admitted to a graduate program, and any courses taken through Continuing Education must be approved by the academic department and the Graduate School as noted on a program of study.

c. Graduate Non-degree: This status is intended for applicants with a minimum undergraduate GPA of 2.5 who wish to enroll in graduate or undergraduate courses for self-enrichment purposes or to obtain other professional qualifications such as teaching endorsements. This admission status does not lead to a graduate degree. Applicants must provide a bachelor's degree-posted transcript with at least 60 hours of course work and a 2.5 GPA. If 60 hours were not earned from the bachelor's-degree-granting institution, all undergraduate transcripts must be provided to the Office of Admissions.

d. Undergraduate Non-degree: An applicant whose undergraduate grade point average was 2.0 to 2.5 may be admitted as an undergraduate student to enroll in undergraduate courses for which course prerequisites have been met. An Undergraduate Admission Application must be completed and submitted with fee to the Office of Admissions. See the Undergraduate Catalog for further details.

Note:

*Applicants seeking their first (provisional) teaching certificate will apply as undergraduate post-baccalaureate teacher certificate students. See the EMU Undergraduate Catalog for details.

Second Bachelor's Degree

Second bachelor's degree students are admitted as undergraduate students using the undergraduate admissions form. See the Undergraduate Catalog for details.

Guest Students

The Michigan Intercollegiate Graduate Studies (MIGS) program offers graduate students at many Michigan institutions the opportunity to take advantage of graduate courses or experiences offered by Eastern Michigan University or other institutions in the state. Applicants complete the MIGS application form (available in the Graduate School, and on the Graduate School’s web site) and secure the approval of their adviser for the courses to be taken.

Currently enrolled students in a graduate program at other institutions who wish to take a graduate course at Eastern Michigan University for transfer to their home institution may do so by enrolling as non-degree students. Guest students in the College of Business must meet the standards for regular admission to business programs.

International Applicants
An applicant is considered an international student if either of the following conditions exists:

a. the applicant is not a U.S. citizen or permanent resident, or
b. the applicant currently has or will require a visa to live, work or study in the United States.

Priority deadlines for receipt of all application materials for graduate degree and certificate programs are:

<table>
<thead>
<tr>
<th>Semester/Session</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Feb. 15</td>
</tr>
<tr>
<td>Winter</td>
<td>Oct. 1</td>
</tr>
<tr>
<td>Spring</td>
<td>March 1</td>
</tr>
<tr>
<td>Summer</td>
<td>April 1</td>
</tr>
</tbody>
</table>

**English as a Second Language**

English as a Second Language (ESL) courses are taught in the Department of World Languages. These courses carry academic credit and are calculated in the total GPA.

Admission status is based on the first English proficiency score that students send to the University. If a later test results in a higher score, it also should be sent to the Admissions Office. All scores must arrive two weeks before the first day of the term or semester.

Students will be given ESL conditional admission if they are admitted to the University, but score below the minimum scores required below:

- Graduate TOEFL (CBT) 213
- Graduate TOEFL (PBT) 550
- Graduate TOEFL (iBT) 79
- Graduate MELAB 77
- Graduate IELTS 6.5
- Graduate TWE 4

*Some graduate programs require higher scores. Check with the program department or school.

Students under ESL conditional admission must take ESL classes in the first semester in which they are enrolled. Placement into ESL classes will be determined by the sub-scores achieved on the TOEFL, IELTS, or MELAB. (Contact the ESL Office for more information.)

Once placed into ESL courses students must complete each course with a grade of C or higher to advance to the next level. (Students who receive a grade of C- or lower for a course must repeat that course in the next semester in which they are enrolled.) Graduate students must continue ESL courses each semester until they finish the 500 level.

When students are at the 400 or 500 level of ESL, they may take other courses in the University at the same time.

When students have successfully completed the required ESL courses, their admission status is changed from conditional to regular.

Regular University academic probation and dismissal policies apply to students in ESL courses.

For information on the TOEFL or TWE, contact:

Educational Testing Service
P.O. Box 6155
Princeton, New Jersey 08541-6155
Phone: 609.771.7100
Web site: www.toefl.org
For information on the MELAB, contact:

English Language Institute
University of Michigan
3020 NUBS
Ann Arbor, Michigan 48109
Phone: 734.764.2416

Academics

Registration and Grading

Registration

Students may not attend classes unless they are properly registered and have paid appropriate fees.

Students who have not enrolled for eight consecutive semesters (two years) must complete an Enrollment Change form from the Office of Admissions before registering. For some programs, departmental evaluation for readmission will be required.

Students who do not enroll during the semester in which they are admitted must update their admission by submitting an Enrollment Change form to the Office of Admissions before registration is permitted.

Orientation

Orientations, scheduled at the beginning of new semesters, provide an overview of academic and campus life to new students. The graduate student and graduate assistant orientations cover such topics as Graduate School policies, ID cards, parking passes, e-mail accounts, financial aid, campus employment or assistantships, Career Services, public safety, library services, University computing, campus life, student health services, student affairs and international student information. They provide not only answers to your questions about the graduate experience, but also a place to get to know fellow students. Students are encouraged to attend.

For more information on orientations, visit the Graduate School web site at www.gradschool.emich.edu.

Program of Study

A program of study, which is the list of courses you will take to complete your degree, is required for students in all degree and certificate programs. Students who fail to obtain a program of study approved by their adviser assume full responsibility for their registrations and for satisfying University, Graduate School and departmental program requirements. An approved program of study must be on file in the Office of Records and Registration, 303 Pierce Hall, in order to meet graduation requirements. Students should schedule an appointment with their academic/graduate adviser to set up a program of study as soon as possible within their first semester.

Undergraduate 400-Level Courses for Graduate Credit

Some 400-level undergraduate courses are available for graduate credit. Students taking these courses are required to perform additional graduate-level work. Request forms are available in the Office of Records and Registration or the Graduate School and on their web sites. The form must be approved by the instructor and the student's adviser and then returned to the Graduate School at the beginning of the semester or term.
No more than nine hours of 400-level course work may be applied toward a graduate program. Such courses must appear on the student's program of study to be applied toward a degree. See the Graduate School web site for a list of pre-approved 400-level courses.

Independent study or special topics courses at the 400-level will not receive graduate credit. Students must use a 500-level independent study or special topics number.

**Enrollment in Graduate Courses by Advanced Undergraduates**

An undergraduate student may enroll in 500-level courses with instructor/department and Graduate School approval if A) the student has completed 85 or more hours with a minimum GPA of 2.5, or B) if the student is a member in good standing of the Honors College, has completed 70 or more hours, and has written permission from the Honors Director. No more than 15 graduate hours may be taken by an undergraduate student.

**Auditing Courses**

Graduate students who wish to audit a course must register for audit status and pay the same tuition and fees as for academic credit enrollment. See the class schedule book for audit deadlines.

**Pass/Fail Grading Option**

Graduate students may elect a pass/fail grading option when enrolling in undergraduate courses for enrichment that will not apply to a graduate program of study. Undergraduate curriculum deficiency requirements noted on a program of study may not be completed with a pass grade, unless approved by a graduate adviser. Students should enroll in the course, then complete the Pass/Fail Application Form for Graduate Students submitting it to the Graduate School before the end of the first week of the semester. The form may be obtained from the Office of Records and Registration, or from the Graduate School or its web site. Students complete all course work and the faculty member submits a letter grade at the end of the first week of the semester to the Office of Records and Registration. The grade is converted to pass/fail. A student may cancel the pass/fail grading option at any time before the last day of classes for the semester just prior to exams, and the letter grade submitted by the faculty will post to the student's transcript.

**Independent Study**

Independent study enables graduate students to pursue academic interests not addressed in conventional courses. A maximum of six hours of independent study may be used on a degree program. See the section on Course Limitations below.

**Course Limitations**

No more than six hours in one of the following categories may be used to satisfy graduate degree requirements:

- Special Topics: 590, 591, 592, 679, 680, 681
- Independent Study: 597, 598, 599, 697, 698, 699
- Seminar: 693, 694, 695, 696
- Workshop: 594, 595, 596, 682, 683, 684, 685
- Thesis/Final Project: 690, 691, 692, 790, 791, 792

A graduate program of study may not include more than 12 hours of special topics, independent study, seminar and workshop courses, in combination, and no more than nine hours of 400-level courses.

**Attendance**
Students who find it necessary to be absent from classes in order to observe major religious holidays may arrange with their instructors to make up missed work, including examinations. If satisfactory arrangements cannot be made with the instructor, students may appeal to the department head.

Expectations regarding class attendance should be included in the printed syllabus distributed by the instructor at the beginning of the semester.

**Withdrawal**

Graduate students are expected to follow University policy and procedures for withdrawal, both from individual classes and from the University. Nonattendance and/or nonpayment of tuition do not constitute withdrawal or absolve a student of academic or financial responsibility.

**Withdrawal from Individual Classes - Fall/Winter Semesters**

a. **First Eight Days.** Any change in the student's program occurring during this period may be processed through the registration system. Such changes are not recorded on the student's permanent record.

b. **Ninth Day Through Tenth Week.** All student-initiated withdrawals are accepted automatically and recorded as W. Withdrawals initiated during this period will not result in tuition adjustment or reimbursement.

c. **After the Tenth Week, Until the Beginning of the Final Exam Period.** Students must initiate a withdrawal request at the Graduate School. A W may be granted only if the student shows documentation for inability to complete the course (e.g., illness, family concerns, employment problems). Poor academic performance is not a valid reason for withdrawal and such requests will be denied.

Students considering withdrawal should consult with their instructor(s) and should not stop attending class before receiving official notification that their withdrawal has been approved. If a student stops attending class without officially withdrawing and does not take the final examination, University policy requires that the instructor assign a grade of E for the course. Students who believe they have received an unearned E grade and who wish to appeal must do so during the following semester; no later appeals will be heard.

International students holding F-1 or J-1 visas must also seek withdrawal approval from the Office of International Students. Students who are on financial aid or who hold scholarships, fellowships or graduate assistantships should consult the Graduate School before withdrawing from courses in order to fully understand the potential financial impact.

Policies governing the refund of tuition and fees are to be found in the Tuition and Fees section of this catalog. The class schedule book should be consulted for the calendar regulating withdrawals.

**Withdrawal from All Classes**

Students may withdraw from all classes (withdraw from the University) before the first day of exams and receive a grade of W for all courses. This transaction is handled by the Office of Records and Registration. Such withdrawal may necessitate the updating of a student's admission status, and students in their first semester must notify their academic department and the Office of Admissions before re-enrolling.

**Continuous Enrollment**

Once degree-requirement enrollment is complete, graduate students may elect continuous enrollment in either course number 639 for master's/specialist-level students or 767 for doctoral students. The one-credit enrollment will not apply toward degree completion, nor will there be assignments or a grade, but enrollment will assist in several ways, including:
a. enabling access to University services such as the library as thesis/dissertation or final projects are being completed;
b. delaying loan repayment while completing thesis, dissertation, or final project;
c. providing liability coverage during internship or field placement. Some graduate programs, such as the doctoral program in Educational Leadership, may require continuous enrollment. Students may repeat enrollment as often as needed.

Course Numbering System

- **400-500**: for advanced undergraduates and graduate students. Graduate students must obtain Graduate School approval before enrolling in 400-level courses. To earn graduate credit for a 400-level course, the student must do work at the graduate level. The 500-level courses are open to advanced undergraduates; see Enrollment in Graduate Courses by Advanced Undergraduates.
- **600**: for graduate students only.
- **700 and above**: for advanced-level graduate degree students.

Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Significance</th>
<th>Grade points per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Exceptionally high order</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td></td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td></td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Distinctly above the average</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td></td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Average</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td></td>
<td>1.7</td>
</tr>
<tr>
<td>E</td>
<td>Unsatisfactory (denoting failure)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

*Note: Graduate students who earn a D grade will have an E grade posted on their transcript. Grades below a C- are considered a failure.*

Student academic records are kept on permanent file in the Office of Records and Registration. Transcripts may be ordered through the Cashier's Office, or on-line at getmytranscript.com.

Credit/No Credit

The Graduate School awards credit/no credit only for theses, practicums, selected fieldwork, selected independent-study courses and special cases such as exhibitions in art. It is not a student's prerogative to elect a course for credit/no credit; only previously designated courses are available for such credit. To receive credit for a credit/no credit course, a student must perform in a manner equivalent to B work in the judgment of the faculty supervising the student's work.
Repeating Courses

Students who meet the prerequisites and all other conditions for enrollment may repeat courses. All grades earned will be retained on the student’s permanent record, with repeats indicated. Credit and grade point calculations for repeated courses are determined by the following rules:

Credit Earned:
1. Unless otherwise noted in the course description, credit for any repeated course (including all attempts at EMU and transfer credit granted) will apply only once toward all degree requirements.
2. The rules below do not apply to courses (such as Independent Studies) that can be taken for credit more than once. Multiple attempts in such courses are not considered repeats, and all grades received will be used in determining the student’s grade point average.
3. A student who earned a passing grade in a course or who has previously received transfer credit for the course will lose the credit if he or she subsequently retakes the course and receives an E. If a student receives an Incomplete in the final attempt of a repeated course, the most recent earlier grade is the grade of record until the course work is completed and the I is replaced by the grade earned.

Repeated Courses and Grade Point Average (GPA):
1. Courses that are dropped or from which a student has withdrawn are not counted as attempts for purposes of this policy.
2. If a student repeats a course up to two times (for a total of three attempts), only the last grade received will be used in determining the student’s grade point average. As stated above, all course attempts with repeats indicated will remain on the permanent record, even if not used to determine the grade point average.
3. There are no restrictions on the number of times that a student may repeat a course, however, the grades earned in the third and all subsequent attempts will be used in determining the student’s grade point average unless explicit permission to have previous grades for the course eliminated from the calculation is granted by the head of the department or director of the school in which the course is offered. The student must contact the department head or school director prior to the end of the semester in which the course is repeated to obtain this permission. Such permission is required for every attempt beyond the third.
4. There are no restrictions on the number of different courses that a student may repeat, however, if a student repeats more than ten different courses, grades for ALL attempts (from the first on) for the eleventh and all subsequent courses will be used in determining the student’s grade point average unless explicit permission to repeat the course is granted by the Academic Standards Committee in advance. The student must contact the Academic Advising Center to request permission.
5. Such permission is required for every attempt of every course beyond the tenth.
A student repeating a course may not elect a Pass/Fail grading option if the grade of record for the course is a letter grade.

Transfer Courses as Repeats:
1. If a student has credit for a course taken at EMU with a passing grade as the grade of record and subsequently transfers an equivalent course from another institution, the transfer credit will be treated as if it were another attempt at EMU, and the rules above will be applied. The grades received in previous attempts at EMU will not be used in determining the student’s grade point average provided the total number of attempts, including the transfer, does not exceed three (3) and this repeat does not exceed the limit of ten (10) repeated courses. (Note that students receive credit, but not grades for transfer courses, so no grade for the course would be used in determining the student’s grade point average in this case.)
2. If the grade of record is a passing grade, but the transfer course constitutes the fourth or later attempt, or if the student has already repeated ten or more courses, the grades received at EMU will be used in determining the student’s grade point average as outlined in the previous section unless explicit permission is granted by the EMU Registrar to exclude the EMU grades once the transfer credit has been posted.
3. Advance permission from the EMU Registrar is required for student who want to transfer credit for a course equivalent to a course that the student has taken at EMU and for which the grade of record is a failing grade.

Note: Second admission programs and graduate programs may calculate grade point averages according to their own internal rules; for example, many specify that grades received in all attempts be used in the calculation. This policy does not apply to those admissions processes.
I (Incomplete) Grades

An I grade may be awarded when illness or other unavoidable extenuating circumstances prevent completion of a course, provided that academic performance for the completed portion of the course (50% or more) merits a grade of B or better. The instructor will provide the student and the department head with a rationale for the I grade and will specify the work required to remove the incomplete.

Unless an extension is granted, an I grade must be removed within 12 months. The 12-month limit may be extended only under unusual circumstances upon the written recommendation of the instructor and with the approval of the Graduate School. The initiative for conversion of an I to a letter grade rests with the student. No extensions will be granted after three years, after which time the I becomes a permanent part of the student's academic record.

Incompletes received in thesis, dissertation or capstone courses are not governed by these regulations.

Grade Changes

When a letter grade (excluding I for incomplete grade or IP for in progress grade) is posted to a student's permanent record (either electronic or hard copy), it will be considered final unless an error was made in assigning the grade. Permitting a student to submit missing work or extra credit to improve a grade after the grade has been posted is not acceptable.

If an instructor error is identified, the instructor must file a grade change form, explaining the error. This form requires the approval of the department head. The appropriate dean will review and approve grade changes to ensure consistency with academic policies. All changes in letter grades (except from an I or IP grade) will require the signature of the dean of the college. The grade change will then be submitted to and processed by personnel in the Office of Records and Registration. One year after the end of the relevant semester all grade changes from I or IP will require the permission of the Graduate School.

It is the responsibility of the student to call the instructor's attention to a possible grading error in a timely manner, but not more than 12 months after the questionable grade is posted. Three years following the close of any term of enrollment, the student's transcript will be considered to be the final indisputable record of academic achievement. Specifically, at the end of three years, grades are considered final, and no changes will be made to transcripts (e.g., no term or individual withdrawals, no grade omissions, no recalculated grades based on mathematical or clerical error, no incomplete removals). This rule does not apply to master's specialist and doctoral field-based research, internships, thesis and dissertation hours.

Academic Load

Eight hours of graduate credit for the fall or winter semester and six hours for the spring or summer session is the standard full-time load. International students enrolled in less than eight credit hours fall and winter semesters must have a Reduced Load form processed through the Office of International Students. This may be used only once during a graduate program unless the student is a graduate assistant.

Graduate students may not enroll in more than 15 hours for fall or winter, or nine hours for spring or summer without prior permission from the Graduate School. Students should complete a petition co-signed by their faculty advisers. If students seeking professional teaching certificates or additional endorsements need to take more than the maximum allowable number of credit hours, they may do so by contacting the Office of Records and Registration, 303 Pierce Hall.

Students with fall and/or winter graduate assistantships must enroll in at least six graduate hours per semester. During spring and summer sessions, graduate assistants must enroll in at least one hour during the term (s) of employment.
By federal regulation, students must be enrolled in four hours per semester to be considered half-time. For Title IV programs, veterans' benefits, and loan deferments, the following requirements must be met:

**Fall and winter semesters**
- maximum load: 15 hours per semester
- full-time student: 8 hours per semester
- half-time student: 4 hours per semester

**Spring and summer sessions**
- maximum load: 9 hours per session
- full-time student: 4 hours per session
- half-time student: 2 hours per session

A doctoral student at the end of the program may submit to the Graduate School a Low Enrollment form to be classified as a full-time student with one credit of enrollment for loan deferment, liability coverage and access to library and campus services.

### Residency Requirement

Although the Graduate School does not require a specific period of campus residency, it nevertheless supports the efforts of graduate programs to create a cohesive intellectual community.

Note, however, that some EMU graduate programs do enforce a residency requirement even if the Graduate School does not. Students should check with their advisers and program descriptions to determine specific expectations and requirements. These may vary from one program to the next and may include attendance at guest lectures or conferences, or even specific periods of enrollment on the main campus.

### Time Limitations

Students have seven years to complete the requirements for the doctoral degree from the date of first enrollment at EMU (see the section on doctoral programs). Specialist's degree requirements must be completed within six years by those entering with master's degrees or eight years by those entering with bachelor's degrees. Master's degree requirements must be completed within six years of first enrollment. Graduate and advanced graduate certificate requirements must be completed within three years of first enrollment.

### Validation of Credit

Credit that is older than six years but less than 10 years old may be counted toward graduation requirements only if it is validated by the student's department/school. Students may validate up to nine hours of out-of-date credit for use on a degree program by taking an examination covering course content. Such validation is contingent on relevant program requirements, adviser recommendation and Graduate School approval. Forms to request such credit by examination are available in the Office of Records and Registration and the Graduate School or on its web site, and such requests must be approved by the instructor, department head and adviser before making payment of the fee in the Cashier's Office. Complete requirements are listed on the back of the form.

Files of enrolled students are retained for seven years from the time of last attendance. After that time, only the Eastern Michigan University transcript (permanent record card) is retained. Course work taken during and after winter 1995 is kept in electronic format only.
Transfer of Credit to Degree Programs

Applicable graduate course credit may be accepted from other accredited graduate institutions to be included on a graduate degree program. The allowable maximum for transfer credit to a specialist's degree is six hours; 12 hours toward a master's degree; and three hours for a graduate or advanced graduate certificate. For master of fine arts and doctoral programs, transfer credit will be determined by the department, subject to the approval of the department head and the Graduate School. Transfer credit must:

a. be applicable to the degree program;
b. have a grade of B or higher (grades of "pass," "satisfactory," or "credit" cannot be transferred);
c. not be out-of-date per the degree time limitation;
d. be recommended by the adviser and approved by the Graduate School;
e. be documented as graduate credit on an official graduate transcript from an accredited institution.

Some departments have a more restrictive transfer-credit policy; refer to program information in this catalog for details.

Up to six hours of appropriate credit from a previous master's degree may be applied to a new degree if the new degree is in a discipline different from the previous master's degree.

Transfer credit is evaluated prior to the graduation degree audit. Official transcripts for courses planned to be transferred to Eastern Michigan University should be on file in the Office of Records and Registration at least one month prior to the end of the semester in which the student plans to graduate. Such credits are recorded on the student's record at the time of approval.

Credit earned while on non-degree status does not automatically apply to a degree program. Acceptance depends upon admission to a degree program and the recommendation of the adviser. Courses are listed on the program of study. Students must complete a minimum of 10 hours after admission to the degree program from which they intend to graduate.

Transfer credit request forms are available in the Office of Records and Registration and the Graduate School or on its web site.

Academic Probation and Dismissal

Students are placed on academic probation at the end of any semester in which their cumulative EMU grade point average in courses taken for graduate credit is below 3.0. Students must complete six graduate hours at EMU before being subject to academic probation. Students are notified in writing each semester of their status, and enrollment is permitted only on a semester-by-semester basis until the probation is removed. Probationary students who do not return to good standing by the end of the next two enrollment periods (spring and summer sessions equal one enrollment period) are dismissed from the University and are so notified in writing.

Students whose cumulative honor points are 15 or more below those required for a B in all completed graduate-level courses are subject to dismissal at any time. For instance, a student with 20 completed graduate hours must have 60 honor points to maintain a B; if the student has less than 45 honor points, the student is subject to dismissal.

Dismissal Appeals Process

After dismissal, students may appeal to the Graduate School for readmission by submitting a letter to the dean's office. This letter should state the cause(s) of the student's academic problems, changes in the student's situation that may rectify those problems and a proposed plan of action to ensure success in graduate studies.

Upon receipt of the letter, the Graduate School will initiate the appeals process with the Academic Dismissal Appeals Board of the Graduate Council. A review by the board may not be considered for dismissed students whose GPA is less than 2.0 unless extreme circumstances can be documented.
The Graduate School will notify the chair of the Academic Dismissal Appeals Board and a hearing will be held within 30 days of receipt of the student's letter. The appeals hearing will adhere to the following guidelines:

a. A detailed record shall be kept of the hearing, preferably a tape recording;
b. The student is allowed an adviser who will be a member of the University community (faculty, full-time staff or student);
c. The hearing shall be open unless the student requests a closed hearing;
d. The student may call witnesses and Board members may question them;
e. All deliberations of the Board will be in executive session.

The Academic Dismissal Appeals Board consists of a chair and four members, who are selected by the Graduate School. All Board members are also members of the Graduate Council; two Board members are faculty; and two are student members of the Graduate Council. The chair does not have voting rights except in the case of a split decision.

An additional appeal will be considered only if new evidence is presented.

Final Project/Graduation

Final Project/Experience

Each graduate program has a different culminating or capstone experience required for graduation. Some require a thesis or dissertation; others require a special project or internship; while others require students to pass a final exam. Your graduate adviser will explain what you need to do to finish your program. See the Graduate School web site for the Thesis and Dissertation Manuals, all forms, and information about research and human subject approval.

Graduate Research Fair

Once nearing completion of a culminating or capstone experience, students are highly encouraged to share outcomes or findings with others on campus. The Graduate School and the Division of Academic Affairs annually sponsor a Graduate Research Fair in March to showcase student work. Many students use this forum to practice their oral or poster presentation skills before presenting at local, state or national conferences. It's very exciting to see the variety and breadth of work completed by EMU graduate students. Nomination forms to participate in the event are due to department heads in January. Students graduating in December are encouraged to return and share their research along with those who anticipate program completion in April, June or August.

Graduation Requirements

It is the student's responsibility to see that all requirements for graduation have been met. Candidates for graduation must submit an application, available in the Office of Records and Registration, the Graduate School or in the class schedule book, on or before the deadlines listed in the class schedule book each semester. Deadlines are generally within the first two weeks of the semester (earlier in spring/summer sessions). A non-refundable fee ($90) is due with the application and must be submitted to the Cashier's Office. Students who file for graduation but fail to complete their degree requirements in a timely manner, must notify the Office of Records and Registration in writing and submit a new graduation application for a subsequent semester (no additional fee is required).

Failure to apply for graduation will result in a delay in graduation date (receipt of the degree).

Students should expect to receive their degree-verification letter within three to four weeks after the close of the semester in which their degree is conferred. Diplomas and a transcript are mailed approximately eight to 10 weeks after the close of the semester in which the degree is conferred.
Students must maintain a 3.0 cumulative GPA in all graduate-level courses taken at EMU and in their program of study to remain in good academic standing and be eligible for graduation. Students do not need to be registered for classes during the semester of graduation.

**Commencement**

Once an application for graduation has been processed, the Office of Records and Registration will send information about commencement tickets, event logistics and details for ordering cap and gown. If course work is finished during the spring or summer terms, one's name will appear in the December commencement program and one may return to participate in the event. Students may request to participate in the April ceremony only if they have six or fewer hours to be completed in spring and summer (including any I grades). If permission is granted, the Office of Records and Registration will send commencement information. Names will not be in the program but students can walk across the stage and celebrate with family and friends.

Done with one graduate program, on to another one? Many EMU graduate students return to complete a second master's degree, a graduate certificate program, a specialist degree program or a doctoral program. Once a degree is conferred, the student number becomes inactive. A new admissions application, another fee, a new personal statement and any other admission materials the new program may require must be submitted to the Office of Admissions. Once an application has been reviewed by the new department and has been processed by the Office of Admissions, the old student number will be activated and course registration begins the cycle anew.

See the Graduate School web site for other helpful links at www.gradord.emich.edu/

**Financial Assistance**

Various types of financial aid are available to graduate students, including assistantships, fellowships, scholarships, work-study jobs, and loans. Some of these programs are administered by the Office of Financial Aid and others by the Graduate School.

**Graduate Assistantships**

Graduate assistantships are administered by the Graduate School. Assistantships are very competitive. They provide both financial support (tuition scholarships and stipend) and experiential learning for degree-admitted students. Graduate assistantships are normally available for up to two years (four enrollment periods), subject to the recommendation of an academic department and approval by the Graduate School. Graduate assistants (G.A.’s) must maintain a minimum 3.0 cumulative GPA and make satisfactory progress toward degree completion.

Three categories of assistantship are available: departmental (appointed by an academic department); underrepresented populations (approved by the Graduate School); and need-based work-study (approved by the Graduate School and the Office of Financial Aid). International students are eligible only for departmental G.A. positions.

To be eligible, applicants must:

a. Be fully or conditionally admitted (conditions 1, 2 or 3) to an academic degree program;
b. Have achieved a cumulative undergraduate GPA equal to the average of students already admitted to the college's degree programs (usually 3.0);
c. (U.S. citizens only) Complete the required financial aid forms, including the Free Application for Federal Student Aid (FAFSA), through the Office of Financial Aid. The FAFSA must be submitted by February 15 for consideration for the following fall semester. Receipt of a graduate assistantship will affect other financial aid awards.

Full-time graduate assistantships provide the following benefits:

a. Up to 18 credit hours of tuition per fiscal year. (Tuition benefits are prorated for part-time assistantships and for G.A.’s beginning their appointments after the start of the semester);
b. Payment of the registration, general University, technology and student union fees;

c. Parking permit for selected lots, library privileges and a 10 percent discount on purchases at the University bookstore;

d. Variable stipends based on department/school of hire; see Graduate School web site;

e. Valuable experiential learning opportunities.

Students should contact their academic department/school for information on G.A. positions. The Graduate School can provide more information on the G.A. program and provide copies of the policies governing the program. The information is also online.

Graduate assistantships for underrepresented populations are available to highly qualified students. The University encourages the application and enrollment of promising graduate students from underrepresented populations based on the academic discipline, and recognizes the need for well-trained scholars. For more information on this program, contact the Graduate School.

G.A. positions may be offered to international students holding F-1 or J-1 visas or other visa-type holders with valid work permits.

Applications are available in the Graduate School or on its web site, www.gradschool.emich.edu.

**University Fellowships**

Fellowships are a distinction of honor awarded to select graduate students on the basis of academic merit. The fellowship ranges from $500-$4,000. Fellows receiving $3,000 or more must enroll for at least eight graduate credits per semester; fellows receiving $2,000 or less must enroll for at least four graduate credits per semester.

To be considered for a graduate fellowship, new graduate students must present a minimum 3.6 cumulative undergraduate GPA; current graduate students must present a minimum 3.6 cumulative graduate GPA.

Graduate fellows (1) must hold degree admission to an academic program leading to a master's, master of fine arts, or specialist's degree; (2) must maintain a cumulative GPA of 3.6 while holding the fellowship; (3) may apply for one additional academic year if they continue to achieve a 3.6 cumulative graduate GPA.

Applications are available in the Graduate School or on its web site, www.gradschool.emich.edu.

**Need-Based Aid**

**Application**

To apply for need-based aid, graduate students must file the Free Application for Federal Student Aid (FAFSA). Based on information reported on the FAFSA, the federal government calculates the Expected Family Contribution (a number that equates to the student's ability to pay for college). The Expected Family Contribution is subtracted from EMU's cost of education. Need is the difference between the student's ability to pay and the cost of education.

The FAFSA should be filed in January of each year, prior to fall enrollment. Graduate students who are admitted to a graduate degree program will be notified of their eligibility for financial aid once EMU receives their application results from the FAFSA processor. Need-based aid is automatically awarded for fall and winter semesters. Students who need financial aid for spring and summer sessions must file an additional application, available in the Office of Financial Aid on its web site beginning February 15 each year.

To be eligible for federal and state need-based aid, a student must:
a. Be accepted by the Graduate School as either a regular or conditionally admitted student in a degree program. Students in this category may borrow up to the cost of their education (not to exceed $18,500) annually, in any combination of subsidized and unsubsidized Stafford Loans.

b. Maintain a cumulative graduate GPA of 3.0, complete 75 percent of classes attempted, and complete the graduate degree within 150 percent of the program’s published minimum credit hours.

Federal and State Aid

Federal and state work-study is awarded to eligible students who demonstrate need. Students may work up to 20 hours weekly on campus or at participating off-campus agencies during the fall and winter semesters. Hourly wages are set by the employer. Full-time work-study positions are also available for students who wish to earn during the spring and/or summer sessions, if the students will be enrolled in the following fall semester. A FAFSA for the upcoming year is required along with the full-time College Work Study application available in April each year.

Perkins Loans are need-based, long-term educational loans of up to $6,000 per year. Borrowers must begin repayment nine months after graduating, leaving school or dropping below half-time status. Students have 10 years to repay the loans. Repayment schedules depend on the amount borrowed. Repayment terms may be arranged with the Student Loan Accounting Office before leaving EMU.

Subsidized and unsubsidized Stafford Loans are student loans which carry low fixed interest rates. Graduate students may borrow the cost of education (not to exceed $20,500 annually). The maximum loan amount per semester depends on the cost of attendance and other financial aid. Students may be awarded less than the yearly maximum if they receive other financial assistance that is used to cover a portion of the cost of attendance.

The cumulative loan limit is $138,500 for graduate or professional students (only $65,500 of this amount may be in subsidized loans). Interest on the subsidized Stafford Loan does not accrue until the student graduates, leaves school or drops below half-time status. Interest on the unsubsidized Stafford Loan accrues from the time the loan is disbursed until it is paid in full. If the student allows the interest to accumulate, it will be capitalized - that is, the interest will be added to the principal amount of the loan and will increase the amount that needs to be repaid.

Work-Study Graduate Assistantships

A limited number of work-study graduate assistantships are funded through the College Work-Study Program. Interested students should contact the Graduate School. Students must submit G.A. application material as well as the FAFSA by February 15 for the following fall semester.

Other Aid

Student employment listings are maintained by the Student Employment Office. No demonstration of financial need is necessary. On-campus employment is limited to 29 hours per week.

Off-campus employment is also listed in the Student Employment Office, as well as with the Job Location and Development Office. Summer employment opportunities are available with campus, resort, recreational, business, industrial and governmental agencies. Listings for such positions begin during the winter semester in the Student Employment Office.

University Short-Term Loans are available for direct and indirect educational expenses from the Student Loan Accounting Office. An applicant must be enrolled at EMU and have a minimum 3.0 GPA at the time funds are released, have no past-due obligations to EMU, have repaid previous loans satisfactorily and demonstrate sufficient means to repay the loan by the due date.

Employer Tuition Reimbursement Plans are offered by many companies. Graduate students are encouraged to investigate their employer’s policy.
Awards and Scholarships

Guidelines and application forms for the following awards are available in the Graduate School or on its web site:

   a. The Graduate Deans' Award for Research Excellence is a $250 cash award made in the fall and winter semesters to reward excellence in ongoing or completed research projects.
   b. The Barton Scholarship is a one-time competitive award to EMU graduating seniors of up to $4,000 for graduate study at EMU or UM. Applications are considered for the fall and winter semesters.
   c. The Anton Brenner Scholarship is a one-time award of $500 to be applied to tuition and fees. Applications are considered by the Graduate School for each fall semester.
   d. The Undergraduate Symposium Fellowship is a one-time award of $1,000 to students who participated in the annual Eastern Michigan University Undergraduate Symposium and wish to continue their education as graduate students at EMU. Applications are submitted to the College of Arts and Sciences.

For additional information on scholarships available to graduate students or general financial aid information, contact the Office of Financial Aid or its web site: www.emich.edu/public/fin_aid/finhome.html.

Student Budgets - Full Time

In-state and Ohio annual student budgets

*Graduate/Specialist In-State (On/Off Campus)*

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and fees</td>
<td>$6,676</td>
</tr>
<tr>
<td>Room and board</td>
<td>$8,709</td>
</tr>
<tr>
<td>Books and supplies</td>
<td>$900</td>
</tr>
<tr>
<td>Transportation</td>
<td>$2,000</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$1,200</td>
</tr>
<tr>
<td>Registration fee</td>
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<tr>
<td>Loan fees</td>
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<td>$19,565</td>
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*Doctoral In-State (On/Off Campus)*

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and fees</td>
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</tr>
<tr>
<td>Room and board</td>
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<td>Books and supplies</td>
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<tr>
<td>Transportation</td>
<td>$2,000</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$1,200</td>
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<tr>
<td>Registration fee</td>
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<tr>
<td>Loan fees</td>
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<td>$20,493</td>
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</table>

Out-of-state annual student budgets

*Graduate/Specialist In-State (On/Off Campus)*
## Tuition and Fees

### Fees Subject to Revision

All University fees and assessments are subject to change by action of the Board of Regents. For the most recent tuition information, visit our web site at www.emich.edu/controller/sbs/tufee.htm.

### Application Fee

A one-time, non-refundable $30 online or $35 paper application fee is charged to each applicant to the Graduate School. Applications for additional degrees or certificates are subject to additional non-refundable fees.

### Graduation Fee

A non-refundable graduation fee of $95 is charged to each student applying for a degree or a graduate or advanced graduate certificate.

Graduation fees for teaching certificates are set by the undergraduate division and appear in the Undergraduate Catalog.

### Tuition Schedule

Tuition is assessed for all credit hours for which a student is registered. Undergraduate tuition is assessed for all 100- to 400-level courses. Graduate tuition is assessed for all 500- to 900-level courses.

## Doctoral In-State (On/Off Campus)

<table>
<thead>
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<th>Item</th>
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<tbody>
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<tr>
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<td>Books and supplies</td>
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<td>Transportation</td>
<td>$2,600</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$1,200</td>
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<td>Registration fee</td>
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<tr>
<td>Total</td>
<td>$27,669</td>
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</tbody>
</table>

*Note:*

*Tuition and fees are based on 16 credit hours.*

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**Tuition and fees**

<table>
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<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Room and board</td>
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<tr>
<td>Transportation</td>
<td>$2,600</td>
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<tr>
<td>Miscellaneous</td>
<td>$1,200</td>
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<tr>
<td>Registration fee</td>
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<td>Loan fees</td>
<td>$0</td>
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<td>Total</td>
<td>$26,133</td>
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Tuition rates per credit hour are subject to review at each June Board of Regents meeting and may increase.

2006-2007 Michigan and Ohio resident rates, per credit hour:

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate courses, up to 499</td>
<td>$194.50</td>
</tr>
<tr>
<td>Graduate courses, lower level (500-699)</td>
<td>$340.50</td>
</tr>
<tr>
<td>Doctoral assessment, upper level (700-999)</td>
<td>$391.75</td>
</tr>
</tbody>
</table>

2006-2007 non-resident rates, per credit hour:

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate courses, up to 499</td>
<td>$573.00</td>
</tr>
<tr>
<td>Graduate courses, lower level (500-699)</td>
<td>$671.00</td>
</tr>
<tr>
<td>Doctoral assessment, upper level (700-999)</td>
<td>$756.35</td>
</tr>
</tbody>
</table>

A non-refundable registration fee of $43 per semester, a general fee of $22.60 per credit hour, a student union fee of $3.25 and a technology fee of $10.75 per credit hour are also assessed. Additional information is available at www.emich.edu. Graduate classes in some programs have an additional per-credit-hour program fee.

Decrease in Academic Load:

For the fall and winter semester, a 100 percent tuition credit, less the $12 program adjustment fee, will be processed for those students who decrease their academic load through the eighth day of classes. For the spring and summer sessions, a 100 percent credit adjustment, less the $12 program adjustment fee, will be made during the first four days of classes. Actual dates are printed in the class schedule for each semester and session and also online.

No credit adjustments will be made after the above stipulated dates. If a student feels that individual circumstances warrant exceptions from the credit adjustment or the University withdrawal adjustment policy:

1. Obtain a Tuition Appeal Application from the Students Business Services Office in 203 Pierce Hall. Complete and return the application along with an explanation of the extraordinary circumstances involved with supporting documentation of those circumstances. An approval or denial will be issued in writing by return mail.
2. Appeal in writing to the director of Student Business Services at the address above. Be sure to include any additional pertinent information with your written appeal.

Official Registration Day

For purposes of payment of registration fees and tuition assessment, the official registration day for each student is the day the student completes initial registration for the semester or session.

Qualification for Michigan Residence

To be eligible for the resident tuition rate, students must demonstrate that they are already Michigan/Ohio residents or are coming to the University for reasons primarily other than to attend the University. The following policies will be used to determine residency:

1. Minors: The residence of a student under 18 years of age follows that of the student’s parents or legal guardians. If the parents or legal guardians meet the criteria under f below, Criteria for Determining Intent, the student is considered a resident for tuition purposes.
b. **Non-dependent Students:** A student 18 years of age or older must meet the criteria in f below, Criteria for Determining Intent.

c. **Spouse of Eligible Person:** The residence of a student otherwise classified as a nonresident for tuition purposes will follow that of the student's spouse, if the spouse is eligible for classification as a resident for tuition purposes. This applies only to U.S. citizens or to aliens admitted for permanent residence in the United States who have obtained a permanent or diplomatic visa.

d. **Aliens:** A noncitizen will be eligible for classification as a resident for tuition purposes only if the student is lawfully admitted for permanent residence in the United States, has received a permanent or diplomatic visa, and meets the criteria in f below, Criteria for Determining Intent. The University provides two installment payment plans for fall and winter.

e. **Migrants:** Michigan migrants will be classified as residents for tuition purposes if they or their parents or legal guardians were employed in Michigan for at least two months during each of three of the preceding five years. Verification of employment as migrant workers should be secured from the Michigan Farm Labor and Rural Manpower Services Office. Other appropriate evidence also may be used by migrant workers to establish their status.

f. **Criteria for Determining Intent:** Students from outside the state and to whom the above policies are not applicable shall be considered nonresident for tuition purposes unless it can be determined that their primary purpose in coming to Michigan is to establish residency in the state, rather than to attend a university. For the purpose of determining intent in such cases, the following criteria are considered, no one of which should be considered controlling:

1. High school attendance in Michigan
2. Reliance upon Michigan sources for financial support
3. Residence in Michigan of family, legal guardian, or other relatives or persons legally responsible for the student
4. Former residence in Michigan and maintenance of significant connections therein while absent
5. Continuous presence in Michigan during periods when not enrolled as a student
6. Long-term military commitments in Michigan
7. Traditional considerations such as voter registration, ownership of real estate, source of driver and vehicle licenses, taxpayer status, and self-supporting or dependency on others, whether residents of Michigan or elsewhere

g. **Determination of Residence:** Residence will be determined at the time of initial admission to the University. Questions of residency status should be raised with the Student Accounting Office. If circumstances change to the extent that a student is no longer considered a resident for tuition purposes, the student will be classified as a nonresident after six months.

*Note: It is the responsibility of students, prior to registration, to raise questions in the Student Business Services Office regarding their right to be registered as resident students. The administration is authorized to establish procedures and delegate authority for determining the domicile of students for tuition purposes and to make exceptions within the spirit of this policy.*

**Tuition Reciprocity Agreement with Ohio**

Ohio residents may attend Eastern Michigan University at Michigan resident tuition rates, and Michigan residents of Monroe County may attend the University of Toledo at Ohio resident tuition rates. This reciprocity agreement by the Michigan State Board of Education and the Ohio Board of Regents became effective fall 1978 and is periodically re-evaluated.

**Payment of Tuition**

1. Log into your my.emich.edu e-mail account, or your forwarded my.emich mail. (If you use a forwarded e-mail address, keep it current.) Each month, you will receive an e-mail notifying you that your bill has been posted. It is the student's responsibility to check e-mail monthly.
2. You will need your E-ID and Personal Identification Number (PIN) to access Ebill, EPay and Payment Plans. At my.emich.edu on the bottom of the first page are instructions to access your E-ID and PIN.
3. View your bill and click on Current Account Activity to view transactions that are posted after the bill is issued. You can also go to your profile and add an alternate e-mail address.

4. Pay your bill with your checking account routing number (ACH), Master Card, American Express or Discover Card via PayPath. You may pay your bill in person or by mail at 201 Pierce Hall, Ypsilanti MI, 48197. Please write your E-ID on your check payment.

5. Allow access to parents or other parties by setting them up as authorized users. All you need is their e-mail address. This will allow them to access your bill, pay your bill, and set up a payment plan. An e-mail is automatically sent to the authorized user with sign-in details. The authorized user will create a new password once in the site.

6. The University offers a payment plan to help manage the cost of education. The cost of the plan is $29 and is added to your installment payments. The plan automatically adjusts as payments or charges are added to your account. To enroll, simply log into the Ebill site at: https://ebill.emich.edu. Click on Payment Plan, at the bottom of the Ebill site, and follow the four simple steps to enroll in the plan. We hope you enjoy this added convenience and we welcome any questions you may have.

7. If you have any questions about the system, please send your e-mail to ebill@emich.edu.

EMU's optional installment payment plan is offered in the fall and winter semester only and is applicable to tuition and room and board. A minimum of 50 percent must be paid initially and the remainder by the eighth week of the semester. EMU's optional installment payment plan is offered in the fall and winter semesters only and is applicable to tuition and room and board. A minimum of 50 percent must be paid initially and the remainder by the eighth week of the semester. An installment service fee of $29 is assessed with the first installment billing and a late payment fee of $36 per month is assessed on past-due balances.

If a student's account is past due for a current semester, enrollment, University housing and other University services (such as the release of transcripts) are subject to suspension until the account is brought into current status. Payment of assessments for a current semester does not relieve the student of obligation for payment of any balance from a prior semester.

**Late Registration Fee**

A late registration fee of $120 is charged to those students who do not complete registration before the official first day of classes each semester. Checks returned by a bank constitute late registration, resulting in a fee charge. Students enrolling for a course after the mid-point of the semester will be charged an additional $120 late fee.

**Cancellation of Registration**

Registered students who decide before classes begin not to return to EMU must complete a Cancellation of Registration form or send a letter to the Office of Records and Registration. Any housing contracts must also be canceled in the Housing Office in order to cancel tuition and room/board assessments.

**Withdrawal from the University**

Complete withdrawal from the University must be requested in writing through the Office of Records and Registration. Any tuition/fee adjustment responding to a written request is based on the postmark date of the request. The policy for withdrawal and tuition adjustment from the University is:

- **First Eight Days (four days for spring/summer):** Students receive a 100 percent tuition credit adjustment, less a $43 non-refundable registration fee. No grades will be posted.
- **Ninth through 19th Day (fifth through 10th day for spring/summer):** Students receive a 50 percent tuition credit adjustment, less a $43 non-refundable registration fee. Grades of W will be posted.
- **Twentieth through 38th Day (11th through 19th day for spring/summer):** Students receive a 25 percent tuition credit adjustment, less a $43 non-refundable registration fee. Grades of W will be posted.
d. **Thirty-ninth Day (20th day for spring/summer) through the First Day of Final Examinations**: Students receive no tuition credit adjustment. Grades of W will be posted.

e. **After the First Day of the Final Examination Period**: No withdrawal will take place.

### Tuition Credit for Reduced Load

A tuition credit adjustment of 100 percent minus the $43 non-refundable registration fee will be made for students who decrease their academic load prior to the eighth business day of the fall/winter semesters (fourth day for spring/summer). These dates are published each semester online, and in the class schedule book. No credit adjustments will be made after the above dates.

### Suspended or Dismissed Students

A student who is suspended or dismissed from the University during a semester will receive a tuition credit adjustment based on the withdrawal schedule above. Any tuition/fee adjustment will be based on the date the appropriate University administrator notified the student of suspension or dismissal. The date used for housing and food service adjustments will be the day service to the student is terminated.

### Applied Music Fee

Students accepted for private music lessons will be charged an applied music fee. Consult the Music and Dance Department for current rates. Fees are not refundable after the first lesson.

### Responsibility for Financial Obligations

A student is eligible for registration or graduation only if all financial obligations to the University have been met. Transcripts and diplomas will be withheld and the student will be ineligible for further registration until all obligations have been fulfilled.

### Institute for the Study of Children, Families and Communities

David Clifford, director  
Address: 203 Boone Hall  
Phone: 734.487.0372  
Fax: 734.487.0284  
E-mail: david.clifford@emich.edu  
Web site: www.iscfc.emich.edu

The Institute for the Study of Children, Families and Communities is an interdisciplinary applied research unit. It is dedicated to enhancing the quality of life in society. Its focus upon human capital development and community growth embraces, in addition to research, demonstration projects, technical assistance, consultation, training, assessment and policy analysis and advocacy. The institute executes its mission through its three centers.

The Center for Applied Research (CAR) provides a full range of research services including needs assessments, asset mapping, survey research, program monitoring and evaluation, data collection and analysis, and policy impact analysis. The CAR includes a state-of-the-art Computer Assisted Telephone Interviewing facility, the CATI Lab. Director: Peggy Wiencek, M.S., e-mail: peggy.wiencek@emich.edu

The Center for Child and Family Programs (CCFP) focuses on vulnerable children, families and marginalized youth. The CCFP conducts applied research and program evaluation, develops training curricula, provides technical assistance and develops policy recommendations at the local, state and national levels. Director: Valerie Polakow, Ph.D., e-mail: valerie.polakow@emich.edu
The Center for Community Building and Civic Engagement (CCBCE), newly funded through a U.S. Department of Justice grant, operationally extends EMU's mission as a metropolitan University into the greater community. Through projects such as the HUD Community Outreach Partnership Center, it promotes community capacity building, youth violence reduction and a range of community-University collaborations.

Director: Elvia R. Krajewski-Jaime, Ph.D., e-mail: ekrajewski@emich.edu

University Library

Bruce T. Halle Library

Rachel J. Cheng, University librarian
Address: 955 West Circle Drive
Phone: 734.487.0020 ext. 2200
Fax: 734.484.1151
Web site: www.emich.edu/halle

The Bruce T. Halle Library supports the academic mission of the University through its state-of-the-art services, collections, technologies, facilities and equipment.

The Library is a vital component of the University's educational mission. It houses more than one million items including books, journal subscriptions, microforms, audio visual materials and U.S. Government Documents. The library has a rapidly growing collection of state-of-the-art electronic indexes and full-text ejournals and ebooks. The library contains special collections of faculty publications, children's literature, maps, African-American history and also houses the University Archives. These extensive collections are focused to provide strong support for the instructional programs of the University. More information about the library's collections, hours, and services is available at www.emich.edu/halle.

In addition to its collections, Halle Library provides the campus with venues where people can gather to share ideas and learn including meeting/classrooms, computer labs, a 90-seat auditorium, group study rooms, a TV studio, and the ParadoxCafé. The Library provides hundreds of public access computers. A unique feature of the Library is the Automated Retrieval Collection (ARC). The ARC's massive robot cranes locate and move the hundreds of bins that hold more than a half-million books, videos and other items from the Library's collection. Materials from the ARC can be in your hands within ten minutes.

Materials, including reserved reading materials assigned for use in course work, are checked-in and out on the main floor at the Circulation Desk. The Information Desk is located in the center of the first floor atrium and is the place where all library users may get assistance in using the collections and locating sources. For off-campus class students, the library offers reference assistance and instruction, access to research tools and access to materials. For more information, visit www.emich.edu/halle/offcampusclasses.

Collections on the main floor include the references, legal reference collections and maps. The second floor contains the journals, newspapers, government documents and children's literature collections and provides space for collaborative study. The third floor contains the circulating book collection and is the Quiet Study Floor.

Librarians offer a comprehensive range of orientation, reference and instructional services and are available to consult with users concerning their information needs, and to assist in developing search strategies and accessing resources. Subject-specialist librarians assist teaching faculty by working with them to design tours and instructional sessions for their classes. Appointments can be scheduled with individual librarians through the Information Services Office (734.487.0020, ext. 2100).

The Academic Projects Center (Halle Room 104), is a new venture offering one-to-one writing, research, and technology assistance for all EMU students. The APC is a collaboration between the University Library, Academic
Technology and Computing Services, the University Writing Center, and the Writing Across the Curriculum and First Year Writing Programs. The APC offers point-of-need help with research, writing, and technology to students working on research papers and other academic projects. University Writing Center consultants, Halle Librarians, and technologists work together in the center to provide project-oriented support.

**Information and Communications Technology**

To learn more about the technology services provided for students, faculty and staff, visit the ICT web site at http://ict.emich.edu.

**Computers on Campus**

*Lab locations:*
Morell D. Boone Computing Commons  
Address: G07 Bruce T. Halle Library  
Phone: 734.487.2121

Multimedia Commons  
Address: Bruce T. Halle Library, first floor  
Phone: 734.487.2687

Computer Lab  
Address: 2nd Floor, Student Center  
Phone: 734.487.1365

Owen Computing Lab  
Address: 101 Owen Building  
Phone: 734.487.2241

Some of the colleges and departments have specialty labs available for different uses. Your professor will tell you about using these specialty labs. If you would like to know more visit the web site of you specific college or department.

**ICT Computer Help Desk**

Address: 106 Halle Library  
Phone: 734.487.2120  
Web site: http://ict.emich.edu

The ICT Computer Help Desk can assist you with problems accessing EMU's Internet-based resources such as my.emich or the residence hall network (ResNet). Check the ICT Help Desk web site for more information on protecting your computer from viruses and other malicious programs.

**my.emich Portal Account**

my.emich is Eastern Michigan University's personal portal. It is an official form of communication with EMU. This secure site provides students, faculty and staff with world-class intranet and Internet services including a 20 MB e-mail account and calendar. It is where you can check e-mail, access EMU’s Web, register for classes, check your grades and pay tuition through e-Bill. For complete information on setting up your account, please visit the my.emich web site at: http://my.emich.edu and single click on "How Do I Get my user name and password."

**EMU Computer Store**
Eastern Michigan University's Computer Store is the location for students, faculty and staff to purchase computers, software and related products at an educational discount. The ICT Computer Store web site provides information on hardware, software, special promotions and details about the computer refresh program.

**ResNet**

ResNet is Eastern Michigan University's residence hall network service. ResNet uses dedicated Ethernet wiring to connect students to the University network and the Internet, and works much like DSL or cable modem. Service is provided free of charge to students living in University Housing residence halls.

Advantages of ResNet: ResNet is convenient, requiring no modem or phone line to connect; ResNet is fast; and ResNet is a 10Mbit/sec Ethernet network.

To sign up for ResNet, plug in and go through the simple registration process. For more detailed information about ResNet, visit the ICT web site at http://ict.emich.edu.

**Wireless Networking**

Wireless networking is available to students, faculty and staff in select locations on campus. Wireless networking allows those with a wireless compatible laptop computer, and a my.emich user name and password, to connect to the campus network without being "plugged in." For more details about the EMU Wireless network and responses to frequently asked questions, visit the ICT web site at http://ict.emich.edu.
Student Affairs and Campus Services

Click on a link to be taken to the entry below.

- **Campus Services**
  - The EMU Student Center
  - Campus Life
  - Department of Diversity and Community Involvement
  - Career Services Center
  - Cooperative Education
  - Student Government
  - University Student Identification Card
  - Ombudsman
  - Students with Disabilities Office
  - Office of International Students
  - Veterans Services Office
  - Children's Institute
  - Counseling Services
  - University Health Services
  - Health Education and Wellness Programs

- **Campus Living**
  - Housing
  - Residence Halls
  - Apartments on Campus
  - Dining Services
  - Student Rights and Responsibilities

**Campus Services**

**The EMU Student Center**

Address: 900 Oakwood St., Rm. 370 Ypsilanti, MI 48197  
Phone: 734.487.1157  
Fax: 734.487-0493  
Website: http://www.emich.edu/studentcenter

The EMU Student Center is the interactive heart of student life at Eastern. The building’s concave east side architecturally declares the Student Center’s intent to “embrace” the campus and act as a unifying force in the daily life of Eastern. This unifying mission is further reinforced in the Student Center’s mix of facilities, services, and programs designed to create an environment to attract and serve students, faculty, staff, and the local community. The Student Center helps build a powerful and positive, diverse and collegiate, academic community at EMU. The Student Center is immediately adjacent to the Halle Library on the south, and the Recreation/Intramural building on the southeast, and is near the academic core of the campus. The east side of the Student Center is a three-story glass wall that overlooks University Park.

The EMU Student Center’s first floor consists of the EMU Bookstore operated by Follett, fireplace lounge, state of the art 250-seat auditorium, food court with comfortable seating for 450, Wendy’s, Subway, Taco Bell/KFC, Sbarro’s, Green Market Bistro, convenience store, TCF Bank, Eagle Card Office, Apple store, ticket office, and a gaming center. The second floor consists of the grand ballroom with banquet-style seating for 650, pre-function fireplace lounge, University Art Gallery, Student Center Art Gallery, Admissions Welcome Center, University Information Center, Service EMU, Office of International Students, New Student Programs, Student Judicial Services, Students with Disabilities Office, 24/7
computer lab, Commuter Central and lounge, and Starbucks Coffee. The third floor consists of meeting rooms including the Native American inspired Kiva Room, Event Planning Office, Student Center Administration, and the Center for Student Involvement that includes Student Government, Greek organizations, student organizations, Campus Life, Diversity and Community Involvement Programs, and VISION. For additional information about the EMU Student Center visit www.emich.edu/studentcenter. The Campus Information Center on the second floor of the Student Center can provide more information on the Center’s programs and services. Call the friendly staff at 734.487.1157.

Campus Life

Address: 345 EMU Student Center
Phone: 734.487.3045
Fax: 734.480-1927
Web site: www.emich.edu/campuslife

Campus Life offers student-centered learning, development and involvement activities that challenge and support the unique gifts, needs, experiences and interests of our students, our professional staff members and members of the broader campus community.

- **Arts, Intellectual, Cultural and Entertainment Programs** - Offering social engagement and aesthetic literacy experiences through a variety of activities including late night/evening/weekend programs, intellectual/cultural experiences, guest speakers and artists, student performances, films and more.
- **Commuter Life** - Providing access to an array of services designed to support commuter students including Service EMU, temporary and one night campus housing for commuters, commuter scholarships and Student Legal Services. Also serving the transition, student involvement and engagement needs of commuters through commuter orientation, the Commuter Student Association, and campus activities.
- **Leadership and Student Involvement** - Providing students with opportunities to enhance their personal and professional skills through student volunteer boards, student employment experiences, and an array of leadership development programs.
- **Orientation and Transition Programs** - Offering programs, services and resources assisting students to transition successfully into and through their college career including Fusion: New Student Orientation for freshmen, transfer and adult students, the MyFY Website, First Year Mentor Program, and Real Beginnings.
- **Student Organizations and Greek Life** - Providing programs, services, resources and advocacy for student organizations, including fraternities and sororities to function safely and effectively, contributing positively to the EMU community.

Department of Diversity and Community Involvement

Diversity Programs
Address: EMU Student Center, 3rd Floor
Phone: 734.487.3118
Fax: 734.487.6910
Website: www.emich.edu/dci

Volunteerism and Community Service
EMU Student Center, 3rd Floor
Phone: 734.487.3045
Fax: 734.480.1927
Website: www.emich.edu/vision

The Department of Diversity and Community Involvement (DCI) offers numerous opportunities for engagement and learning beyond the classroom. DCI provides opportunities for students, faculty, and staff to get involved in social justice education, programming, and activism.
Diversity and Community Involvement is comprised of four centers: the Center for Multicultural Affairs, the Lesbian, Gay, Bisexual, Transgender Resource Center (LGBTRC), VISION (Volunteers Incorporating Service into our Neighborhoods), and the Women’s Center. The Center for Multicultural Affairs, LGBTRC and the Women’s Center offer a variety of programming and services promoting diversity and inclusion. The Centers recognize, support, and celebrate diverse student populations; promote academic, personal, social and professional development of diverse student populations; provide information, resources, and referral services, and help faculty and staff teach effectively in a diverse University setting. Examples of our programming include: Cultural Heritage Celebration Months, Out Month, Lavender Role Models and Mentors, Take Back the Night, and the Vagina Monologues.

VISION Volunteer Center – the fourth of DCI’s Centers – offers opportunities for students to get involved in service. VISION helps students learn about social issues, address community needs and strengthen community partnerships. Our student-led programs include Alternative Breaks, America Reads, Best Buddies, GREEN, Habitat for Humanity, Jumpstart, Kid Konnection, Students Against Hunger and Homelessness, and One-Day Events.

Career Services Center

Address: 200 McKenny Hall  
Phone: 734.487.0400  
Fax: 734.487.0940  
Web site: career.emich.edu

Satellite Office:  
College of Business  
Address: 210 Owen Building  
Phone: 734.487.4099

The Career Services Center (CSC), 200 McKenny Hall, provides a variety of services for both undergraduate and graduate students. Assistance with résumé preparation, interviewing and job search strategies is available. In addition, CSC offers job fairs, student employment listings, on-campus interviews and a résumé referral service. For a more complete list of their services go to career.emich.edu.

Walk-In Advising

If you have a quick question or would like your résumé reviewed, CSC offers walk-in advising with trained career specialists. Walk-in advising is located in the main CSC office in 200 McKenny Hall. Hours vary each semester; call 734.487.0400 for the current schedule.

Career Resources

CSC’s career resources area, located in 200 McKenny Hall, is an excellent source of information and assistance for career planning and your job search. Information provided relates to:

• Career planning and development for students and alumni  
• Characteristics of occupations, such as employment outlook, education needed, and salary trends  
• Online databases of companies nation-wide  
• Internships and volunteer opportunities  
• “How-to-do-it” books and videotapes on conducting a job search  
• Graduate schools  
• Résumé and interview preparation  
• Job postings/on-campus interview opportunities

Cooperative Education
The Program

Cooperative education (co-op) is a unique educational plan designed to enhance academic studies and assist students in attaining career goals. The Career Services Center and academic departments cooperate with business and industry as well as private and public agencies in developing work assignments that parallel the student's academic program. Co-op provides direct, hands-on experience while adding practical dimensions to the student's academic background. Students typically earn wages and academic credit for each co-op job assignment. (For Career Services Center locations click here).

Benefits to the Student

- Increases employment opportunities upon graduation. Approximately 70 percent of co-op participants are offered permanent jobs by their employer upon graduation.
- Awards college credit while being paid to work. Co-op students also earn wages significantly higher than most student employment opportunities.
- Increases earning and promotional potential. Co-op students start between five and 10 percent above normal entry-level salaries after graduation.
- Offers on-the-job training related to course of study. Co-op students typically perform professional level assignments.
- Links classroom and work place. Co-op placements provide the opportunity to apply academic studies while bringing career goals into focus.

Eligibility/Application

Most students must be at least of junior standing with 12-15 credit hours or prerequisites completed in major. The College of Business (COB) and the College of Health and Human Services (CHHS) will consider second-semester sophomores in selected majors. Note that eligibility and prerequisites vary based on major/minor and that departmental approval is required in most cases. A first step in pursuing a co-op is to speak with an adviser in your program of study to determine application procedures.

Grade Point Average

A 2.5 cumulative GPA is required unless waived by faculty sponsor. Students on academic probation are not eligible to participate.

Academic Credit

Generally three credits are awarded for each placement, but may vary by major and department. Work experiences are graded on a credit/non-credit basis.

Internships

Students interested in an internship are encouraged to seek information from their departmental office regarding placement assistance and application materials. Requirements may vary by department and academic discipline. The Career Services Center provides listings for internships at EagleCareers.eRecruiting.com and also has print materials about internship opportunities at their main office in 200 McKenny Hall. Students are encouraged to identify opportunities, seek departmental approval and apply directly.

Pre-Professional Internships

The Career Services Center facilitates the Pre-Professional Internship (PPI) program which is available for freshman and sophomores in all academic majors at any class level. This program offers up to six elective credits for work experience that has allowed students to explore career options. For additional information go to http://career.emich.edu.
Student Government

Governed by the President (elected each spring)
Address: EMU Student Center, Room 342
Phone: 734.487.1470
Web site: www.emich.edu/studentorgs/studentgov

Student Government at EMU is committed to improving the quality of student life on campus. The student body each spring elects a president, vice president and 24 senators who, along with representatives appointed from various organizations, compose the Student Senate. The executive officers and members provide input to the administration of the University to help solve problems and improve programs and services. Student Government also sponsors campus-wide events and trips to Lansing to meet with state legislators.

Not only do student representatives get valuable experience in the process of government, but they also represent the University on local, state and national levels. Any EMU student may run for a Student Government position. Interested students are also welcome to serve on Student Government committees and University advisory groups.

University Student Identification Card

Eagle Card Office
Address: EMU Student Center, 1st Floor
Phone: 734.487.3176
Web site: http://ict.emich.edu/eagleonecard

A valid Eastern Michigan University identification card is required for many services on campus including the use of special facilities. To obtain a University identification card, students must be registered for at least one class for the current or upcoming semester. You will need one piece of valid picture identification and a copy of your class schedule. Visit the Eagle Card Office web site for office hours and updated information.

Ombudsman

Address: 112 Welch Hall
Phone: 734.487.0074
Fax: 734.487.7170
Web site: http://emich.edu/ombuds

The ombudsman facilitates the resolution of individual complaints which do not have a formal avenue of redress through official University channels. The ombudsman advises students on University policy and procedures, identifies and recommends changes to current practices, and communicates student concerns/issues to appropriate University officials. In addition, the ombudsman presents workshops, conducts needs assessments and mediates disputes.

In the event of an emergency, the ombudsman is the main contact between the student, the student's family and the University. When a student emergency exists, the ombudsman has the responsibility for notifying the student's instructors, and for contacting family members and other appropriate personnel.
Students with Disabilities Office

Address: EMU Student Center, Room 220
Phone: 734.487.2470
TTY: 734.487.2470
Web site: www.emich.edu/disabilities

Students with physical, learning or psychological disabilities, sensory impairments and chronic health conditions must register with the Students with Disabilities Office (SWDO) in order to receive accommodations. Typical accommodations include extended time for examinations, the ability to take examinations in a distraction-free environment, access to adaptive technology, sign language interpreters, books on tape and note takers. However all accommodations are determined on a case-by-case basis according to each student's documented limitations. The SWDO also works closely with faculty members and other University departments, such as Housing and Campus Life, to ensure that students with disabilities receive the accommodations they need to participate in all University programs, services, and activities. All disability information is strictly confidential and students are encouraged to contact the SWDO to discuss their individual needs.

Office of International Students

Address: EMU Student Center, Room 244
Phone: 734.487.3116
Web site: www.emich.edu/ois

The Office of International Students extends a welcome to all international students pursuing educational goals at Eastern Michigan University. Concerned, responsible and professional staff is available to assist students in any matter, including orientation, advice on immigration issues, academics, financial, employment and personal concerns. The staff also provides the preparation of documents needed to maintain favorable status in this country. This office serves as a consultant to faculty and staff on international student affairs and acts as a catalyst for the development of various international connections in the University and/or community to promote international education and understanding; and initiates enhancement programs such as cross-cultural activities on and off campus.

International students are encouraged to make regular contact with the office.

Veterans Services Office

Address: 303E Pierce Hall
Records and Registration
Phone: 734.487.3119
Fax: 734.487.6808
Web site: www.emich.edu/compliance/veterans/

The Veteran Services Office (VSO) coordinates all campus services for veterans who are pursuing their education at EMU. It is the resource center for veterans’ benefits; veterans must report successful academic progress, class drops and adds, and/or relevant changes in personal status to the VSO in order to maintain benefits.
The office assists veterans in housing and financial aid, and works closely with disabled veterans to provide full educational benefits. Veterans should direct all questions to a representative of this office.

Children's Institute

Address: 103 Rackham Hall
Phone: 734.487.2348
Fax: 734.487.0286
Web site: www.emich.edu/uhs/children.html
Hours: Monday - Friday, 7:30 a.m. to 5:30 p.m.

The EMU Children's Institute, accredited by the National Association for the Education of Young Children, offers high-quality early childhood education programming to families of Eastern Michigan University and surrounding communities. We offer varied programs designed to meet the needs of students and working families.

The Institute provides high-quality care and education for children ages 18 months through six years. Full- and half-day programs are available for toddlers, preschoolers, and kindergartners. A special arrangement with the Ypsilanti Public School System provides transportation to and from Perry Child Development Center for the morning kindergarten program. We also offer a full-day kindergarten program at the Children's Institute.

The EMU Children's Institute serves as the practicum placement site for students preparing to be early childhood education teachers. Practicum students are closely supervised by professional classroom teachers and University faculty members.

Flights of Imagination, the summer day camp program at the Children's Institute, offers exciting and varied programs for children entering kindergarten and first grade, supervised by professional teaching staff, with EMU students as camp counselors. Camp is offered as eight weekly sessions.

Activities at the Children's Institute are play-based and developmentally appropriate, and designed to meet the needs of each child in the group. Teaching staff have completed coursework and hold degrees/advanced professional degrees in early childhood education. Staff training and in-service days are conducted throughout the year.

Counseling Services

Address: 313 Snow Health Center
Phone: 734.487.1118
Fax: 734.481.0050
Website: www.emich.edu/uhs/counseling.html
Hours: Monday – Friday, 8 a.m. to 5 p.m.

Counseling Services provides:

- Free, confidential, personal counseling for EMU students
- Informative, interactive workshops and presentations in classrooms and other locations on topics including managing depression, resolving communication and relationship problems, building self esteem, addressing anger and test anxiety, among others
- Crisis response and support
- Screening for depression and other concerns
- Consultation with faculty and staff about student and classroom issues
- Self-help lending library

Professional, licensed psychologists and counselors provide services. Graduate students completing internships also provide services under professional staff supervision.
All registered EMU students are eligible for services. Appointments can be made by phone or in person. Counseling is confidential and at no cost to students.

University Health Services

Medical Services

Address: Snow Health Center Main Floor
Phone: 734.487.1122
Fax: 734.487.2342
Web site: www.emich.edu/uhs
Hours: Monday-Friday 8 a.m. to 5 p.m.

The Center is closed during official University closings. Appointments are preferred, but walk-ins can usually be accommodated.

All currently enrolled students, faculty, staff and their spouses at Eastern Michigan University are eligible for services.

Medical Services provides treatment as well as preventive services for a wide range of acute, episodic and ambulatory medical conditions, some of which include:

- Evaluation and treatment for minor illness and injury
- Physical examinations
- Allergy shots, immunizations, meningitis shots, TB testing and flu shots
- Women’s health care including annual exams, diagnosis and treatment for infections, birth control and pregnancy tests
- X-ray and laboratory tests

Snow Health Center is a fully staffed medical facility. The professional team includes physicians, nurse practitioners, nurses and technologists that have specialized in the health and lifestyle concerns of young adults. In addition, faculty and residents from St. Joseph Mercy Hospital work with the staff in a collaborative program to provide services.

The EMU Student Health Insurance policy, sponsored by Student Government, is accepted in full for covered services after co-pays are met. The EMU policy can be reviewed and purchased online at www.uhcsr.com

Pharmacy

Address: Snow Health Center, Main Floor
Phone: 734.487.1125
Fax: 734.487.0273
Website: www.emich.edu/uhs

The pharmacy is licensed by the State of Michigan and provides quality pharmaceutical services with an emphasis on patient counseling regarding medication(s), issues involving possible drug interactions, proper use and storage of medication(s), dosage and side effects. The pharmacy can fill prescriptions written by licensed physicians in Michigan as well as most prescriptions written by out-of-state licensed providers. We participate with many prescription insurance plans. The pharmacy also maintains a variety of over-the-counter products, including no-prescription medications.

Health Education and Wellness Programs
Health Education provides comprehensive health and wellness services and programs aimed toward the enhancement of academic achievement and the promotion of healthy lifestyles. Some of the services include:

- Alcohol, tobacco, and other drug prevention and education programs, screenings and assessments
- Checkpoint Program
- HIV counseling/testing and referral services
- Health Resource Library
- Classroom and workshop presentations
- CloseUP Theatre Troupe
- Violence Intervention Program (VIP)
- CPR/First Aid certification classes

Campus Living

Housing

Address: Housing and Dining Services Office, (Lower Level, The Commons) Ypsilanti, MI 48197
Phone: 734.487.1300
Fax: 734.487.8513
E-mail: housing@emich.edu
Web site: www.emich.edu/housing/
Hours: 8:00 a.m. to 5:00 p.m., weekdays

Residence Halls

Eastern Michigan University's residence system provides housing for more than 3,000 students, staff and faculty. Housing options include both traditional residence halls and apartments. Twelve residence halls offer six room layouts to choose from. One can live in a double room, co-ed hall, or upperclass single hall. Features include laundry and kitchen facilities, TV and study lounges, cable television, local telephone service and recreational amenities. All halls feature reception desk services and in-room network connections for Internet and e-mail service. Residence hall staff provides educational and recreational programs and promotes the safety and welfare of residents.

Students can stop by their hall front desk to pick up their mail, make change or check out cleaning supplies, vacuums and recreational equipment.

The custodial and maintenance staff will repair any permanent fixtures in students' rooms, such as heat, plumbing or light fixtures, as well as clean hall corridors, lounge areas and community bathrooms.

Residence hall students also enjoy the convenience of having shuttle bus stops right in front of many halls. Residents can catch a ride around campus, head to the College of Business in downtown Ypsilanti or go shopping in nearby Ann Arbor.

To reserve a room, students must:

1. Apply online from our web site at www.emich.edu/housing/main.php;
2. Read the contract carefully and thoroughly. The contract contains important information one needs to know before reserving a room;
3. Select a meal plan;
4. Select a residence hall program;
5. Make a $200 prepayment or print the contract and mail to:
Apartments on Campus

Eastern Michigan University offers traditional residence halls as well as apartment living options for students. Three apartment complexes are available: Brown/Munson, Cornell Courts and Westview apartments.

Applicants must be:

- enrolled in 12 undergraduate credit hours; or
- enrolled in six graduate credit hours; or
- actively engaged in an internship, or writing a master's, specialist's, or doctoral thesis; or
- upperclass or non-traditional first year students

University apartments include:

- locations convenient to classes, the library, and athletic events;
- utilities included in rent (gas, electric, water and trash collection);
- basic cable service;
- laundry rooms in each building;
- storage facilities at some locations;
- community rooms for complex activities;
- leasing options;
- Internet in Brown/Munson

A student must submit an application to be considered for an apartment. Applications are available from the apartment office and require a $20 non-refundable processing fee.

Assignments are made by the leasing coordinator according to the date the application is received. Applicants are notified when their application has been approved and a unit is available for occupancy. Apartments are leased as they become available.

According to Eastern Michigan University policy, the maximum number of individuals allowed to live in a two-bedroom apartment is four (4). The maximum number of individuals in a one-bedroom unit is two (2).

Contact:

Address: Housing and Dining Services Office, (Lower Level, The Commons) Ypsilanti, MI 48197
Phone: 734.487.0445
Web site: www.emich.edu/housing/apartments

Dining Services

Address: Housing & Dining Services Office (lower level, The Commons)
Phone: 734.487.0418
Fax: 734.487.8513
Web site: www.emich.edu/dining

You will never get bored eating the same old food in the same old place at EMU. There are more than 20 locations campus-wide (including four convenience stores). All locations are open to students, faculty, staff, parents and invited guests. Various meal plan memberships which may be purchased by the university community have been designed to complement lifestyles and budgets. Meal plan memberships may be charged to student accounts, or purchased by cash, check or charge card (Visa/MasterCard). Memberships may be purchased at the Housing & Dining Services Office; Eagle Express may also be purchased at the Eagle OneCard Office in the Student Center. Following are the available
meal plan memberships:

Required for all freshmen living in residence halls:

**PLATINUM • 18**
- 3 meals daily Monday-Friday
- 2 meals Saturday • 1 meal Sunday
- 2 guest meal passes
- $75 E-Dollars per semester for use at any EMU campus operated location

**GOLD • 13**
- 2 meals daily Monday-Saturday
- 1 meal Sunday
- 4 guest meal passes
- $150 E-Dollars per semester for use at any EMU campus operated location

**SILVER • 8**
- 8 meals any time Monday-Sunday
- 8 guest meal passes
- $250 E-Dollars per semester for use at any EMU campus operated location

Available only to upperclassmen returning to the residence hall program or transferring with a minimum of 24 credit hours:

**SUPER FLEX**
- Debit account with total flexibility
- An additional 25% administration fee will be required

**BASIC FLEX**
- Debit account with total flexibility
- An additional 25% administration fee will be required

Additional memberships available to all non-residence hall students, faculty and staff:

**APARTMENT RESIDENTS FLEX**
- Debit account with total flexibility

**THE COMMONS BLOCK PLAN**
- Designed for those who enjoy The Commons’ experience of all-you-care-to-eat buffet dining
- Monday-Friday, lunch and dinner
- Always fresh -- many healthy options
- Wireless internet access
- Purchase in blocks of 5 meals = $40
- Purchase 25 meals and receive 2 free meals
- Balance rolls over semester to semester

**EAGLE EXPRESS**
- 5% discount at all EMU operated facilities available to faculty, staff and students
- Used in all dining locations campus-wide including 4 convenience stores
- Pre-paid debit card means safety and convenience without carrying cash
- Excellent way to supplement your meals 24/7
- Minimum beginning balance is $25 and balance will roll over from semester to semester

NOTE: Posted hours will vary pending holidays and academic calendar. Some dining locations will remain open during unscheduled shutdowns such as snow emergencies. Contact each area for specific hours.
The Commons
Formerly known as Dining Commons ONE, The Commons offers an all-you-care-to-eat self-serve food court featuring home cooked entrees, pasta and stir fry lines, soups, popular fast foods, an extensive salad bar, desserts, and the very popular make-your-own Belgium waffles. Accessible through Downing Residence Hall. 734.487.2442

Eastern Eateries
High tech fast food mall with 6 shops, featuring 5 national franchises: Jump Asian Cuisine, A & W, Sbarro, Sunset Strips and Freshens. Sundays from 1-6 pm enjoy one-time walk through all-you-care-to-eat Buffet Extravaganzas. Conveniently located between Phelps-Sellers and Walton-Putnam Residence Halls. 734.487.0444
While at the Eateries check out the QuickFlixx convenience store located on the lower level. This little store has: groceries, toiletries, snacks, greeting cards and video rentals. 734.487.0122

CrossRoads Marketplace
Home of the first room service venue in the country for residents "on the hill," this is a unique food court and full-service grocery store concept featuring Einstein Bros. Bagels shop plus Hot Off The Grill (entrees) and Panini Grill (deli). Also featured is an extensive video rental and greeting card selection. Located in the Hoyt Conference Center. 734.487.3066

EMU Student Center Food Court
Features the Lobby Shop (snack shop), Taco Bell Express, KFC Express and Starbucks. This year an exciting new GreenMarket Bistro opened its doors featuring The Garden Bistro (the first all-vegetarian venue on campus), Dog Daze gourmet hot dogs, Jet Smoothies and Sbarro. 734.487.6416

Satellite Operations - all shops provide sandwiches, soups, salads, pastries and beverages.
  • Cafe Crescendo located in Alexander Hall. 734.487.8450
  • Common Ground Cafe located in the Marshall Building. 734.487.3412
  • Courtside located in the Rec/IM. 734.487.6693
  • Flying Eagles located in Pray-Harrold (northeast end). Also serves Starbucks coffee. 734.487.6965
  • Food For Thought located in Sill Hall. 734.487.6965
  • Paradox Cafe & Commons located Halle Library. Also serves Starbucks coffee. 734.487.4550
  • The Bottom Line located in the College of Business (downtown Ypsilanti). 734.487.5609
  • TO BE Cafe located in Quirk-Sponberg Theatres. 734.487.6699

Student Rights and Responsibilities
The Office of Student Judicial Services works to create an effective living and learning environment by designing policies such as the Student Code of Conduct, providing a disciplinary process and conducting programs that foster ethical development, personal accountability and civility toward others. For information concerning student rights and responsibilities contact:

Office of Student Judicial Services
Address: 250 EMU Student Center
Phone: 734.487.2157
Fax: 734.487.4376
Web site: www.emich.edu/sjs

University Governance and Individuals' Rights
Eastern Michigan University is an autonomous University governed by an eight-member Board of Regents appointed by the governor of Michigan and subject to the approval of the Michigan Senate. Financial support for the University comes from student tuition and fees, and support provided by the citizens of Michigan.

Current members of the Board of Regents are Thomas W. Sidlik, Ann Arbor, chair; Roy E. Wilbanks, Ypsilanti, vice chair; Floyd Clack, Flint; Gary D. Hawks, Okemos; Philip A. Incarnati, Clarkston; Mohamed Okdie, Detroit; Francine Parker, St. Clair Shores; and James F. Stapleton, Ann Arbor.

Policies on Non-Discrimination

Eastern Michigan University shall not discriminate against any person because of race, color, creed, religion, national origin, gender, age, disability or sexual orientation. Further, the University shall work for the elimination of improper discrimination in the areas listed above in organizations recognized by the University and from non-University sources where students and employees of the University are involved.

Equal Opportunity and Affirmative Action Policies

Eastern Michigan University admits students of either sex, and any race, color, or national or ethnic origin to all the rights, privileges, programs and activities accorded to students at this University. The University does not discriminate against students on the basis of sex, race, color or national or ethnic origin in the administration of its educational policies, admissions policies, scholarships and loan programs, athletic or other University-administered programs. Further, it is the policy and practice of Eastern Michigan University to take affirmative action in all personnel matters.

Gender Equality

It is the policy of Eastern Michigan University to comply with Title IX of the Education Amendments of 1972 and its regulations, which prohibit discrimination on the basis of sex. Anyone who believes that in some respect Eastern Michigan University is not in compliance with Title IX and its regulations should contact the executive director of Human Resources.

Non-Discrimination of the Disabled and/or Challenged

Sharon Abraham, director
Diversity and Affirmative Action
Address: 11 Welch Hall
Phone: 734.487.1166

In its programs, activities and employment, Eastern Michigan University does not discriminate on the basis of physical or other disabilities. Anyone who believes that in some respect Eastern Michigan University is not in compliance with the Rehabilitation Act and its regulations should contact the executive director of Human Resources. Prospective students with disabilities who are otherwise qualified for admission are invited to apply. Students encountering difficulty with access to full participation in University activities should contact the dean of students.

Statement on Campus Violence

In accordance with the education mission of Eastern Michigan University, the University adopts this policy statement to promote a safe campus environment. The statement reflects the nonviolent spirit of the relationship between students, staff, administrators, faculty, contractors and visitors at Eastern Michigan University.

The safety and security of our students, staff, administrators, faculty, contractors and visitors is extremely important to Eastern Michigan University.
Threats, acts of aggression and threatening or violent behavior are not tolerated by or toward students, staff, administrators, faculty, contractors or visitors. All reports of incidents will be taken seriously and will be dealt with appropriately. Threats can be direct and immediate or indirect and implied; threats can occur verbally, nonverbally or in writing. Acts of aggression include, but are not limited to, abusive behavior, stalking, and tampering with property, and are intended to intimidate, create fear, imply harm or destroy property. Threatening or violent behavior is behaving in such a way that poses an immediate threat to self or others by acts of physical harm.

All students, staff, administrators, faculty, contractors and visitors are strongly encouraged to report threats, acts of aggression, and threatening or violent behavior, to the Campus Police (911 for all emergencies, 734.487.1222 for all other calls), Human Resources (734.487.0083) and/or your department head or supervisor, to help ensure the safety of our campus community.

**Family Education Rights and Privacy Act**

In compliance with the Family Education Rights and Privacy Act (FERPA), Eastern Michigan University assures that any person who is or has been in attendance as a student at EMU has access to his/her educational records. Furthermore, such individual’s rights to privacy are assured by limiting the transferability of records without the student’s consent.

The following are matters of public record and may be included in directory publications or disclosed upon request without consent: the student’s name, address, telephone listing, e-mail address, date and place of birth, major field of study, participation in recognized activities and sports, weight and height (if a member of an athletic team), dates of attendance, degree and awards received and most recent previous educational agency or institution. Registration documents of student organizations that contain the names and addresses of the officers and the statement of purpose of the organization also are considered public information. These documents are available in the Office of Campus Life Programs.

EMU reserves the right to make directory information public unless a student files a written request to withhold information with the University Communications Office within 14 days after the semester begins. Once such a request is filed, the information will remain private until the student requests the Office of Public Information to release it.

Individuals who believe the University is not in compliance with FERPA and its regulations should contact the executive director of Human Resources.

**Notification of Student Rights under FERPA**

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. **The right to inspect and review the student’s education records within 45 days of the day EMU receives a request for access.**

   Student should submit written requests to the EMU Office of Records and Registration, identifying the record(s) they wish to inspect. A University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. **The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading.**

   Students should write the University official responsible for the record, clearly identify the part of the record they want changed and specify what is inaccurate or misleading.
If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. **The right to consent to disclosures of personally identifiable information contained in the student's education record, except to the extent that FERPA authorizes disclosure without consent.**

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by EMU in an administrative, supervisory, academic, research or support position (including law enforcement personnel and health staff); a person or company with whom EMU has contracted (such as an attorney, auditor or collection agent); a person serving on the Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

The University may also disclose, without the student's permission, to parents and legal guardians when the student is under 21, any violation of existing alcohol or drug laws or University policy.

EMU has designated the following items as directory information and these items may be included in publications or disclosed upon request without consent: the student's name; address; telephone listing; e-mail address; date and place of birth; major fields of study; participation in recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received; and the most recent previous educational agency or institution attended by the student.

EMU reserves the right to make directory information public unless a student's written objection (specifying the category of information not to be made public without prior consent) is filed at the University Communications Office within 14 days after each term begins.

Students who do not want to be included in the annual EMU Student Telephone Directory should complete a Directory Exclusion Card. Cards can be picked up from University Publications, Housing and Dining Services, Records and Registration and the Library Copy Center. They must be turned in by September 15 to the Library Copy Center or to University Publications. Completing the exclusion card will remove the student's name, address and phone number from the current and subsequent telephone directories.

4. **The right to file a complaint with the U.S. Department of Education concerning alleged failures by EMU to comply with requirements of FERPA. The name and address of the office that administers FERPA is:**

   Family Policy Compliance Office
   U.S. Department of Education
   600 Independence Avenue, SW
   Washington, D.C. 20202-4605
Continuing Education

Click on a link to be taken to the entry below.

- Mission Statement
- Off-Campus Locations
- EMU-Online
- Independent Learning
- Prior Learning Assessment
- One-Week Courses
- Professional Programs and Training
  - Centers for Corporate Training
  - Professional Education Center
- Academic Programs Abroad

Byron D. Bond, dean
Address: 102 Boone Hall
Phone: 734.487.0427
Fax: 734.487.2316

Dan Gaymer, associate dean
Address: 100 Boone Hall
Phone: 734.487.0407 or 800.777.3521
E-mail: continuing.education@emich.edu
Web site: www.ce.emich.edu

Continuing Education offers flexible, innovative and exciting credit courses and program options. Courses offered through Continuing Education are available at times, locations and in formats that are convenient for students balancing a full- or part-time job, co-curricular activities and/or family responsibilities with their college education. Credit earned in Continuing Education courses and programs is regular University academic credit.

Each semester, Continuing Education publishes a course bulletin listing the courses available that semester. These bulletins are available at the Continuing Education Office in Boone Hall, online at www.ce.emich.edu and in display racks in various locations around the EMU campus. In addition, all CE course offerings are listed in the University’s online class schedule at insight.emich.edu/Students/ocsb/index.cfm. Since some courses are scheduled after the CE course bulletin and the University class schedule are published, refer to the University’s online class schedule for updates. As with all EMU courses, your academic adviser is the person best equipped to guide you and answer specific questions about which courses will meet the requirements of your program of study.

Mission Statement

It is the mission of Continuing Education to provide leadership in dissolving traditional campus boundaries through collaborative programs that complement and extend the educational, research and public service activities of the University, as understood in the context of our identity as a metropolitan and publicly engaged University. Continuing Education also engages individuals across their life span, from high school, through traditional University years, to adult working years, through individual professional development and educational/training programs for business, government and nonprofit agencies. We work to extend the reach and impact of the University not only to the State of Michigan but globally, recognizing that our students live and work in the context of a closely interconnected world.

The most important asset of any institution, corporation or business is the people that make things happen. With advanced education and training, they become better positioned to meet the individual and collective challenges that lie ahead.
Eastern Michigan University Continuing Education is committed to helping meet these challenges. We offer flexible and innovative applied academic experiences in the State of Michigan, nationally and internationally.

Through EMU's Continuing Education units, it is now possible for individual adult students, businesses, and government and social agencies to access the tremendous resources of one of Michigan's leading universities. Using alternative formats and teaching technologies, we deliver education, applied research, training and consultation services. Ongoing research initiatives and collaborations ensure that our programs respond to changing needs in a changing environment.

**Off-Campus Locations**

Continuing Education offers full degree programs and certificates at convenient off-campus locations throughout Michigan. For a complete list of programs, contact the locations listed below or visit www.ce.emich.edu.

EMU-Brighton  
2250 Genoa Business Park Dr., Suite 120  
Brighton, MI 48114  
Phone: 810.225.0361  
E-mail: brighton@emich.edu

EMU-Detroit  
Northwest Activities Center  
18100 Meyers  
Detroit, MI 48253  
Phone: 313.342.2767  
E-mail: detroit@emich.edu

EMU-Fish Lake  
2816 Fish Lake Rd.  
Lapeer, MI 48446  
Phone: 810.667.2350  
E-mail: fish.lake@emich.edu

EMU-Flint  
1401 East Court Street, 1000 Mott Memorial Building  
Mott Community College  
Flint, MI 48503  
Phone: 810.762.0303  
E-mail: flint@emich.edu

EMU-Jackson  
2111 Emmons Road, 127 McDivitt Hall  
Jackson Community College  
Jackson, MI 49201  
Phone: 517.787.7265  
E-mail: jackson@emich.edu

EMU-Livonia  
38777 W. Six Mile Road, Suite 400  
Livonia, MI 48152  
Phone: 877.818.4368  
E-mail: livonia@emich.edu

EMU-Monroe
When you're ready to learn, EMU is ready to teach. Online courses make it easy for you to learn around your schedule, in a location convenient for you. A wide range of courses are available online as an alternative to attending class on campus. They've been developed by EMU faculty and meet the same high standards as on-campus offerings. The course offerings and registration information are available at www.emuonline.edu.

**Independent Learning**

Phone: 734.487.0407
E-mail: distance.education@emich.edu

Satisfy general education requirements and earn college credits through self-paced instructional courses via EMU’s Independent Learning program. You may register at any time, and you have up to six months to complete coursework. You’ll receive instructional tapes, study guide and book lists to begin your lessons. Professors are available for consultation and to grade assignments that you send through regular mail or fax. There are proctored examinations for each course.

**Prior Learning Assessment**

Receive up to 30 hours for learning you've gained outside the classroom - including seminars, training completed on the job and knowledge acquired independently in a particular field. Through Prior Learning Assessment, you'll identify and analyze learning, document your experience, match the learning to EMU courses and compile a written portfolio to submit for evaluation. Credits earned through portfolio-assisted prior learning may be applied toward any degree for which they are appropriate. Students seeking credit for prior learning must attend a free required workshop.

**One-Week Courses**

Earn credit during EMU’s winter break by taking a one-week course offered in northern Michigan.

EMU-Winter Break
Phone: 877.368.8289
E-mail: winter.break@emich.edu
Earn credit during the spring and summer by taking a one-week course offered on the campus of Northwestern Michigan College in Traverse City.

EMU-Traverse City
Phone: 877.368.8289
E-mail: traverse.city@emich.edu

Professional Programs and Training
Barbara L. Hopkins, director
Phone: 734.487.2259 or 800.932.8689
E-mail: bhopkins@emich.edu

Continuing Education’s Professional Programs and Training offers programs and services for working individuals seeking professional development, ongoing educational opportunities, executive development, workshops and special events of interest to the EMU community and beyond. For a complete list of professional programs and training opportunities, visit www.ce.emich.edu/ppat.

Professional Certificates, Training and CEUs
Professional societies and organizations develop programs and award certificates to encourage members to update their knowledge and skills. The CEU (Continuing Education Unit) is a national standard of measurement to recognize participation in a wide range of organized non-credit educational activities (conferences, seminars, workshops, etc.) in all fields. Opportunities for CEUs, certificates and training include:

- Michigan State Board - Continuing Education Units (SB-CEUs)
- Certified Financial Planning
- Certificate in Information Security Systems
- SHRM Human Resource courses and certificates
- American Payroll Association courses
- Specialist Certificates in Occupational Health and Safety
- Specialist Certificates in Quality Management
- Six Sigma Green and Black Belt certification
- Online test preparation workshops

Centers for Corporate Training

- Center for Quality
- Center for Organizational Risk Reduction
- OSHA Training Institute
Web sites: www.centerforquality.org and www.emuosha.org

The Centers for Corporate Training are nationally known for designing and providing a wide range of training, technical assistance and consulting services for hundreds of companies each year in health, safety, security and quality. Our clients include automotive and non-automotive manufacturers and their suppliers, plastics and electronics producers, the construction industry, healthcare providers and government agencies.

Each of the centers works, in its own way, to help individuals and organizations reach and maintain excellence. We are dedicated to helping companies not only survive but prosper during rapid organization, technological and economic change. We meet our customers where they are, providing on-site instruction and facilitation to help create efficiencies and help them become more effective for their customers.

By developing customized programs, innovative training and effective, practical consulting, the centers support organizations as they improve the quality of their products, the productivity of their processes and the safety of their
workplaces. Our partners are workers, supervisors, managers and executives who will create and succeed in the global marketplace.

The Centers for Corporate Training have served thousands of people in hundreds of companies in North America, Asia, Europe and South America, providing innovative education and training programs around the globe.

The Professional Education Center

Web site: www.emich.edu/public/cob/pec/index.htm

Today’s business challenges require organizations to provide innovative and applied training and development programs. The Professional Education Center (PEC) in the College of Business at Eastern Michigan University provides customized technical and leadership training programs to help businesses and individuals meet challenges and build technical and leadership skills. Students benefit from training and professional coaching from EMU’s world-class College of Business and external instructors and consultants.

The PEC tailors training programs to meet your unique organizational challenges, bringing innovative and applied programs to the workplace. We can bring to your organization programs to enhance management and business skills and to support leader development, including:

- Management Certificate Program – Developing the Leader in You Workshop series
- Emotional Intelligence and Leadership
- The “Mini MBA” – a non-credit program for non-business professionals
- Project Management – Introduction and Certificate Programs
- Biz World 101- for new business professionals

Academic Programs Abroad

George Klein, director
Address: 103 Boone Hall
Phone: 734.487.2424 or 800.777.3541
Fax: 734.487.4377
E-mail: programs.abroad@emich.edu
Web site: www.emich.edu/abroad

In today’s interconnected world, a global perspective is increasingly important and valuable for all students. The Office of Academic Programs Abroad provides opportunities for EMU students to internationalize, diversify and enrich their University education through a variety of study abroad programs, including winter break, spring and summer, intensive language immersion, and exchanges and other semester and academic year opportunities. Some programs offer graduate credit.

Abroad Student Services

The Office of Academic Programs Abroad provides EMU students with:
- Comprehensive study abroad advising
- Study Abroad Orientation
- Health and safety information
- International student identity cards
- International health insurance
- Financial aid coordination and scholarship advice
- Innovative and affordable study abroad programs

In addition to EMU programs, the Office of Academic Programs Abroad maintains a library of information on
hundreds of study abroad programs sponsored by universities all over the world. Students may browse the library and make appointments for advising Monday through Friday throughout the school year. Information on EMU programs abroad can be found at www.emich.edu/abroad.

**Winter Break Programs**

EMU students earn credit while studying abroad with EMU faculty during the break from campus. Classes are scheduled midway through the winter semester. Recent programs include:

- Art in Mexico
- Hospitality Management in London and Paris
- British Studies in London
- Power, Place and Image in Florence and Rome
- Art and History in Prague and Munich

**Spring and Summer Programs**

- The Cultural History Tours are unique travel-study programs that visit multiple countries throughout Europe and Asia. Five- and 10-week programs are offered. Students and professors study major historic and cultural sites while pursuing in-depth academic work in an interdisciplinary context. Since their beginnings in 1974, the Cultural History Tours have become a leader in innovative travel-study abroad, drawing students from EMU as well as other colleges and universities. The Emanuel Fenz Endowed Fund provides a competitive scholarship available to EMU students with financial need, applicable to either the Cultural History Tours or Adventures Abroad programs.
- Adventures Abroad Programs are short-term, low-cost travel-study tours that offer EMU students the opportunity to travel with EMU faculty to Europe or the Mediterranean while earning three credits in literature, art or another discipline. The Adventures Abroad program is a short-term module embedded within the longer Cultural History Tours. Students with financial need may apply for the Emanuel Fenz Scholarship applicable to this program.
- Other spring and summer programs: EMU students may choose from a variety of travel and residence programs that carry credit in such fields as art, biology, business, community practice, education, history and political science. EMU faculty-led programs include such destinations as Ecuador and the Galápagos Islands, Mexico and the Americas, Europe and Asia. Several spring and summer programs are three weeks or less and designed to be especially affordable for EMU students.

**Summer Intensive Language Programs**

Intensive French, Spanish, German and Japanese language programs are available in France, Mexico, Spain, Germany, and Japan, respectively, in settings of cultural immersion. Faculty coordinates additional instruction and provides supervision and cultural exercises. All levels of instruction are available. These programs are offered in cooperation with the Department of World Languages.

**Semester/Year Exchange Programs**

Eastern Michigan University students may attend one of our Exchange Partner schools for one or two semesters for a cost equivalent to that of Eastern Michigan University. Students pay for EMU tuition and fees, plus a modest program fee. The courses taken appear on the EMU transcript as EMU courses. Students may select courses to count towards a major, minor, general education or elective credit.

- United Kingdom exchanges include University of Derby, England, and Oxford-Brookes University, England.
- Other exchange programs include:
  - University of Groningen, Netherlands (English-language courses offered)
  - ESIDEC - Metz, France
  - Karlsruhe University, Germany
  - Reutlingen University of Applied Sciences, Germany
  - Kansai Gaidai University, Japan
• Business majors at EMU may participate in the Regional Area Mobility Program (RAMP) during fall and winter semesters. Courses are taught in the language of the host institution: Spanish at Mexican Universities; English or French at Canadian Universities. Proficiency in the relevant language is required.

• The Japan Center for Michigan Universities (JCMU) in Hikone, Japan, offers Japanese Language and Culture courses open to all majors; no prior knowledge of Japanese is required.

• Affiliated programs include Curtin University of Technology, Australia; Université Catholique de l’Ouest, France.
College of Arts and Sciences

Dean
Tom Venner
411 Pray-Harrold
Phone: 734.487.4344

Associate Dean
Diane Winder
411 Pray-Harrold
Phone: 734.487.4348

Associate Dean
Wade Tornquist
411 Pray-Harrold
Phone: 734.487.4349

Departments and Programs
- African American Studies
- Art
- Biology
- Chemistry
- Communication, Media and Theatre Arts
- Computer Science
- Economics
- English Language and Literature
- Geography and Geology
- History and Philosophy
- Mathematics
- Music and Dance
- Physics and Astronomy
- Political Science
- Psychology
- Sociology, Anthropology and Criminology
- Women and Gender Studies Program
- World Languages

Mission Statement
The College of Arts and Sciences educates students and fosters scholarly and creative activity in the fine and performing arts, the humanities and the social and natural sciences, both applied and theoretical. The liberal arts education in the College embodies the five principles embraced by the general education program: effective communication, quantitative reasoning, knowledge of the disciplines, perspectives on a diverse world and learning beyond the classroom.

Faculty research is integrated into the teaching of the College’s many undergraduate majors and graduate degree programs enhancing student skills in both pure and applied inquiry and preparing students for professional careers and informed citizenship. Scholarly and creative activity of the faculty provides the foundation for the College’s education of students at all levels as well as the foundation for service to the engagement with surrounding communities. The College’s commitment to active, collaborative, interdisciplinary, applied and innovative teachings hinges upon ongoing creativity, curiosity and inquiry in all fields of faculty expertise.

The College seeks to ensure success for all its members, to prepare them for service in local, national and global communities and organizations, and to instill knowledge of and respect for human diversity in all its many manifestations. The College seeks to serve and enrich the local community and the region through its vibrant artistic programs, applied research services and civic and K-12 partnerships.
Graduate Degrees and Certificate Programs

The college offers the following graduate degrees and graduate certificate programs in the various disciplines of arts and sciences. Admission and degree requirements for each program can be found in the departmental sections of this catalog.

**African American Studies**
GRADUATE CERTIFICATE in African American Studies

**Art**
MASTER OF FINE ARTS
MASTER OF ARTS in Art Education
MASTER OF ARTS in Studio Art

**Biology**
MASTER OF SCIENCE in Ecology and Organismal Biology
MASTER OF SCIENCE in Biology — General
MASTER OF SCIENCE in Molecular/Cellular Biology
GRADUATE CERTIFICATE in Water Resources

**Chemistry**
MASTER OF SCIENCE in Chemistry

**Communication, Media and Theatre Arts**
MASTER OF FINE ARTS in Drama/Theatre for the Young
MASTER OF ARTS in Theatre Arts
MASTER OF ARTS in Theatre Arts Administration
MASTER OF ARTS in Communication
MASTER OF ARTS in Interpretation/Performance Studies
MASTER OF ARTS in Drama/Theatre for the Young

**Computer Science**
PROFESSIONAL MASTER OF SCIENCE in Bioinformatics
MASTER OF SCIENCE in Computer Science
GRADUATE CERTIFICATE in Artificial Intelligence
GRADUATE CERTIFICATE in Bioinformatics
SECONDARY TEACHING CERTIFICATE ENDORSEMENT
Double MASTER OF SCIENCE in Computer Science Degree Program with Fachhochschule Karlsruhe, Germany

**Economics**
MASTER OF ARTS in Economics
MASTER OF ARTS in International Economics and Development
MASTER OF ARTS in Health Economics
MASTER OF ARTS in Applied Economics
MASTER OF ARTS in Trade and Development
GRADUATE CERTIFICATE in Public Personnel Management
GRADUATE CERTIFICATE in Public Budget Management
GRADUATE CERTIFICATE in Public Policy Analysis

**English Language and Literature**
MASTER OF ARTS in Children’s Literature
MASTER OF ARTS in Creative Writing
MASTER OF ARTS in English Linguistics
MASTER OF ARTS in Literature
MASTER OF ARTS in Written Communication
GRADUATE CERTIFICATE in Technical Communication

**Geography and Geology**
MASTER OF SCIENCE in Earth Science Education
MASTER OF SCIENCE in Geographic Information Systems
MASTER OF SCIENCE in Urban and Regional Planning
MASTER OF SCIENCE in Historic Preservation — Conservation and Technology
MASTER OF SCIENCE in Historic Preservation — Heritage Interpretation, Tourism and Administration
MASTER OF SCIENCE in Historic Preservation — Preservation Planning
MASTER OF SCIENCE in Historic Preservation — General Science
GRADUATE CERTIFICATE in Geographic Information Systems (GIS) for Educators
GRADUATE CERTIFICATE in Geographic Information Systems (GIS) for Professionals
GRADUATE CERTIFICATE in Historic Preservation
GRADUATE CERTIFICATE in Public Land Planning and Development Management
GRADUATE CERTIFICATE in Water Resources

**History and Philosophy**
MASTER OF ARTS in History
MASTER OF ARTS in Social Science
MASTER OF LIBERAL STUDIES in Social Science and American Culture
GRADUATE CERTIFICATE in State and Local History
ADVANCED GRADUATE CERTIFICATE in State and Local History

**Mathematics**
MASTER OF ARTS in Mathematics
MASTER OF ARTS in Mathematics Education
MASTER OF ARTS in Computer Science
MASTER OF ARTS in Statistics
PROFESSIONAL MASTER OF SCIENCE in Bioinformatics
GRADUATE CERTIFICATE in Bioinformatics

**Music and Dance**
MASTER OF ARTS in Music
MASTER OF ARTS in Music Education

**Physics and Astronomy**
MASTER OF SCIENCE in General Science
MASTER OF SCIENCE in Physics
MASTER OF SCIENCE in Physics Education

**Political Science**
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Public Management
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Health Administration
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Land Planning and Development
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Gerontology
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Human Resource Administration
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Organization Management
MASTER OF PUBLIC ADMINISTRATION (M.P.A.) in Public Safety
GRADUATE CERTIFICATE in Nonprofit Management
GRADUATE CERTIFICATE in Public Personnel Management
GRADUATE CERTIFICATE in Public Budget Management
GRADUATE CERTIFICATE in Public Land Planning and Development Management
GRADUATE CERTIFICATE in Local Government Management
GRADUATE CERTIFICATE in Public Policy Analysis
Psychology
DOCTOR OF PHILOSOPHY in Clinical Psychology
MASTER OF SCIENCE in Clinical Behavioral Psychology
MASTER OF SCIENCE in Clinical Psychology
MASTER OF SCIENCE in General Experimental Psychology Sociology, Anthropology and Criminology
MASTER OF ARTS in Criminology and Criminal Justice
MASTER OF ARTS in Sociology
MASTER OF ARTS in Sociology — Evaluation and Applied Research in Sociology
MASTER OF ARTS in Sociology — Family Specialty
MASTER OF ARTS in Sociology — Schools, Society and Violence
GRADUATE CERTIFICATE in Community Building

Women and Gender Studies Program
MASTER OF ARTS in Women and Gender Studies

World Languages
MASTER OF ARTS in Foreign Language — French
MASTER OF ARTS in Foreign Language — German
MASTER OF ARTS in Foreign Language — Spanish
MASTER OF ARTS in Language and International Trade
MASTER OF ARTS in Spanish Bilingual-Bicultural Education
MASTER OF ARTS in Teaching English to Speakers of Other Languages
GRADUATE CERTIFICATE in Teaching English as a Second Language
BILINGUAL ENDORSEMENT Programs for Certified Teachers (not a degree program)
GRADUATE CERTIFICATE in Hispanic Language and Cultures
GRADUATE CERTIFICATE in German for Business Practices
GRADUATE CERTIFICATE in Japanese for Business Practices
Art Programs

Art

Address: 114 Ford Hall
Phone: 734.487.1268
E-mail: colin.blakely@emich.edu
Web site: www.emich.edu/art

The Department of Art offers the master of fine arts (M.F.A.) and master of arts in art education and in studio art. The M.F.A. program requires a minimum of 60 hours beyond the bachelor’s degree and full-time enrollment each semester. The master of arts programs require a minimum of 30 hours beyond the bachelor’s degree and allow part-time enrollment. Further information may be obtained from the Department of Art.

Students without undergraduate majors in art must complete approximately 30 hours of undergraduate course work in art that is selected in consultation with the graduate coordinator before admission to the graduate program.

Art Programs and Courses

Master's

Master of Arts in Studio Art (SAR)

This degree is designed for persons seeking an advanced degree in studio art.

Admission Requirements

Applicants should see the Graduate Catalog section on admissions for general admission information and procedure (page 10). An undergraduate degree with a major in art and a minimum grade point average of 2.8 in art classes is normally required for admission. A student may be required by the M.A. committee to make up deficiencies at the undergraduate level. Applicants must:

1. Send a department application for admission to the Office of Admissions and graduate coordinator in the Department of Art.
2. Submit three letters of recommendation to the graduate coordinator in the Department of Art.
3. Send to the graduate coordinator in the Department of Art a portfolio of 10-15 color images (slides in a clear plastic holder or full screen size digital images organized in a PowerPoint, PDF, or HTML file on a CD) of the applicant’s studio work, in the concentration to which he/she is applying, with a separate list stating the name, title of work, medium, size and date of completion. (Applicants in three-dimensional disciplines may submit multiple views of examples.)
4. Portfolios and materials must be submitted to the Art Department during the fall semester for winter admission and during the winter semester for spring, summer and fall admission.

Degree Requirements

The graduate adviser will meet with each student to construct a program of study. Students should follow closely the Graduate School requirements for “Application for Diploma.” Students whose degree program includes a final exhibition of work must apply for gallery space one semester prior to the proposed exhibition.

At the end of 10 hours taken in the studio program, the M.A. committee will review the work of each M.A. student and either allow the student to continue or formally ask the student to withdraw from the program. Individual passing grades assigned by a student’s instructor(s) during the first 10 hours in his or her M.A. degree program studio program shall not be construed as a guarantee that any student will be granted continuation in the M.A. program beyond the
initial 10 hours of study in the program, since the 10-hour review by the M.A. committee is based upon a de-novo review of the student’s entire first 10 hours of work in his or her M.A. studio program, electives taken and his or her performance in the 10-hour review. Further, no student may rely on statements by faculty or other agents of the University that would suggest, even remotely, that the student is ensured continued enrollment in the M.A. program prior to a review and recommendation by the M.A. committee.

Course Requirements:

The M.A. in studio art requires the completion of 30 hours of course work to be distributed among program courses, elective courses and cognate courses as follows:

Studio Concentration: 14 hours

Select from the following programs:

- drawing
- graphic design
- painting
- printmaking
- photography
- sculpture
- ceramics
- jewelry
- textiles
- watercolor

Art Elective Course: 10 hours

Ten hours selected from courses outside the major area. (Courses may be grouped to form a minor in consultation with an graduate adviser.)

Cognate Courses: 6 hours

Six hours selected from art and/or other areas in consultation with an adviser. Must include: ART428 Seminar in 20th Century Art (3 hrs) for graduate credit or ART530 Seminar in 20th Century Art (3 hrs).

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Art

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission. Otherwise, you will receive undergraduate credit.

- ART 406 - Printmaking Credit Hours: 3 hrs
- ART 408 - Ceramics Credit Hours: 3 hrs
- ART 409 - Advanced Photographic Imagery Credit Hours: 3 hrs
- ART 410 - Metal Casting Techniques Credit Hours: 3 hrs
- ART 412 - Sculpture Credit Hours: 3 hrs
- ART 413 - Painting Credit Hours: 3 hrs
- ART 414 - Watercolor II Credit Hours: 3 hrs
- ART 419 - Life Drawing Credit Hours: 3 hrs
- ART 421 - History of Asian Art Credit Hours: 3 hrs
- ART 422 - Art of East Asia Credit Hours: 3 hrs
- ART 423 - Watercolor III Credit Hours: 3 hrs
- ART 424 - Watercolor IV Credit Hours: 3 hrs
- ART 425 - Arts of Africa Credit Hours: 3 hrs
- ART 426 - Medieval Art History Credit Hours: 3 hrs
- ART 427 - Baroque Art Credit Hours: 3 hrs
- ART 428 - Seminar in 20th Century Art Credit Hours: 3 hrs
- ART 429 - History of American Architecture Credit Hours: 3 hrs
Master of Arts in Visual Arts Education (VAED)

Model
Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship with in the context of a culturally diverse society. In addition, the master of arts in art education program produces educators who are committed to their ongoing professional growth and are aware of the challenges of democracy in our culturally diverse society. These educators will assert leadership and the ability to cultivate abstract thinking skills and analyze visual statements for personal meaning.

Admission Requirements
Applicants should see the Graduate Catalog section on admissions for general admission information and procedure (page 10). Entry requirements are a minimum of 34 hours of art education and studio art with a minimum 2.8 grade point average in these classes. In addition, each applicant is expected to hold a teaching certificate for the teaching of art.

Prerequisites for admission to the M.A. (VAED) Degree Program:

1. An undergraduate degree in art education and K-12 art certification is normally required. Persons with undergraduate degrees in areas other than art must complete the for the 54-hour art major and additional certification requirements prior to submitting an application to the M. A. (VAED) degree program.

2. A portfolio of 10-15 images (slides in a clear plastic folder for full screen size digital images organized in a PowerPoint, PDF, or HTML file on a CD) of the applicant’s studio work and/or of students’ work with a separate list stating title, medium, size, and date of completion for each image for each image submitted.

3. A letter of intent (regarding the applicant’s reasons for pursuing studies in a graduate art education program), a 1-2 page statement of the applicant’s teaching philosophy, a 1-2 page statement of the applicant’s research interests, and three letters of reference.


Admissions procedures are as follows:

1. Submission of the University’s application along with a copy of the applicant’s teaching certificate and other requested materials to the University’s Office of Admissions.

2. Submission of a department application, portfolio, letter of intent, statements of a teaching philosophy and research interests, and three letters of reference to the Art Department’s graduate coordinator.

3. Review and evaluation of the applicant’s materials by both the Office of Admissions and the Art Department’s Graduate Admissions Committee.

4. Notification to the candidate of the Committee’s decision.

The terms presented in this document are intended to cover basic aspects of the Master of Arts (VAED) degree program and to clarify procedures for candidates seeking admission to or currently enrolled in the program. All M.A. (VAED) degree program participants (advisers, instructors, and students) are obligated to familiarize themselves with program expectations. The graduate coordinator welcomes any questions from advisers, instructors, student
candidates, or those seeking admission with respect to these guidelines and/or any other aspect of the M. A. (VAED) degree program.

The M. A. (VAED) degree program is designed for those persons who have completed their Art K-12 (LQ) Secondary Provisional certification and are currently teaching art at the K-12 levels. This information can also be found at the University’s website via catalog copy, at the Art Department’s website [www.emich.edu/art] under “graduate studies”, and/or at the Art Department’s art education website.

Degree Requirements
The graduate coordinator will meet with each student to construct a program of study. Students should follow closely the Graduate School requirements for “Application for Diploma.” Students whose degree program includes a final exhibition of work must apply for gallery space one semester prior to the proposed exhibition. Graduate credit in art education (theory and practice) earned more than six years prior to the date on which the degree was granted may not be applied to meet the graduate requirements.

After the student has completed six hours of course work in art education, the graduate coordinator or program adviser will evaluate for approval the selection of a thesis proposal or paper option in an appropriate art eduction area. A required thesis review will be conducted by a faculty committee.

Course Requirements:
The M.A. (VAED) requires the completion of 30 hours of course work to be distributed among required courses, elective courses and cognate courses as follows:

Art Education Courses: 9 hours

Students take one course in each of the following sections:

Research Methods

- ART 508 - Research in Visual Arts Education Credit Hours: 3 hrs
- ART 514 - Tradition and Innovation in Visual Arts Education Credit Hours: 3 hrs
- ART 513 - Technology, Research and Teaching Visual Arts Credit Hours: 3 hrs
- ART 512 - Seminar in Visual Arts Education Credit Hours: 3 hrs

History of Visual Arts Education

- ART 505 - New Ideas in Visual Art Education Credit Hours: 3 hrs
- Art History courses approved 400 and above

Curriculum, Teaching Studio & Technology Applications

- ART 512 - Visual Culture and Postmodernism Credit Hours: 3 hrs
- ART 516 - Teaching Art from Multiple Perspectives Credit Hours: 3 hrs
- ART 694 - Seminar in Visual Arts Education Credit Hours: 3 hrs

Art History, Art Criticism and Aesthetics: 6 hours

Students take one course in each of the following sections:

Art History

Art History courses approved 400 and above the 400 level Non-Western Art History course approved 400 and above 400 level.*

*Required for students who are working toward Visual Arts Education Specialist (LZ) Endorsement.

Art Criticism and Aesthetics

- ART 512 - Visual Culture and Postmodernism Credit Hours: 3 hrs
- ART 694 - Seminar in Visual Arts Education Credit Hours: 3 hrs

Student Art Courses approved 400 and above 400 level: 12 credits

Students select four courses from the following:

Two-Dimensional
Three-Dimensional
  - Sculpture
  - Jewelry
  - Ceramics
  - Textiles

Thesis or Exam: 4 hours

Students select either:

Thesis Track

- ART 691 - Thesis Credit Hours: 2 hrs
  This course must be taken twice to fulfill the thesis option.

Exam Track

- One additional class in any area of VAE program (3 hrs)
- ART 597 - Independent Study Credit Hours: 1 hr
  or

- ART 697 - Independent Study Credit Hours: 1 hr

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Art

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission. Otherwise, you will receive undergraduate credit.

- ART 406 - Printmaking Credit Hours: 3 hrs
- ART 408 - Ceramics Credit Hours: 3 hrs
- ART 409 - Advanced Photographic Imagery Credit Hours: 3 hrs
- ART 410 - Metal Casting Techniques Credit Hours: 3 hrs
- ART 412 - Sculpture Credit Hours: 3 hrs
- ART 413 - Painting Credit Hours: 3 hrs
- ART 414 - Watercolor II Credit Hours: 3 hrs
- ART 419 - Life Drawing Credit Hours: 3 hrs
- ART 421 - History of Asian Art Credit Hours: 3 hrs
- ART 422 - Art of East Asia Credit Hours: 3 hrs
- ART 423 - Watercolor III Credit Hours: 3 hrs
- ART 424 - Watercolor IV Credit Hours: 3 hrs
- ART 425 - Arts of Africa Credit Hours: 3 hrs
- ART 426 - Medieval Art History Credit Hours: 3 hrs
- ART 427 - Baroque Art Credit Hours: 3 hrs
- ART 428 - Seminar in 20th Century Art Credit Hours: 3 hrs
- ART 429 - History of American Architecture Credit Hours: 3 hrs
- ART 430 - Mesoamerican Art Credit Hours: 3 hrs
- ART 432 - Drawing III Credit Hours: 3 hrs
Master of Fine Arts (M.F.A.)(SARF)

Admission Requirements
Applicants should see the section on admissions for general admission information and procedure (page 10). Applicants for admission to the M.F.A. degree program must have an undergraduate degree, with a major in art or approximately 30 hours of undergraduate course work in art through an accredited institution; meet degree admission standards of the Graduate School; and

1. Send an application for admission to the Office of Admissions and coordinator of the M.F.A. program in the Department of Art.
2. Submit three letters of recommendation to the graduate program coordinator in the Department of Art.
3. Send to the graduate coordinator in the Department of Art a brief statement which concisely expresses the applicant’s goals and objectives as an artist/designer and the reason(s) for pursuing graduate study. The statement should also reference the artwork submitted and clarify how it’s content pertains to the applicant’s objectives/goals. It should be no longer than one-page, 12-point typed and double spaced.
4. Send to the graduate coordinator in the Department of Art a portfolio of 10-15 images (slides in a clear plastic holder or full screen size digital images organized in a PowerPoint, PDF, or HTML file on a CD) of the applicants studio work, in the concentration to which he/she is applying, with a separate list stating title, medium, size and date of completion for each image submitted. (Applicants in three-dimensional disciplines may submit multiple views of examples.)

Applications received in the Department of Art by February 15 for fall semester and by October 1 for winter semester will be given priority. Late applications will be considered as studio space permits. Please consult the Graduate School section of this catalog for application deadlines.

Degree Requirements
The graduate coordinator will meet with each student to construct a program of study. Students should follow closely the Graduate School requirements for “Application for Diploma.” Students whose degree program includes a final exhibition of work must apply for gallery space one semester prior to the proposed exhibition. Two years of residency (full-time enrollment) are required; exceptions may be made to this requirement with the approval of the student’s adviser and the M.F.A. committee.

At the end of the first year, the M.F.A. committee will review the work of each M.F.A. student and either allow the student to continue or formally ask the student to withdraw from the program. Individual passing grades assigned by a student’s principal adviser or other faculty during the first full year of enrollment in the M.F.A. program shall not be construed as a guarantee that any student will be granted continuation in the M.F.A. program beyond the initial first year of study, since the mid-program review by the M.F.A. committee is based upon a de-novo review of the student’s entire first year of M.F.A. work and his or her performance in the midprogram review. Further, no student may rely on statements by faculty or other agents of the University that would suggest, even remotely, that the student is ensured continued enrollment in the M.F.A. program prior to a review and recommendation by the M.F.A. committee.

Course Requirements:
The M.F.A. requires the completion of 60 hours of course work to be distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 42 hours

- ART 630 - Graduate Studio Credit Hours: 6 hrs
- ART 631 - Graduate Studio Credit Hours: 6 hrs
- ART 695 - Theory in Art Credit Hours: 3 hrs each
- ART 696 - Seminar in Contemporary Art Credit Hours: 3 hrs each
- ART 732 - Graduate Studio Credit Hours: 6 hrs
- ART 733 - Graduate Thesis Exhibition and Oral Defense Credit Hours: 6 hrs
- ART 734 - Critique and Professional Preparation Seminar Credit Hours: 3 hrs

The following course must be repeated for a total of: 12 hours

Eleven hours selected from courses outside the major are. Courses may be grouped to form a minor in consultation with an adviser.

- Art elective courses (6 hrs)
- Art History elective courses (6 hrs)

Elective Courses: 12 hours

Cognate Courses: 6 hours

Six hours selected from art or other areas in consultation with an adviser.

Program Total: 60 hours

Undergraduate Courses for Graduate Credit: Art

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission. Otherwise, you will receive undergraduate credit.

- ART 406 - Printmaking Credit Hours: 3 hrs
- ART 408 - Ceramics Credit Hours: 3 hrs
- ART 409 - Advanced Photographic Imagery Credit Hours: 3 hrs
- ART 410 - Metal Casting Techniques Credit Hours: 3 hrs
- ART 412 - Sculpture Credit Hours: 3 hrs
- ART 413 - Painting Credit Hours: 3 hrs
- ART 414 - Watercolor II Credit Hours: 3 hrs
- ART 419 - Life Drawing Credit Hours: 3 hrs
- ART 421 - History of Asian Art Credit Hours: 3 hrs
- ART 422 - Art of East Asia Credit Hours: 3 hrs
- ART 423 - Watercolor III Credit Hours: 3 hrs
- ART 424 - Watercolor IV Credit Hours: 3 hrs
- ART 425 - Arts of Africa Credit Hours: 3 hrs
- ART 426 - Medieval Art History Credit Hours: 3 hrs
- ART 427 - Baroque Art Credit Hours: 3 hrs
- ART 428 - Seminar in 20th Century Art Credit Hours: 3 hrs
- ART 429 - History of American Architecture Credit Hours: 3 hrs
- ART 430 - Mesoamerican Art Credit Hours: 3 hrs
- ART 432 - Drawing III Credit Hours: 3 hrs
- ART 436 - Women in Art Credit Hours: 3 hrs
- ART 439 - Life Drawing Credit Hours: 3 hrs
- ART 440 - Art Since 1945 Credit Hours: 3 hrs
- ART 443 - Jewelry Credit Hours: 3 hrs
• ART 455 - Advanced Textiles Credit Hours: 3 hrs
• ART 456 - Color, Dye and Fiber Credit Hours: 3 hrs
• ART 460 - Advanced Graphic Design Credit Hours: 3 hrs
• ART 462 - Image Making II Credit Hours: 3 hrs
• ART 464 - Advanced Graphic Design Workshop Credit Hours: 3 hrs
• ART 480 - Painting Credit Hours: 3 hrs
• ART 481 - Painting Credit Hours: 3 hrs
• ART 487 - Cooperative Education in Art Credit Hours: 3 hrs
Biology Programs

Biology

Address: 316 Mark Jefferson
Phone: 734.487.4242
Web site: www.emich.edu/biology

The Department of Biology offers programs leading to the master of science degree in general biology, ecology and organismal biology and molecular/cellular biology. Applicants are encouraged to apply for a graduate assistantship, because the experience in teaching or research is a valuable part of the graduate program in biology. The master of science in general science is administered by the Department of Physics and Astronomy and includes some work in biology. For further information on the general science program, consult the Department of Physics and Astronomy section in this catalog.

The Department of Biology is located in the Mark Jefferson Science Building. This building houses laboratories and classrooms, an electron microscopy and photo-micrography suite, a molecular biology research suite, controlled-environment chambers, a walk-in cold room, animal-care rooms and botanical and zoological museums. Other on-campus resources include a Terrestrial and Aquatic Ecology Research Facility, which includes aquaria and greenhouses, and the Loesell Field Laboratory. The Huron River and near by state game and recreation areas, as well as the Kresge Environmental Education Center at Lapeer, Michigan, are also accessible for field work. Vans and boats are available for use by classes or in research.

Graduate Programs and Courses

Graduate Certificate

Graduate Certificate in Water Resources (WTRS)

Course Requirements:

The graduate certificate in water resources requires the completion of 17 hours of course work to be distributed among required courses as follows:

Required Courses: 17 hours

- BIO 510 - Limnology Credit Hours: 3 hrs
- BIO 513 - Wetland Ecosystems Credit Hours: 3 hrs
- GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
- GEOG 678 - Advanced Applications of GIS Credit Hours: 3 hrs

One course from the following:

- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs

One course from the following:

- BIO 697 - Independent Study Credit Hours: 1 hr
- BIO 698 - Independent Study Credit Hours: 2 hrs

Certificate Total: 17 hours
Undergraduate Courses for Graduate Credit: Biology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Biology

- BIO 406 - The Nature of Science Credit Hours: 1 hr
- BIO 412 - Biogeography Credit Hours: 2 hrs
- BIO 415 - Microbial Ecology Credit Hours: 3 hrs
- BIO 459 - Mycology Credit Hours: 3 hrs
- BIO 460 - Plant Anatomy Credit Hours: 3 hrs
- BIO 461 - Plant Physiology Credit Hours: 3 hrs
- BIO 462 - Plant Biotechnology Credit Hours: 3 hrs
- BIO 473 - Concepts in Animal Physiology Credit Hours: 3 hrs
- BIO 474 - Comparative Anatomy of Vertebrates Credit Hours: 4 hrs

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
- GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
- ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs
Master's

Master of Science in Biology - General (BIOG)

Adviser: Allen Kurta, PhD.
316 Mark Jefferson
734.486.1174
allen.kurta@emich.edu

This program provides students with the opportunity to design a master of science program that meets their unique needs. As such, it is able to accommodate students with a wide range of backgrounds and career goals. It may be particularly suitable in providing additional background in biology for secondary teachers, preparing a broad background for students interested in community college teaching, and for students intent on entering into other professional careers.

Course Requirements:

This concentration in general biology requires a minimum of 30 credit hours for thesis students and 34 credit hours for nonthesis students. As many as six hours may be taken outside of the Department of Biology as cognates. All courses in the program of study must be approved by the student's guidance committee.

Required Courses: 2-8 hours

- BIO 501 - Proposal Development in Biology Credit Hours: 1 hr
- BIO 502 - Seminar in Biology Credit Hours: 1 hr

Thesis students must select a minimum of six hours of research:

- BIO 690 - Thesis Credit Hours: 1 hr
- BIO 691 - Thesis Credit Hours: 2 hrs
- BIO 692 - Thesis Credit Hours: 3 hrs
- BIO 697 - Independent Study Credit Hours: 1 hr
- BIO 698 - Independent Study Credit Hours: 2 hrs
- BIO 699 - Independent Study Credit Hours: 3 hrs

Restricted Elective Course: 22-32

22 to 32 credit hours selected in consultation with the graduate adviser.

Cognate Courses: 0-6 hours

Up to six hours selected in consultation with the graduate adviser.

Program Total: 30-34 hours

Undergraduate Courses for Graduate Credit: Biology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Biology
Master of Science in Biology Programs

Degree Admission
All concentrations in the biology master’s program share the same general requirements for admission:
1. Obtain a baccalaureate from an accredited institution;
2. At least 20 hours in biology, with courses in genetics and physiology;
3. One year of general chemistry;
4. One year of organic chemistry, or one semester of organic chemistry and one semester of biochemistry;
5. One year of basic physics;
6. One semester of calculus or statistics;
7. An academic record of B (3.0) or better during the junior and senior years;
8. Submission to the Office of Graduate Admissions of a completed departmental admission form, two letters of recommendation and a personal statement;
9. Submission to the Office of Graduate Admissions scores from the Graduate Record Examinations (GRE) general test (subject test not required); and
10. Meet admission requirements of the Graduate School.

Additional requirements for admission are stipulated for the ecology and organismal biology and cellular/molecular programs and are indicated under the descriptions of those programs.

Conditional Admission
Students deficient in a requirement for degree admission to any of the programs may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Degree Requirements
At least 30 hours of approved graduate-level work is required, including a minimum of 24 hours within the Department of Biology. To ensure scheduling of appropriate research experiences, internships and specialized course work, students must, by the end of their first semester, formulate a specific program of study in consultation with their faculty guidance committee. After approval, this program is kept on file by the graduate coordinator and may not be changed without written approval of the guidance committee.

In addition to the common requirements, students must opt for one of two alternative degree plans: thesis or nonthesis.

Thesis: This plan is most appropriate for students intending on a research career in biology. A candidate completes an original investigation under the supervision of a guidance (thesis) committee. This research must be suitable for publication, written in a form acceptable to the Graduate School and defended in an oral examination. The plan requires a minimum of 30 credit hours including a minimum of six credit hours and a maximum of 10 credit hours in research (thesis and independent study). A maximum of six hours may be earned in BIO 690/691/692 Thesis for thesis research.

Nonthesis: This plan is most appropriate for students intending on a professional career that does not emphasize research or interested in obtaining a broader understanding of biological theory. All students in this plan must complete 34 credit hours of coursework. All candidates are encouraged to include research or practical experiences by enrolling for three hours in either Cooperative Education in Biology (BIO 595), Practicum (BIO 686/687/688) or Independent Study (BIO 697/698/699).

Advising
Upon admission to the biology program, students will receive initial advising from the graduate coordinator, the
principal adviser in their selected concentration, or the departmental graduate committee. Students are responsible for forming a permanent guidance committee and developing a program of study approved by that committee before registering for their second semester. After the first semester, if no program of study is on file, the guidance committee is not obligated to include any unapproved courses taken as part of the student’s final program. The guidance committee for Thesis students will include at least three faculty members from the Department of Biology. The student usually selects the chair of the committee, and the other two members are chosen by the chair in consultation with the student. Additional members of the committee may be added from inside or outside the department by agreement between the chair and the student. The guidance committee for Nonthesis students will consist of the principal graduate adviser for the selected concentration and the graduate coordinator. The graduate adviser, in consultation with the student, will prepare the student’s program, which must be approved by the graduate coordinator. The student may select a third member of the guidance committee from faculty within the Department of Biology.

**Master of Science in Ecology and Organismal Biology (ECSY)**

The master of science in ecology and organismal biology prepares students for research and teaching careers in such fields as aquatic ecology, terrestrial ecology, evolutionary biology, behavioral ecology and physiological ecology. It provides background for students entering doctoral programs in diverse areas of plant, animal and microbial ecology. It also prepares research personnel for careers with government agencies or private companies concerned with the protection or management of aquatic and terrestrial ecosystems. The program stresses the development of research skills, taxonomic expertise, field and laboratory methods and their application to both theoretical and applied ecology.

**Course Requirements:**

This concentration in ecology and organismal biology requires a minimum of 30 credit hours for thesis students and 34 credit hours for nonthesis students. As many as six hours may be taken outside of the Department of Biology as cognates. All courses in the program of study must be approved by the student’s guidance committee.

**Required Courses: 5-11 hours**

- BIO 501 - Proposal Development in Biology Credit Hours: 1 hr
- BIO 502 - Seminar in Biology Credit Hours: 1 hr
- BIO 509 - Statistics for Biologists Credit Hours: 3 hrs

Thesis students must select a minimum of six hours of research:

- BIO 690 - Thesis Credit Hours: 1 hr
- BIO 691 - Thesis Credit Hours: 2 hrs
- BIO 692 - Thesis Credit Hours: 3 hrs
- BIO 697 - Independent Study Credit Hours: 1 hr
- BIO 698 - Independent Study Credit Hours: 2 hrs
- BIO 699 - Independent Study Credit Hours: 3 hrs

**Restricted Elective Courses: 8-14 hours**

Thesis students must select a minimum of three and nonthesis students must select a minimum of five from the following:

- BIO 412 - Biogeography Credit Hours: 2 hrs
- BIO 510 - Limnology Credit Hours: 3 hrs
- BIO 511 - Animal Physiological Ecology Credit Hours: 3 hrs
- BIO 513 - Wetland Ecosystems Credit Hours: 3 hrs
- BIO 514 - Terrestrial Ecosystems Credit Hours: 3 hrs
- BIO 557 - Aquatic Plants Credit Hours: 3 hrs

**Elective Courses: 11-15 hours**
Elective courses to be selected in consultation with a graduate adviser. Nonthesis students must include a minimum of two taxonomic field courses, as listed in the Graduate Catalog.

Cognate Courses: 0-6 hours

Up to six credit hours selected in consultation with graduate adviser.

Program Total: 30-34 hours

Undergraduate Courses for Graduate Credit: Biology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Biology

- BIO 406 - The Nature of Science Credit Hours: 1 hr
- BIO 412 - Biogeography Credit Hours: 2 hrs
- BIO 415 - Microbial Ecology Credit Hours: 3 hrs
- BIO 459 - Mycology Credit Hours: 3 hrs
- BIO 460 - Plant Anatomy Credit Hours: 3 hrs
- BIO 461 - Plant Physiology Credit Hours: 3 hrs
- BIO 462 - Plant Biotechnology Credit Hours: 3 hrs
- BIO 473 - Concepts in Animal Physiology Credit Hours: 3 hrs
- BIO 474 - Comparative Anatomy of Vertebrates Credit Hours: 4 hrs

Master of Science in Molecular/Cellular Biology (MCBI)

This program prepares students to pursue research and teaching careers in molecular and cellular biology. In addition to the general requirements stated for admission to the Master of Science in Biology stated above, this concentration requires the following for admission:

1. One year of general biology or equivalent (replaces twenty hours in biology);
2. A course in genetics and a course in physiology; and
3. A course in biochemistry with laboratory

If a statistics course was not previously taken, then BIO509 Statistics for Biologists must be taken as part of the program of study. A course in physical chemistry and a course in microbiology are highly recommended.

Course Requirements:

The concentration in molecular/cellular biology requires a minimum of 30 credit hours for thesis students and 34 credit hours for nonthesis students. As many as six hours may be taken outside of the Department of Biology as cognates. All courses in the program of study must be approved by the student’s guidance committee.

Required Courses: 11-17 hours

- BIO 501 - Proposal Development in Biology Credit Hours: 1 hr
- BIO 502 - Seminar in Biology Credit Hours: 1 hr
- BIO 526 - Immunobiology Credit Hours: 3 hrs
- BIO 540 - Cell Biology Credit Hours: 3 hrs
- BIO 542 - Molecular Genetics Credit Hours: 3 hrs

Thesis students must select a minimum of six hours of research:
• BIO 690 - Thesis Credit Hours: 1 hr
• BIO 691 - Thesis Credit Hours: 2 hrs
• BIO 692 - Thesis Credit Hours: 3 hrs
• BIO 697 - Independent Study Credit Hours: 1 hr
• BIO 698 - Independent Study Credit Hours: 2 hrs
• BIO 699 - Independent Study Credit Hours: 3 hrs

Restricted Elective Courses: 13-23 hours

13 to 23 credit hours selected in consultation with the graduate adviser. At least five hours must include research methodology courses.

Cognate Courses: 0-6 hours

Up to six credit hours selected in consultation with graduate adviser.

Program Total: 30-34 hours

Undergraduate Courses for Graduate Credit: Biology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Biology

• BIO 406 - The Nature of Science Credit Hours: 1 hr
• BIO 412 - Biogeography Credit Hours: 2 hrs
• BIO 415 - Microbial Ecology Credit Hours: 3 hrs
• BIO 459 - Mycology Credit Hours: 3 hrs
• BIO 460 - Plant Anatomy Credit Hours: 3 hrs
• BIO 461 - Plant Physiology Credit Hours: 3 hrs
• BIO 462 - Plant Biotechnology Credit Hours: 3 hrs
• BIO 473 - Concepts in Animal Physiology Credit Hours: 3 hrs
• BIO 474 - Comparative Anatomy of Vertebrates Credit Hours: 4 hrs
Chemistry Programs

Chemistry

Address: 225 Mark Jefferson
Phone: 734.487.0106
Web site: http://www.emich.edu/public/chemistry

Chemistry Programs and Courses

Master's

Master of Science in Chemistry (CHM)

Adviser: Tim Brewer, PhD
225 Mark Jefferson
734.487.9613
tbrewer@emich.edu

This program provides advanced study in chemistry for individuals who are currently employed in chemistry-related industrial or governmental positions, or desire professional training before entering the job market or a doctoral program.

Admission Requirements
1. An undergraduate degree with a major or a strong minor (approximately 25 hours) in chemistry.
2. Advanced undergraduate courses corresponding to CHEM 371/373, CHEM 361 or CHEM 461, CHEM 463/465 and CHEM 481, along with either CHEM 432 or CHEM 451/452. The graduate coordinator may use examinations to ascertain competency and the need for remedial work in any deficient areas. A maximum of four credit hours of graduate credit will be allowed for courses taken to correct deficiencies.
3. One year of calculus-based college physics (PHY 223, PHY 224), linear algebra and calculus through multivariable calculus.
4. Satisfaction of the Graduate School’s admission requirements.
5. Submission of Graduate Record Examinations (GRE) general test scores.

Degree Requirements
Students in this program follow either the Thesis Plan or the Non-Thesis Plan. Each includes a research seminar and a research experience, a course in chemical literature and four courses to satisfy distribution requirements, and additional courses to complete the stated minimum number of hours.

Thesis Plan
Thesis plan students must submit a written thesis based on original research; an oral presentation of the research to the Department of Chemistry is required. A maximum of 10 hours of CHEM 697/698/699 Research in Chemistry (1/2/3 hrs) may be used toward thesis.

Non-Thesis Plan
This plan requires satisfactory completion of a minimum of 34 hours of graduate credit. It is intended for the part-time student whose professional experience constitutes a reasonable substitute (as determined by the graduate committee) for the laboratory research of the thesis plan.

Course Requirements:
The M.S. in chemistry requires the completion of 30 to 34 hours of course work to be distributed among required courses, distribution requirement courses, elective courses, a research requirement and cognate courses as follows:

Required Courses: 2 hours

- CHEM 610 - Information Retrieval in Chemistry Credit Hours: 1 hr
- CHEM 693 - Seminar in Chemistry Credit Hours: 1 hr

Distribution Requirement Courses: 8-12 hours

Select at least one course from four of the following six areas of chemistry (courses are listed below). A grade point average of B or better in all distribution courses is required.

I. Analytical

- CHEM 581 - Advanced Analytical Chemistry Credit Hours: 3 hrs

II. Inorganic

- CHEM 632 - Structural Inorganic Chemistry Credit Hours: 3 hrs

III. Organic

- CHEM 571 - Advanced Organic Chemistry Credit Hours: 3 hrs
- CHEM 574 - Advanced Organic Chemistry Topics Credit Hours: 2 hrs

IV. Physical

- CHEM 561 - Quantum Chemistry and Spectroscopy Credit Hours: 2 hrs
- CHEM 562 - Statistical Mechanics and Chemical Kinetics Credit Hours: 2 hrs

V. Biochemistry:

- CHEM 554 - Protein Structure and Function Credit Hours: 2 hrs
- CHEM 555 - Neurochemistry Credit Hours: 3 hrs
- CHEM 655 - Advanced Biochemistry Topics Credit Hours: 2 hrs

IV. Polymer

- CHEM 665 - Physical Chemistry of Polymers Credit Hours: 2 hrs
- CHEM 675 - Advanced Organic Polymer Chemistry Credit Hours: 3 hrs

Elective Courses: 6-20 hours

Six to 20 hours selected from among graduate courses at the 500- or 600-level, or from approved 400-level CHEM courses. Courses are selected in consultation with the graduate coordinator and student’s thesis research director.

Research Requirement: 6-10 hours

Thesis Plan:

An approved written thesis and an oral presentation of the research to the Department of Chemistry is required.

- CHEM 697 - Research in Chemistry Credit Hours: 1 hr
- CHEM 698 - Research in Chemistry Credit Hours: 2 hrs
- CHEM 699 - Research in Chemistry Credit Hours: 3 hrs

Non-Thesis Plan

Students must complete a satisfactory written report, in thesis style, on a project carried out in the student’s job in the off-campus setting. Industrial research experience must be judged by the department head and the graduate committee to be a reasonable substitute for a typical academic research project. Students will also present to the chemistry faculty a seminar that meets the standards for the research seminar set out in the department’s Graduate Student Handbook.

Cognate Courses: 0-6 hours
Zero to six hours selected from courses outside the Department of Chemistry in consultation with the graduate coordinator. Cognates chosen from 400-level courses will be included in the nine-hour limit.

Program Total: 30-34 hours

Undergraduate Courses for Graduate Credit: Chemistry

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate course for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHEM 411 - Toxicology I Credit Hours: 2 hrs
- CHEM 412 - Toxicology II Credit Hours: 3 hrs
- CHEM 413 - Toxicology Laboratory Credit Hours: 2 hrs
- CHEM 415 - Environmental Chemistry Credit Hours: 3 hrs
- CHEM 432 - Advanced Inorganic Chemistry Credit Hours: 3 hrs
- CHEM 433 - Inorganic-Organic Synthesis Laboratory Credit Hours: 2 hrs
- CHEM 451 - Biochemistry I Credit Hours: 3 hrs
- CHEM 452 - Biochemistry II
- CHEM 453 - Biochemistry Laboratory Credit Hours: 2 hrs
- CHEM 465 - Quantum and Statistical Mechanics
- CHEM 475 - Introduction to Polymer Chemistry Credit Hours: 3 hrs
- CHEM 481 - Instrumental Analysis Credit Hours: 4 hrs
- CHEM 485 - Introduction to Radiotracer Techniques Credit Hours: 2 hrs
- CHEM 487 - Cooperative Education in Chemistry Credit Hours: 1 hr
- CHEM 488 - Cooperative Education in Chemistry Credit Hours: 2 hrs
- CHEM 489 - Cooperative Education in Chemistry Credit Hours: 3 hrs
Communication and Theatre Arts Programs

Communication, Media and Theatre Arts

Address: 124 Quirk
Phone: 734.487.3131
E-mail: dennis.beagen@emich.edu
Web site: www.emich.edu/public/cta/

The Department of Communication, Media and Theatre Arts provides graduate programs leading to the degrees of master of fine arts in drama/theatre for the young, master of arts in arts administration, master of arts in communication, master of arts in theatre arts and master of arts in drama/theatre for the young. Details of each of these programs may be obtained from the department or coordinator of advising.

Objectives
1. Advancing students' mastery of their creative areas of specialization.
2. Enabling students to acquire and apply essential research tools.
3. Preparing students for careers and further study.

The department awards graduate assistantships to students with strong backgrounds in communication and/or theatre arts and an overall undergraduate GPA of at least 3.0. Graduate assistants help teach the Fundamentals of Speech courses or assist with co-curricular programs in communication, drama/theatre for the young, interpretation/performance studies or theatre arts.

Communication, Media and Theatre Arts Programs and Courses

Master's

Master of Arts in Arts Administration (THAD)

Arts Management Program

Adviser: Kenneth Stevens, MA
103 Quirk Hall
Phone: 734.487.1220
Fax: 734.487.3443
ken.stevens@emich.edu

Web sites:
www.emich.edu/public/cta/umed
www.artsadministration.org
www.emich.edu/cta

This program was established in 1985 to prepare students for assuming administrative positions with performing and visual arts organizations. It provides students who have considerable experience in the arts with knowledge and understanding of the arts business, its governance, management, marketing and finance. The program includes study in both the College of Arts and Sciences and the College of Business to equip students with managerial and aesthetic skills that enable them to assume leadership positions as planners, advocates, administrators and community organizers.
Students develop research skills that enable them to gather, organize and analyze information and apply the knowledge to problem solving in a wide variety of circumstances. Emphasis is placed on promoting the interrelated nature of the arts in support of interdisciplinary and collaborative programming that recognizes the relationship of the arts with other areas of human endeavor.

Admission Requirements
Applicants must:
1. Meet the Graduate School admission requirements and be accepted into the program by the department;
2. Have at least a minor or the equivalent in communication, arts or business;
3. Have a minimum overall undergraduate GPA of 2.75 in the last half of undergraduate work; and
4. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements
Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;
2. Successfully meet all conditions stipulated upon entry into the program; and
3. Complete, with an overall GPA of at least 3.0, a minimum of 30 hours of approved course work as identified in the official program of study.

Curriculum
Arts administration is a 30-36 credit hour program of study individually designed to complement the educational and professional experience of each student. Each program of study is developed in close consultation with a program adviser to insure multidisciplinary experience and provide a high level of proficiency in four essential areas.

- Arts Administration - Core classes include Arts Management, Law Public Policy and the Arts, Marketing the Arts with additional classwork in Arts Advocacy, Event Planning, Grant and Proposal Writing, Fundraising and Community Cultural Development. Credit for professional experience is awarded through the Co-op education program.
- Business - Classes in the College of Business include Marketing, Organizational Theory and Behavior, Accounting, Not-for-profit Accounting.
- Communication and Leadership - Students prepare to assume leadership through classes in negotiation skills and organizational communication.
- Scholarly Research - Includes specific classwork and a thesis/terminal project.

The program is designed to serve both the working professional and the traditional full time student with most classes offered in the evenings and on weekends.

Additional information is available at www.artsadministration.org, the Association of Arts Education Administrators.

Course Requirements:

The M.A. in theatre arts administration requires the completion of 30 hours of course work to be distributed among required courses and elective courses as follows:

Required Courses: 3-5 hours
- CTAR 677 - Research Techniques Credit Hours: 2 hrs

One course from the following:
- CTAR 690 - Degree Requirement Credit Hours: 1 hr
- CTAR 691 - Degree Requirement Credit Hours: 2 hrs
- CTAR 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 25-27 hours

Twenty-five to 27 hours selected from within the department in consultation with the graduate adviser.
Cognate Courses: 0-9 hours

Zero to nine hours selected from other areas or departments.

Program Total: 30-36 hours

Undergraduate Courses for Graduate Credit: Communication, Media and Theatre Arts

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Additional 400-level undergraduate courses also are available to graduate students under special circumstances. On this matter the student should have a clear understanding with the department and the Graduate School before expecting to use such courses toward a master of arts or a master of fine arts in the Department of Communication, Media and Theatre Arts.

Activity Courses:

- CTAA 466 - Forensics Credit Hours: 1 hr
- CTAA 467 - Theatre Practice Credit Hours: 1 hr
- CTAA 468 - Interpretation Credit Hours: 1 hr
- CTAA 479 - Special Topics Credit Hours: 3 hrs

Communication:

- CTAC 440 - Public Discourse Analysis Credit Hours: 3 hrs
- CTAC 460 - Theories of Speech Criticism Credit Hours: 3 hrs
- CTAC 475 - Research in Speech Communication Credit Hours: 3 hrs
- CTAC 485 - Communication Theory Credit Hours: 3 hrs

Interpretation/Performance Studies:

- CTAO 402 - Voice Development Credit Hours: 1 hr
- CTAO 404 - Dynamic Speaking Skills Credit Hours: 3 hrs
- CTAO 405 - Voice and Dialects Credit Hours: 3 hrs
- CTAO 410 - Oral Interpretation of Shakespeare Credit Hours: 3 hrs
- CTAO 411 - Advanced Problems in Interpretation Credit Hours: 3 hrs
- CTAO 412 - Oral Interpretation of Poetry Credit Hours: 3 hrs

Theatre and Drama:

- CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
- CTAR 450 - History of the Theatre to 1642 Credit Hours: 3 hrs
- CTAR 451 - History of the Theatre 1642 to Present Credit Hours: 3 hrs
- CTAR 452 - Arts Management Credit Hours: 3 hrs
- CTAR 453 - Marketing the Arts Credit Hours: 3 hrs
- CTAR 454 - Law, Public Policy and the Arts Credit Hours: 3 hrs
- CTAR 457 - Auditions Credit Hours: 2 hrs
- CTAR 458 - Acting/Directing/Production Intensive I Credit Hours: 3 hrs
- CTAR 459 - Acting/Directing/Production Intensive Credit Hours: 2 hrs
- CTAR 461 - Musical Theatre Acting Credit Hours: 2 hrs
- CTAR 462 - Directors on Directing Credit Hours: 2 hrs
- CTAR 463 - The American Musical Stage Credit Hours: 3 hrs
- CTAR 464 - Style for the Actor Credit Hours: 3 hrs

Telecommunication and Film:
• CTAT 431 - Advanced Radio Production and Direction Credit Hours: 3 hrs  
• CTAT 432 - Advanced Television Production and Direction Credit Hours: 3 hrs  
• CTAT 445 - Film Theory and Criticism Credit Hours: 3 hrs  
• CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs  
• CTAT 447 - Radio-Television Station Management Credit Hours: 3 hrs  

Master of Arts in Communication (COMM)

Adviser: Dennis Patrick, PhD  
123 Quirk Hall  
734.487.4199  
dpatrick1@emich.edu

This program, for students who have completed undergraduate degrees with majors or minors in communication or speech, prepares them for careers demanding sophisticated knowledge of human communication or for doctoral graduate work. Interpersonal, small-group, organizational, intercultural and speech communication are stressed. Students are encouraged to take six hours of cognate courses as part of the required program.

Admission Requirements
Applicants must:
1. Meet the admission requirements for the Graduate School and be accepted into the program by the department;  
2. Have at least a minor or the equivalent in communication;  
3. Have a minimum overall undergraduate GPA of 2.7 (exceptions on recommendation of area faculty); and  
4. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements
Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;  
2. Successfully meet all conditions stipulated upon entry into the program; and  
3. Complete, with an overall GPA of at least 3.0, a minimum of 30 hours of approved course work as identified in the official program of study.

Course Requirements:

The M.A. in communication requires the completion of 30 hours of course work distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 6-8 hours

• CTAC 600 - Communication Inquiry Credit Hours: 3 hrs  
• CTAC 677 - Research Techniques Credit Hours: 3 hrs  
• CTAC 690 - Degree Requirement Credit Hours: 1 hr  
• CTAC 691 - Degree Requirement Credit Hours: 2 hrs  
• CTAC 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 15-24 hours

Fifteen to 24 hours selected from within the department in consultation with the graduate adviser (minimum of 15 hours of theory courses required).

Cognate Courses: 0-6 hours

Zero to six hours selected from other areas or departments in consultation with the graduate adviser.

Program Total: 30 hours
Concentration in Interpretation/Performance Studies

Admission Requirements
Applicants must:
1. Meet the admission requirements for the Graduate School and be accepted into the program by the department;
2. Have at least a minor or the equivalent in communication or theatre arts
3. Have a minimum overall undergraduate GPA of 2.5 (exceptions on recommendation of area faculty); and
4. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements
Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;
2. Successfully meet all conditions stipulated upon entry into the program; and
3. Complete, with an overall GPA of at least 3.0, a minimum of 30 hours of approved course work as identified in the official program of study.

Course Requirements
The M.A. in communication or theatre arts requires the completion of 30 hours of course work distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 3-5 hours

- CTAC 677 - Research Techniques Credit Hours: 3 hrs
- CTAC 690 - Degree Requirement Credit Hours: 1 hr
- CTAC 691 - Degree Requirement Credit Hours: 2 hrs
- CTAC 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 19-27 hours
Nineteen to 27 hours selected from within the department in consultation with the graduate adviser (minimum of 15 hours of theory courses required).
Cognate Courses: 0-6 hours
Zero to six hours selected from other areas or departments in consultation with the graduate adviser.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Communication, Media and Theatre Arts

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Additional 400-level undergraduate courses also are available to graduate students under special circumstances. On this matter the student should have a clear understanding with the department and the Graduate School before expecting to use such courses toward a master of arts or a master of fine arts in the Department of Communication, Media and Theatre Arts.

Activity Courses:

- CTAA 466 - Forensics Credit Hours: 1 hr
- CTAA 467 - Theatre Practice Credit Hours: 1 hr
- CTAA 468 - Interpretation Credit Hours: 1 hr
• CTAA 479 - Special Topics Credit Hours: 3 hrs

Communication:

• CTAC 440 - Public Discourse Analysis Credit Hours: 3 hrs
• CTAC 460 - Theories of Speech Criticism Credit Hours: 3 hrs
• CTAC 475 - Research in Speech Communication Credit Hours: 3 hrs
• CTAC 485 - Communication Theory Credit Hours: 3 hrs

Interpretation/Performance Studies:

• CTAO 402 - Voice Development Credit Hours: 1 hr
• CTAO 404 - Dynamic Speaking Skills Credit Hours: 3 hrs
• CTAO 405 - Voice and Dialects Credit Hours: 3 hrs
• CTAO 410 - Oral Interpretation of Shakespeare Credit Hours: 3 hrs
• CTAO 411 - Advanced Problems in Interpretation Credit Hours: 3 hrs
• CTAO 412 - Oral Interpretation of Poetry Credit Hours: 3 hrs

Theatre and Drama:

• CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
• CTAR 450 - History of the Theatre to 1642 Credit Hours: 3 hrs
• CTAR 451 - History of the Theatre 1642 to Present Credit Hours: 3 hrs
• CTAR 452 - Arts Management Credit Hours: 3 hrs
• CTAR 453 - Marketing the Arts Credit Hours: 3 hrs
• CTAR 454 - Law, Public Policy and the Arts Credit Hours: 3 hrs
• CTAR 457 - Auditions Credit Hours: 2 hrs
• CTAR 458 - Acting/Directing/Production Intensive I Credit Hours: 3 hrs
• CTAR 459 - Acting/Directing/Production Intensive Credit Hours: 2 hrs
• CTAR 461 - Musical Theatre Acting Credit Hours: 2 hrs
• CTAR 462 - Directors on Directing Credit Hours: 2 hrs
• CTAR 463 - The American Musical Stage Credit Hours: 3 hrs
• CTAR 464 - Style for the Actor Credit Hours: 3 hrs

Telecommunication and Film:

• CTAT 431 - Advanced Radio Production and Direction Credit Hours: 3 hrs
• CTAT 432 - Advanced Television Production and Direction Credit Hours: 3 hrs
• CTAT 445 - Film Theory and Criticism Credit Hours: 3 hrs
• CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs
• CTAT 447 - Radio-Television Station Management Credit Hours: 3 hrs

Master of Arts in Drama/Theatre for the Young (DTY)

Advisers: Christine Tanner, PhD
102 Quirk
734.487.0032
christine.tanner@emich.edu

This program prepares students to enter careers involving work in drama/theatre and communications with and for children, young people and intergenerational groups.

Admission Requirements
Applicants must:
1. Meet the admission requirements for the Graduate School and be accepted into the program by the department;
2. Have an undergraduate GPA of 2.5, or 2.75 in the last half of the undergraduate program;
3. Possess an appropriate foundation in undergraduate studies; and
4. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements

Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;
2. Successfully meet all conditions stipulated upon entry into the program; and
3. Complete, with an overall GPA of at least 3.0, a minimum of 30 hours of approved course work as identified in the official program of study.

Course Requirements:

The M.A. in drama/theatre for the young requires the completion of 30 hours of course work to be distributed among required courses and elective courses as follows:

Required Courses: 3-5 hours

- CTAR 677 - Research Techniques Credit Hours: 2 hrs
- CTAR 690 - Degree Requirement Credit Hours: 1 hr
- CTAR 691 - Degree Requirement Credit Hours: 2 hrs
- CTAR 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 25-27 hours

Twenty-five to 27 hours selected in consultation with the graduate adviser.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Communication, Media and Theatre Arts

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Additional 400-level undergraduate courses also are available to graduate students under special circumstances. On this matter the student should have a clear understanding with the department and the Graduate School before expecting to use such courses toward a master of arts or a master of fine arts in the Department of Communication, Media and Theatre Arts.

Activity Courses:

- CTAA 466 - Forensics Credit Hours: 1 hr
- CTAA 467 - Theatre Practice Credit Hours: 1 hr
- CTAA 468 - Interpretation Credit Hours: 1 hr
- CTAA 479 - Special Topics Credit Hours: 3 hrs

Communication:

- CTAC 440 - Public Discourse Analysis Credit Hours: 3 hrs
- CTAC 460 - Theories of Speech Criticism Credit Hours: 3 hrs
- CTAC 475 - Research in Speech Communication Credit Hours: 3 hrs
- CTAC 485 - Communication Theory Credit Hours: 3 hrs

Interpretation/Performance Studies:

- CTAO 402 - Voice Development Credit Hours: 1 hr
- CTAO 404 - Dynamic Speaking Skills Credit Hours: 3 hrs
• CTAO 405 - Voice and Dialects Credit Hours: 3 hrs
• CTAO 410 - Oral Interpretation of Shakespeare Credit Hours: 3 hrs
• CTAO 411 - Advanced Problems in Interpretation Credit Hours: 3 hrs
• CTAO 412 - Oral Interpretation of Poetry Credit Hours: 3 hrs

Theatre and Drama:

• CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
• CTAR 450 - History of the Theatre to 1642 Credit Hours: 3 hrs
• CTAR 451 - History of the Theatre 1642 to Present Credit Hours: 3 hrs
• CTAR 452 - Arts Management Credit Hours: 3 hrs
• CTAR 453 - Marketing the Arts Credit Hours: 3 hrs
• CTAR 454 - Law, Public Policy and the Arts Credit Hours: 3 hrs
• CTAR 457 - Auditions Credit Hours: 2 hrs
• CTAR 458 - Acting/Directing/Production Intensive I Credit Hours: 3 hrs
• CTAR 459 - Acting/Directing/Production Intensive Credit Hours: 2 hrs
• CTAR 461 - Musical Theatre Acting Credit Hours: 2 hrs
• CTAR 462 - Directors on Directing Credit Hours: 2 hrs
• CTAR 463 - The American Musical Stage Credit Hours: 3 hrs
• CTAR 464 - Style for the Actor Credit Hours: 3 hrs

Telecommunication and Film:

• CTAT 431 - Advanced Radio Production and Direction Credit Hours: 3 hrs
• CTAT 432 - Advanced Television Production and Direction Credit Hours: 3 hrs
• CTAT 445 - Film Theory and Criticism Credit Hours: 3 hrs
• CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs
• CTAT 447 - Radio-Television Station Management Credit Hours: 3 hrs

Master of Arts in Theatre Arts (THAR)

This program prepares students with an undergraduate major or minor in theatre arts for career in all levels of theatre or for further graduate study.

Admission Requirements
Applicants must:
1. Meet the admission requirements for the Graduate School and be accepted into the program by the department;
2. Have at least a minor or the equivalent in communication, theatre arts, or drama/theatre for the young;
3. Have a minimum overall undergraduate GPA of 2.5, or 2.75 in the last half of undergraduate work; and
4. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements
Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;
2. Successfully meet all conditions stipulated upon entry into the program; and
3. Complete, with an overall GPA of at least 3.0, a minimum of 30 hours of approved course work as identified in the official program of study.

Course Requirements:

The M.A. in theatre arts requires the completion of 30 hours of course work to be distributed among required courses and elective courses as follows:

Required Courses: 3-5 hours
• CTAR 677 - Research Techniques Credit Hours: 2 hrs

One course from the following:

• CTAR 690 - Degree Requirement Credit Hours: 1 hr
• CTAR 691 - Degree Requirement Credit Hours: 2 hrs
• CTAR 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 25-27 hours

Twenty-five to 27 hours selected from within the department in consultation with the graduate adviser.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Communication, Media and Theatre Arts

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Additional 400-level undergraduate courses also are available to graduate students under special circumstances. On this matter the student should have a clear understanding with the department and the Graduate School before expecting to use such courses toward a master of arts or a master of fine arts in the Department of Communication, Media and Theatre Arts.

Activity Courses:

• CTAA 466 - Forensics Credit Hours: 1 hr
• CTAA 467 - Theatre Practice Credit Hours: 1 hr
• CTAA 468 - Interpretation Credit Hours: 1 hr
• CTAA 479 - Special Topics Credit Hours: 3 hrs

Communication:

• CTAC 440 - Public Discourse Analysis Credit Hours: 3 hrs
• CTAC 460 - Theories of Speech Criticism Credit Hours: 3 hrs
• CTAC 475 - Research in Speech Communication Credit Hours: 3 hrs
• CTAC 485 - Communication Theory Credit Hours: 3 hrs

Interpretation/Performance Studies:

• CTAO 402 - Voice Development Credit Hours: 1 hr
• CTAO 404 - Dynamic Speaking Skills Credit Hours: 3 hrs
• CTAO 405 - Voice and Dialects Credit Hours: 3 hrs
• CTAO 410 - Oral Interpretation of Shakespeare Credit Hours: 3 hrs
• CTAO 411 - Advanced Problems in Interpretation Credit Hours: 3 hrs
• CTAO 412 - Oral Interpretation of Poetry Credit Hours: 3 hrs

Theatre and Drama:

• CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
• CTAR 450 - History of the Theatre to 1642 Credit Hours: 3 hrs
• CTAR 451 - History of the Theatre 1642 to Present Credit Hours: 3 hrs
• CTAR 452 - Arts Management Credit Hours: 3 hrs
• CTAR 453 - Marketing the Arts Credit Hours: 3 hrs
• CTAR 454 - Law, Public Policy and the Arts Credit Hours: 3 hrs
• CTAR 457 - Auditions Credit Hours: 2 hrs
• CTAR 458 - Acting/Directing/Production Intensive I Credit Hours: 3 hrs
• CTAR 459 - Acting/Directing/Production Intensive Credit Hours: 2 hrs
• CTAR 461 - Musical Theatre Acting Credit Hours: 2 hrs
• CTAR 462 - Directors on Directing Credit Hours: 2 hrs
• CTAR 463 - The American Musical Stage Credit Hours: 3 hrs
• CTAR 464 - Style for the Actor Credit Hours: 3 hrs

Telecommunication and Film:

• CTAT 431 - Advanced Radio Production and Direction Credit Hours: 3 hrs
• CTAT 432 - Advanced Television Production and Direction Credit Hours: 3 hrs
• CTAT 445 - Film Theory and Criticism Credit Hours: 3 hrs
• CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs
• CTAT 447 - Radio-Television Station Management Credit Hours: 3 hrs

Master of Fine Arts in Drama/Theatre for the Young (DTY)

Adviser: Decky Alexander, MFA
132 Quirk
734.487.3179
jalexande1@emich.edu

This terminal degree program prepares qualified students for careers involving drama/theatre for developmental purposes, as well as theatre arts for the young. Required core courses are supplemented by elective and cognate courses to achieve a well-rounded knowledge of developmental drama and theatre for the young.

Admission Requirements
Applicants must:
1. Meet the Graduate School admission requirements and be accepted into the program by the department;
2. Have a minimum overall undergraduate GPA of 2.75, or 3.0 in the last half of the undergraduate program if the bachelor’s degree was earned before 1975; an overall GPA of 3.0 is required if the bachelor’s degree was earned since 1975. Exceptions to this requirement can be made if at least 15 hours of graduate work have already been earned with a GPA of 3.0 or higher;
3. Send samples of previous work and letters of recommendation;
4. Interview with at least one program faculty member;
5. Possess an appropriate foundation in undergraduate studies, with relevant extra-academic experiences taken into account, for the specific graduate focus chosen; and
6. In the case of international students, have a minimum TOEFL score (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Program Requirements
Students must:
1. Early in their graduate work, prepare an official program of study in consultation with an assigned graduate adviser and file it with the Office of Records and Registration;
2. Meet all conditions stipulated upon entry into the program; and
3. Complete, with an overall GPA of at least 3.0, a minimum of 60 hours of approved course work beyond the bachelor’s degree, or a minimum of 30 hours beyond an appropriate master’s degree, as identified in the official program of study.

Course Requirements:

The M.F.A. in drama/theatre for the young requires the completion of 60 hours of course work to be distributed among required courses, required research courses, elective courses and internship courses as follows:

Required Courses: 27 hours

• CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
• CTAR 501 - Creative Drama and Role-Play Credit Hours: 2 hrs
• CTAR 504 - Oral Interpretation of Literature and Language with the Young Credit Hours: 2 hrs
• CTAR 522 - TIE: Theatre-in-Education Credit Hours: 2 hrs
• CTAR 529 - Producing Theatre for Young Audiences Credit Hours: 3 hrs
• CTAR 565 - Studies in Drama/Theatre for the Young Credit Hours: 2 hrs
• CTAR 606 - Colloquium in Communication and Theatre Arts Credit Hours: 1 hr
• CTAR 608 - Colloquium in Communication and Theatre Arts Credit Hours: 3 hrs
• CTAR 627 - The Playwright and the Young Audience Credit Hours: 3 hrs
• CTAR 657 - Improvisation Credit Hours: 3 hrs
• CTAR 658 - Theatre for Children Credit Hours: 3 hrs

Required Research Courses: 8 hours

• CTAR 677 - Research Techniques Credit Hours: 2 hrs
• CTAR 690 - Degree Requirement Credit Hours: 1 hr
• CTAR 691 - Degree Requirement Credit Hours: 2 hrs
• CTAR 692 - Degree Requirement Credit Hours: 3 hrs

Elective Courses: 15 hours

Fifteen hours selected in consultation with the adviser from within the department and from other departments.

Internship: 10 hours

• CTAR 686 - Cooperative Education in Arts Management Credit Hours: 1 hr
• CTAR 687 - Cooperative Education in Arts Management Credit Hours: 2 hrs
• CTAR 688 - Cooperative Education in Arts Management Credit Hours: 3 hrs

Program Total: 60 hours

Undergraduate Courses for Graduate Credit: Communication, Media and Theatre Arts

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Additional 400-level undergraduate courses also are available to graduate students under special circumstances. On this matter the student should have a clear understanding with the department and the Graduate School before expecting to use such courses toward a master of arts or a master of fine arts in the Department of Communication, Media and Theatre Arts.

Activity Courses:

• CTAA 466 - Forensics Credit Hours: 1 hr
• CTAA 467 - Theatre Practice Credit Hours: 1 hr
• CTAA 468 - Interpretation Credit Hours: 1 hr
• CTAA 479 - Special Topics Credit Hours: 3 hrs

Communication:

• CTAC 440 - Public Discourse Analysis Credit Hours: 3 hrs
• CTAC 460 - Theories of Speech Criticism Credit Hours: 3 hrs
• CTAC 475 - Research in Speech Communication Credit Hours: 3 hrs
• CTAC 485 - Communication Theory Credit Hours: 3 hrs

Interpretation/Performance Studies:

• CTAO 402 - Voice Development Credit Hours: 1 hr
• CTAO 404 - Dynamic Speaking Skills Credit Hours: 3 hrs
• CTAO 405 - Voice and Dialects Credit Hours: 3 hrs
• CTAO 410 - Oral Interpretation of Shakespeare Credit Hours: 3 hrs
- CTAO 411 - Advanced Problems in Interpretation Credit Hours: 3 hrs
- CTAO 412 - Oral Interpretation of Poetry Credit Hours: 3 hrs

Theatre and Drama:

- CTAR 429 - History and Theory of Development Drama/Theatre Credit Hours: 3 hrs
- CTAR 450 - History of the Theatre to 1642 Credit Hours: 3 hrs
- CTAR 451 - History of the Theatre 1642 to Present Credit Hours: 3 hrs
- CTAR 452 - Arts Management Credit Hours: 3 hrs
- CTAR 453 - Marketing the Arts Credit Hours: 3 hrs
- CTAR 454 - Law, Public Policy and the Arts Credit Hours: 3 hrs
- CTAR 457 - Auditions Credit Hours: 2 hrs
- CTAR 458 - Acting/Directing/Production Intensive I Credit Hours: 3 hrs
- CTAR 459 - Acting/Directing/Production Intensive Credit Hours: 2 hrs
- CTAR 461 - Musical Theatre Acting Credit Hours: 2 hrs
- CTAR 462 - Directors on Directing Credit Hours: 2 hrs
- CTAR 463 - The American Musical Stage Credit Hours: 3 hrs
- CTAR 464 - Style for the Actor Credit Hours: 3 hrs

Telecommunication and Film:

- CTAT 431 - Advanced Radio Production and Direction Credit Hours: 3 hrs
- CTAT 432 - Advanced Television Production and Direction Credit Hours: 3 hrs
- CTAT 445 - Film Theory and Criticism Credit Hours: 3 hrs
- CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs
- CTAT 447 - Radio-Television Station Management Credit Hours: 3 hrs
Computer Science Programs

Computer Science

Address: 511 Pray-Harrold
Phone: 734.487.1063
E-mail: computer.science@emich.edu
Web site: www.emich.edu/compsci

The Department of Computer Science offers a master of science in computer science, a master of science in bioinformatics, a graduate certificate in artificial intelligence, a graduate certificate in bioinformatics, a secondary teacher certification endorsement and the double master’s degree program with the Fachhochschule Karlsruhe, Germany. The department collaborates closely with the Department of Mathematics in support of the master of arts in mathematics — computer science (see Department of Mathematics listing in this catalog).

Several graduate assistantships in computer science are awarded each year. For additional information, contact the department.

Upon admission to a program, the student must meet with the graduate coordinator to arrange a program of study.

Computer Science Programs and Courses

Endorsement

Computer Science Secondary Teacher Certification Endorsement

This program is intended for secondary school computer teachers already certified in other content areas. Successful completion of the program leads to a certificate endorsement in computer science.

Admission Requirements
Students must satisfy requirements of the Graduate School and hold, or be eligible for, a current secondary teaching certificate issued by the state of Michigan Department of Education.

Secondary Teacher Certification Endorsement

This program is intended for secondary school computer teachers already certified in other content areas. Successful completion of the program leads to a certificate endorsement in computer science.

Admission Requirements
Students must satisfy requirements of the Graduate School and hold, or be eligible for, a current secondary teaching certificate issued by the state of Michigan Department of Education.

Certificate Requirements

This certificate requires 23 hours of course work to be distributed as follows:
• COSC 101 Computers for the Non-specialist (3 hrs)
• COSC 111 - Introduction to Programming Credit Hours: 3 hrs
• COSC 303 - Applications in Computer Science Credit Hours: 3 hrs
• COSC 342 - Programming Languages for Educators Credit Hours: 3 hrs
• COSC 506 - Methods of Teaching Computer Science in the Secondary School Credit Hours: 3 hrs
• COSC 514 - Fundamentals of Computer Science I Credit Hours: 4 hrs
• COSC 515 - Fundamentals of Computer Science II Credit Hours: 4 hrs

Program Total: 23 hours

Undergraduate Courses for Graduate Credit: Computer Science

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• COSC 403 - Seminar and Project Design for Educators Credit Hours: 3 hrs
• COSC 405 - Switching Theory Credit Hours: 3 hrs
• COSC 421 - Systems Programming Credit Hours: 3 hrs
• COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
• COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
• COSC 436 - Web Programming Credit Hours: 3 hrs
• COSC 439 - Computing Network Principles Credit Hours: 3 hrs
• COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
• COSC 445 - Compiler Construction Credit Hours: 3 hrs
• COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
• COSC 461 - Heuristic Programming Credit Hours: 3 hrs
• COSC 471 - Database Principles Credit Hours: 3 hrs
• COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Graduate Certificate

Graduate Certificate in Artificial Intelligence (AI)

Adviser: Bill Sverdlik, PhD.
511 Pray Harrold
734.487.1063
wsverdlik@emich.edu

Artificial intelligence (AI), viewed from the perspective of computer science, attacks problems that elude solution by traditional, provably-correct algorithms. Often borrowing ideas from human intelligence, AI is applied to such tasks as expert reasoning, game-playing, pattern recognition, robotics, natural language and evolution of problem solutions through selective processes. AI methods are employed in other areas of computer science, including networking and software engineering. The graduate certificate in artificial intelligence prepares the student to develop AI-related applications in industry, to keep abreast of new research developments and to pursue more advanced academic study in the field.

Admission Requirements
Applicants must:
1. Have a minimum GPA of 2.75 in all prior computer science courses;
2. Completion of programming classes up to and including Data Structures; and
3. Completion of one semester of discrete mathematical structures.

Program Requirements
1. No more than one 400-level course may be used on the graduate certificate program.
2. A minimum GPA of 3.0 (B) must be achieved.
3. Credits earned for the graduate certificate may count, subject to applicability, toward a graduate degree.
4. All requirements must be completed within three years from the time of first enrollment.

Required Courses: 3 hours

- COSC 561 - Artificial Intelligence Credit Hours: 3 hrs

Restricted Electives: 9 hours

Choose 3 courses from the following list:

- COSC 562 - Information Retrieval and Recommendation Credit Hours: 3 hrs
- COSC 661 - Automated Reasoning Credit Hours: 3 hrs
- COSC 663 - Fuzzy Logic and Design of Fuzzy Systems Credit Hours: 3 hrs
- COSC 667 - Machine Learning and Data Mining Credit Hours: 3 hrs

Certificate Total: 12 hours

Undergraduate Courses for Graduate Credit: Computer Science

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- COSC 403 - Seminar and Project Design for Educators Credit Hours: 3 hrs
- COSC 405 - Switching Theory Credit Hours: 3 hrs
- COSC 421 - Systems Programming Credit Hours: 3 hrs
- COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
- COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
- COSC 436 - Web Programming Credit Hours: 3 hrs
- COSC 439 - Computing Network Principles Credit Hours: 3 hrs
- COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
- COSC 445 - Compiler Construction Credit Hours: 3 hrs
- COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
- COSC 461 - Heuristic Programming Credit Hours: 3 hrs
- COSC 471 - Database Principles Credit Hours: 3 hrs
- COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Graduate Certificate in Language Technology (LTC)

Required Courses: 13 hours

Introductory Computer Science

- COSC 514 - Fundamentals of Computer Science I Credit Hours: 4 hrs

Applied Computer Science

One course from the following:
- COSC 552 - Human-Computer Interaction Credit Hours: 3 hrs
- COSC 571 - Database Management Systems Design Credit Hours: 3 hrs

Advanced Computer Science and Language Technology:

**Six credit hours from the following:**
- COSC 541 - Automata, Computability and Formal Languages Credit Hours: 3 hrs
- COSC 561 - Artificial Intelligence Credit Hours: 3 hrs
- COSC 590 - Special Topics Credit Hours: 1 hr
- COSC 591 - Special Topics Credit Hours: 2 hrs
- COSC 592 - Special Topics Credit Hours: 3 hrs
- COSC 679 - Special Topics Credit Hours: 1 hr
- COSC 680 - Special Topics Credit Hours: 2 hrs
- COSC 681 - Special Topics Credit Hours: 3 hrs
- LING 501 - Current Trends in Linguistics Credit Hours: 3 hrs
- LING 519 - Technology for Language Documentation Credit Hours: 3 hrs
- LING 538 - Multilingual Text Processing Credit Hours: 3 hrs
- LING 590 - Special Topics Credit Hours: 3 hrs
- LING 591 - Special Topics Credit Hours: 3 hrs
- LING 592 - Special Topics Credit Hours: 3 hrs

Certificate Total: 13 hours

**Footnote:**

Special topics courses must be approved by the department

Undergraduate Courses for Graduate Credit: Computer Science

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- COSC 403 - Seminar and Project Design for Educators Credit Hours: 3 hrs
- COSC 405 - Switching Theory Credit Hours: 3 hrs
- COSC 421 - Systems Programming Credit Hours: 3 hrs
- COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
- COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
- COSC 436 - Web Programming Credit Hours: 3 hrs
- COSC 439 - Computing Network Principles Credit Hours: 3 hrs
- COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
- COSC 445 - Compiler Construction Credit Hours: 3 hrs
- COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
- COSC 461 - Heuristic Programming Credit Hours: 3 hrs
- COSC 471 - Database Principles Credit Hours: 3 hrs
- COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.
Master's

Double Master's Degree Program with Fachhochschule Karlsruhe, Germany (University of Applied Sciences)

Purpose of the Program
The purpose of the Double Master’s Degree Program is to enroll excellent students of both departments with two separate yet closely allied degrees, master of computer science, Department of Computer Science, Eastern Michigan University and master of computer science and multimedia studies, Fachbereich Informatik, Fachhochschule Karlsruhe–Hochschule fur Technik (Karlsruhe University of Applied Sciences).

Admission to the Program
The Department of Computer Science at Eastern Michigan University (EMU) and the Fachbereich Informatik at Fachhochschule Karlsruhe - Hochschule fur Technik (FHK-HT), henceforth labeled partner institutions, agree that
admission into the Double Master’s Degree Program requires strictly equivalent academic qualification in both institutions.

For admission into the Double Master’s Degree Program with EMU as the home institution, EMU requires the equivalent of a four-year US bachelor’s degree from an accredited college or University, suitable English language skills and all qualifications as specified and deemed appropriate by the Graduate School and the Department of Computer Science.

For admission into the Double Master’s Degree Program with FHKHT as the home institution, FHK-HT requires a bachelor’s degree or a Diploma in Informatik or Wirtschaftsinformatik, suitable German and English language skills and all qualifications as specified and deemed appropriate by the Fachbereich Informatik at FHK-HT.

A student who has been admitted into the Double Master’s Degree Program at one partner institution must apply to the Double Master’s Degree Program at the other partner institution for the completion of the international component of this program. Where the admission criteria are not easily translatable or not well articulated, reasonable judgements will be made by persons authorized and qualified to make them. An application to the partner institution shall be accompanied by a letter of recommendation for the student from the graduate coordinator in the department of the home institution that elaborates on the specific qualifications of that student for international study.

Graduation from the Double Master’s Degree Program documents that the holder of the two degrees has completed all required coursework, has excelled under international conditions, has developed a global view of the field of computer science and has become an outstanding computer scientist.

**Description of the Program Requirements**

The partner institutions agree that the Double Master’s Degree Program is based on a strict equivalence of credits and student performance. Successful completion of the Double Master’s Degree Program and eligibility for the two degrees named above require the completion of a significant portion of both the two master’s degree programs at the partner institutions as specified below.

Upon admission to the Double Master’s Degree Program, a student must design a program of study approved by the graduate coordinator of the participating department. Every program of study must encompass a minimum of four semesters of full-time study at the graduate level. At EMU four semesters are counted as the equivalent of 48 graduate credit hours, and at FHK-HT four semesters are counted as the equivalent of 12 six-hour blocks and one master’s thesis seminar. The partner institutions therefore agree on the following framework for suitable programs of study within their respective master’s degree programs in order to accommodate students for the Double Master’s Degree Program.

A student admitted to the Double Master’s Degree Program by the Department of Computer Science with EMU as the home institution will receive master’s degrees from both institutions when the following requirements are fulfilled:

1. Satisfactory completion of six classes (18 credit hours) of graduate studies in the Department of Computer Science at EMU. The classes must appear on an approved Program of Study based on Plan B (Research Study). For the specific requirements consult with the double degree program adviser.

2. Satisfactory completion of one semester of graduate studies, including four blocks of Multimedia Studies in the Fachbereich Informatik at FHK-HT (the blocks must appear on an approved Program of Study). For the specific requirements consult with the double degree program adviser.

3. Satisfactory completion of a one-semester internship including a master’s thesis directed by a faculty member in the Fachbereich Informatik at FHK-HT.

A student admitted to the Double Master’s Degree Program by the Fachbereich Informatik at FHK-HT as the home institution will receive master’s degrees from both institutions when the following requirements are fulfilled:

1. Satisfactory completion of two semesters of graduate studies, including six blocks of Multimedia Studies in the Fachbereich Informatik at FHK-HT (the blocks must appear on an approved Program of Study). For the specific requirements consult with the double degree program adviser.
2. Satisfactory completion of five classes (15 credit hours) of graduate studies in the Department of Computer Science at EMU (the classes must appear on an approved Program of Study based on Plan B [Research Study]). For the specific requirements consult with the double degree program adviser.
3. Satisfactory completion of a one-semester research study directed by a faculty member in the Department of Computer Science at EMU.

Master of Science in Computer Science (CSC)

Adviser: Pam Moore, PhD.
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734.487.1063
pmoore@emich.edu

The master of science in computer science provides a flexible and rigorous education in the advanced principles of computer science. Graduates are prepared for employment in business, government organizations, educational institutions and other enterprises.

Admission Requirements
Applicants must:
1. Meet Graduate School admission requirements;
2. Have at least 18 hours of 200-level (or above) computer science courses, including data structures, programming languages, computer organization and operating systems and competency in a high-level programming language such as C, C++, or Java; A major in computer science is preferred. Students must have a minimum GPA of 2.75 in computer science course work; and
3. Have completed courses in discrete mathematics, probability and statistics, linear algebra and calculus (two semesters).

Statement of the meaning of the three levels of admissions assessment in the prerequisites for graduate courses:
Each assessment has two possible scores:
0: unsatisfactory
1: satisfactory.

Degree Requirements
Students may follow one of three plans: plan A, with practicum; plan B, with research study; or plan C, with thesis. Each plan requires 33 hours with at least nine hours in approved 600-level computer science courses. At most nine hours of cognates (500-level and 600-level courses pre-approved by the graduate coordinator) may be credited toward the degree. At most nine hours of approved 400-level courses taken for graduate credit may be counted. All students must satisfactorily complete (or have completed at the undergraduate level) at least one course in each of the following areas: operating system principles, network principles, database principles and theoretical computer science. All students must have an approved and current program of study.

ADM: Student satisfies the admissions requirements to the computer science master’s degree program, CSC.

ADP: Student satisfies the ADM admissions assessment, and student has completed COSC444 Foundations of Automata and Languages or COSC541 Automata, Computability and Formal Languages or equivalent.

UGM: The student has completed an undergraduate computer science major that includes senior level courses in computer architecture, database and operating systems.

Plan A: Practicum

This plan requires a written exit examination and a capstone practicum course.

Required Course: 3 hours
• COSC 683 - Software Engineering Practicum Credit Hours: 3 hrs
Elective Courses Category I: 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator:
• COSC 405 - Switching Theory Credit Hours: 3 hrs
• COSC 421 - Systems Programming Credit Hours: 3 hrs
• COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
• COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
• COSC 439 - Computing Network Principles Credit Hours: 3 hrs
• COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
• COSC 445 - Compiler Construction Credit Hours: 3 hrs
• COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
• COSC 461 - Heuristic Programming Credit Hours: 3 hrs
• COSC 471 - Database Principles Credit Hours: 3 hrs
• COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Elective Courses Category II: 9-30 hours

Nine to 30 hours, a minimum of nine hours must be taken at the 600-level:
• COSC 511 - Design and Analysis of Algorithms Credit Hours: 3 hrs
• COSC 513 - Formal Methods in Software Development Credit Hours: 3 hrs
• COSC 522 - Computer Communication Networks and Distributed Systems Credit Hours: 3 hrs
• COSC 523 - Advanced Computer Organization Credit Hours: 3 hrs
• COSC 527 - Wireless Networking Principles Credit Hours: 3 hrs
• COSC 541 - Automata, Computability and Formal Languages Credit Hours: 3 hrs
• COSC 544 - Programming in LISP Credit Hours: 1 hr
• COSC 545 - Programming in Prolog Credit Hours: 1 hr
• COSC 552 - Human-Computer Interaction Credit Hours: 3 hrs
• COSC 556 - Advanced Computer Graphics Credit Hours: 3 hrs
• COSC 561 - Artificial Intelligence Credit Hours: 3 hrs
• COSC 562 - Information Retrieval and Recommendation Credit Hours: 3 hrs
• COSC 571 - Database Management Systems Design Credit Hours: 3 hrs

See footnote below
• COSC 576 - Computational Tools in Bioinformatics Credit Hours: 3 hrs
• COSC 581 - Software Design and Development Credit Hours: 3 hrs

See footnote below
• COSC 582 - Object-Oriented Design Credit Hours: 3 hrs
• COSC 590 - Special Topics Credit Hours: 1 hr
• COSC 591 - Special Topics Credit Hours: 2 hrs
• COSC 592 - Special Topics Credit Hours: 3 hrs
• COSC 612 - Parallel Algorithms Credit Hours: 3 hrs
• COSC 623 - Advanced Operating Systems Credit Hours: 3 hrs
• COSC 625 - Real Time Processing Credit Hours: 3 hrs
• COSC 631 - eCommerce and Web Database Infrastructure Credit Hours: 3 hrs
• COSC 645 - Advanced Compiler Construction Credit Hours: 3 hrs
• COSC 653 - Software Requirements Engineering Credit Hours: 3 hrs
• COSC 661 - Automated Reasoning Credit Hours: 3 hrs
• COSC 662 - Seminar Credit Hours: 1 hr
• COSC 663 - Fuzzy Logic and Design of Fuzzy Systems Credit Hours: 3 hrs
• COSC 667 - Machine Learning and Data Mining Credit Hours: 3 hrs
• COSC 671 - Advanced Topics in DBMS Credit Hours: 3 hrs
• COSC 679 - Special Topics Credit Hours: 1 hr
• COSC 680 - Special Topics Credit Hours: 2 hrs
• COSC 681 - Special Topics Credit Hours: 3 hrs
• COSC 685 - Software Quality Assurance Credit Hours: 3 hrs
Elective Courses Category III: 0-3 hours

Zero to three hours selected in consultation with the graduate coordinator:
• COSC 597 - Independent Study Credit Hours: 1 hr
• COSC 598 - Independent Study Credit Hours: 2 hrs
• COSC 599 - Independent Study Credit Hours: 3 hrs
• COSC 697 - Independent Study Credit Hours: 1 hr
• COSC 698 - Independent Study Credit Hours: 2 hrs
• COSC 699 - Independent Study Credit Hours: 3 hrs
Cognate Courses (pre-approved, 500- and 600-level): 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator.
Program Total: 33 hours

Note:

Footnote:
Graduate students in the computer science masters program may not count both of the following pairs of courses in their program of study: COSC 439 and COSC 522; COSC444 and COSC 541; COSC 456 and COSC 556; COSC 461 and COSC 561; COSC 471 and COSC 571; or COSC 481 and COSC 581.

Plan B: Research Study

Plan B requires completion of a research project. A committee of three members, chaired by the student’s research adviser, is responsible for confirming the student’s preparedness, approving the topic and readings and accepting the research report. One committee member may be from outside the department. The research report must be publicly presented after approval by the committee.

Required Courses: 3-4 hours

• COSC 690 - Thesis Credit Hours: 1 hr
• COSC 691 - Thesis Credit Hours: 2 hrs
• COSC 692 - Thesis Credit Hours: 3 hrs
Elective Courses Category I: 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator:

• COSC 405 - Switching Theory Credit Hours: 3 hrs
• COSC 421 - Systems Programming Credit Hours: 3 hrs
• COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
• COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
• COSC 439 - Computing Network Principles Credit Hours: 3 hrs
• COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
• COSC 445 - Compiler Construction Credit Hours: 3 hrs
• COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
• COSC 461 - Heuristic Programming Credit Hours: 3 hrs
• COSC 471 - Database Principles Credit Hours: 3 hrs
• COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Elective Courses Category II: 9-30 hours

Nine to 30 hours, a minimum of nine hours must be taken at the 600-level:
• COSC 511 - Design and Analysis of Algorithms Credit Hours: 3 hrs
• COSC 513 - Formal Methods in Software Development Credit Hours: 3 hrs
• COSC 522 - Computer Communication Networks and Distributed Systems Credit Hours: 3 hrs
• COSC 523 - Advanced Computer Organization Credit Hours: 3 hrs
• COSC 527 - Wireless Networking Principles Credit Hours: 3 hrs
• COSC 541 - Automata, Computability and Formal Languages Credit Hours: 3 hrs
• COSC 544 - Programming in LISP Credit Hours: 1 hr
• COSC 545 - Programming in Prolog Credit Hours: 1 hr
• COSC 552 - Human-Computer Interaction Credit Hours: 3 hrs
• COSC 556 - Advanced Computer Graphics Credit Hours: 3 hrs
• COSC 561 - Artificial Intelligence Credit Hours: 3 hrs
• COSC 562 - Information Retrieval and Recommendation Credit Hours: 3 hrs
• COSC 571 - Database Management Systems Design Credit Hours: 3 hrs
• COSC 576 - Computational Tools in Bioinformatics Credit Hours: 3 hrs
• COSC 581 - Software Design and Development Credit Hours: 3 hrs
• COSC 582 - Object-Oriented Design Credit Hours: 3 hrs
• COSC 590 - Special Topics Credit Hours: 1 hr
• COSC 591 - Special Topics Credit Hours: 2 hrs
• COSC 592 - Special Topics Credit Hours: 3 hrs
• COSC 612 - Parallel Algorithms Credit Hours: 3 hrs
• COSC 616 - Algorithms in Bioinformatics Credit Hours: 3 hrs
• COSC 623 - Advanced Operating Systems Credit Hours: 3 hrs
• COSC 625 - Real Time Processing Credit Hours: 3 hrs
• COSC 631 - eCommerce and Web Database Infrastructure Credit Hours: 3 hrs
• COSC 645 - Advanced Compiler Construction Credit Hours: 3 hrs
• COSC 653 - Software Requirements Engineering Credit Hours: 3 hrs
• COSC 661 - Automated Reasoning Credit Hours: 3 hrs
• COSC 662 - Seminar Credit Hours: 1 hr
• COSC 663 - Fuzzy Logic and Design of Fuzzy Systems Credit Hours: 3 hrs
• COSC 667 - Machine Learning and Data Mining Credit Hours: 3 hrs
• COSC 671 - Advanced Topics in DBMS Credit Hours: 3 hrs
• COSC 679 - Special Topics Credit Hours: 1 hr
• COSC 680 - Special Topics Credit Hours: 2 hrs
• COSC 681 - Special Topics Credit Hours: 3 hrs
• COSC 685 - Software Quality Assurance Credit Hours: 3 hrs

Elective Courses Category III: 0-3 hours

Zero to three hours selected in consultation with the graduate coordinator:
• COSC 597 - Independent Study Credit Hours: 1 hr
• COSC 598 - Independent Study Credit Hours: 2 hrs
• COSC 599 - Independent Study Credit Hours: 3 hrs
• COSC 697 - Independent Study Credit Hours: 1 hr
• COSC 698 - Independent Study Credit Hours: 2 hrs
• COSC 699 - Independent Study Credit Hours: 3 hrs

Cognate Courses (pre-approved, 500- and 600-level): 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator.

Program Total: 33 hours

Note:

Footnote:
Graduate students in the computer science masters program may not count both of the following pairs of courses in their program of study: COSC 439 and COSC 522; COSC444 and COSC 541; COSC 456 and COSC 556; COSC 461 and COSC 561; COSC 471 and COSC 571; or COSC 481 and COSC 581.

Plan C: Thesis

Plan C requires completion of a thesis for six hours. A committee of three members, chaired by the student’s research adviser, is responsible for confirming the student’s preparedness, approving the topic and readings and accepting the thesis. One committee member may be from outside the department. The thesis must be publicly defended.
Required Courses: 6 hours

- COSC 690 - Thesis Credit Hours: 1 hr
- COSC 691 - Thesis Credit Hours: 2 hrs
- COSC 692 - Thesis Credit Hours: 3 hrs

Elective Courses Category I: 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator:

- COSC 405 - Switching Theory Credit Hours: 3 hrs
- COSC 421 - Systems Programming Credit Hours: 3 hrs
- COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
- COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
- COSC 439 - Computing Network Principles Credit Hours: 3 hrs
- COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
- COSC 445 - Compiler Construction Credit Hours: 3 hrs
- COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
- COSC 461 - Heuristic Programming Credit Hours: 3 hrs
- COSC 471 - Database Principles Credit Hours: 3 hrs
- COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs

Elective Courses Category II: 9-30 hours

Nine to 30 hours, a minimum of nine hours must be taken at the 600-level:

- COSC 511 - Design and Analysis of Algorithms Credit Hours: 3 hrs
- COSC 513 - Formal Methods in Software Development Credit Hours: 3 hrs
- COSC 522 - Computer Communication Networks and Distributed Systems Credit Hours: 3 hrs
- COSC 523 - Advanced Computer Organization Credit Hours: 3 hrs
- COSC 527 - Wireless Networking Principles Credit Hours: 3 hrs
- COSC 541 - Automata, Computability and Formal Languages Credit Hours: 3 hrs
- COSC 544 - Programming in LISP Credit Hours: 1 hr
- COSC 545 - Programming in Prolog Credit Hours: 1 hr
- COSC 552 - Human-Computer Interaction Credit Hours: 3 hrs
- COSC 556 - Advanced Computer Graphics Credit Hours: 3 hrs
- COSC 561 - Artificial Intelligence Credit Hours: 3 hrs
- COSC 562 - Information Retrieval and Recommendation Credit Hours: 3 hrs
- COSC 571 - Database Management Systems Design Credit Hours: 3 hrs
- COSC 576 - Computational Tools in Bioinformatics Credit Hours: 3 hrs
- COSC 581 - Software Design and Development Credit Hours: 3 hrs
- COSC 582 - Object-Oriented Design Credit Hours: 3 hrs
- COSC 590 - Special Topics Credit Hours: 1 hr
- COSC 591 - Special Topics Credit Hours: 2 hrs
- COSC 592 - Special Topics Credit Hours: 3 hrs
- COSC 612 - Parallel Algorithms Credit Hours: 3 hrs
- COSC 616 - Algorithms in Bioinformatics Credit Hours: 3 hrs
- COSC 623 - Advanced Operating Systems Credit Hours: 3 hrs
- COSC 625 - Real Time Processing Credit Hours: 3 hrs
- COSC 631 - eCommerce and Web Database Infrastructure Credit Hours: 3 hrs
- COSC 645 - Advanced Compiler Construction Credit Hours: 3 hrs
- COSC 653 - Software Requirements Engineering Credit Hours: 3 hrs
- COSC 661 - Automated Reasoning Credit Hours: 3 hrs
- COSC 662 - Seminar Credit Hours: 1 hr
- COSC 663 - Fuzzy Logic and Design of Fuzzy Systems Credit Hours: 3 hrs
- COSC 667 - Machine Learning and Data Mining Credit Hours: 3 hrs
- COSC 671 - Advanced Topics in DBMS Credit Hours: 3 hrs
- COSC 679 - Special Topics Credit Hours: 1 hr
- COSC 680 - Special Topics Credit Hours: 2 hrs
- COSC 681 - Special Topics Credit Hours: 3 hrs
- COSC 685 - Software Quality Assurance Credit Hours: 3 hrs

Elective Courses Category III: 0-3 hours

Zero to three hours selected in consultation with the graduate coordinator:
- COSC 597 - Independent Study Credit Hours: 1 hr
- COSC 598 - Independent Study Credit Hours: 2 hrs
- COSC 599 - Independent Study Credit Hours: 3 hrs
- COSC 697 - Independent Study Credit Hours: 1 hr
- COSC 698 - Independent Study Credit Hours: 2 hrs
- COSC 699 - Independent Study Credit Hours: 3 hrs

Cognate Courses (pre-approved, 500- and 600-level): 0-9 hours

Zero to nine hours selected in consultation with the graduate coordinator.

Program Total: 33 hours

Note:

Footnote:
Graduate students in the computer science masters program may not count both of the following pairs of courses in their program of study: COSC 439 and COSC 522; COSC 444 and COSC 541; COSC 456 and COSC 556; COSC 461 and COSC 561; COSC 471 and COSC 571; or COSC 481 and COSC 581.

Undergraduate Courses for Graduate Credit: Computer Science

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- COSC 403 - Seminar and Project Design for Educators Credit Hours: 3 hrs
- COSC 405 - Switching Theory Credit Hours: 3 hrs
- COSC 421 - Systems Programming Credit Hours: 3 hrs
- COSC 422 - Introduction to Microprocessors Credit Hours: 3 hrs
- COSC 423 - Computer Operating Systems Credit Hours: 3 hrs
- COSC 436 - Web Programming Credit Hours: 3 hrs
- COSC 439 - Computing Network Principles Credit Hours: 3 hrs
- COSC 444 - Foundations of Automata and Languages Credit Hours: 3 hrs
- COSC 445 - Compiler Construction Credit Hours: 3 hrs
- COSC 456 - Microcomputer Graphics Credit Hours: 3 hrs
- COSC 461 - Heuristic Programming Credit Hours: 3 hrs
- COSC 471 - Database Principles Credit Hours: 3 hrs
- COSC 481 - Software Engineering and Senior Project Credit Hours: 3 hrs
The Department of Economics has about 60 graduate students, about half of whom come from Michigan and other parts of the U.S. with the other half coming from a variety of countries and regions of the world including China, India, Malaysia, the Middle East, Thailand, Africa, and Europe. Class sizes are relatively small (10 to 20 students). Given the diversity of our students and faculty, students are exposed to a variety of global viewpoints on economic conditions, problems and government policies. The department offers five 30 credit hour Masters programs and a 15 credit hour certificate in medical economics. Together, these programs can accommodate students with undergraduate majors in economics, business, mathematics, engineering, political science, public administration, and liberal arts.

The Master of Arts in Economics (ECN), Master of Arts in International Economics and Development (ECNI), and the Master of Arts in Applied Economics (ECNA) are each designed for students with extensive undergraduate economics who are preparing for careers in research, or advanced positions in business or finance, or in government policy analysis or planning. These degrees also provide excellent preparation for those planning Ph.D. study in economics or admission to law school.

The Master of Arts in Health Economics (ECNH) and Master of Arts in Trade Development (TRDV) are designed for students with limited undergraduate economics who are planning careers as business, government, or healthcare managers. The Health Economics program can also be taken with higher level theory courses for those interested in expanded career opportunities. The department also offers a 15 credit hour Graduate Certificate in Medical Economics (CMECN) for those with little or no prior economics but who are already employed in healthcare or who are seeking entry level management positions in healthcare.

**Admission Requirements**

Admission requirements for the department’s programs are as follows:

**Degree Admission**

Applicants must:

1. Obtain a baccalaureate from an accredited college or University;
2. Have an undergraduate grade point average of at least 2.5 (preferably 3.0 or higher);
3. Satisfy undergraduate course requirements, including the equivalent of ECON201, ECON202, ECON301, ECON302, ECON310, and MATH119 (calculus) for the ECN, ECNA, and ECNI programs; or the equivalent of ECON201, ECON202, ECON310, and MATH118 (linear models) for the ECNH and TRDV programs.

**Conditional Admission**

Conditional admission is granted to those students not meeting the standards stated in (3.) above, but who show promise. Students who are conditionally admitted are required to overcome specified deficiencies existing at the time of admission. When these deficiencies are overcome, the student’s status is changed to degree admission. No more than 12 hours of graduate course work in economics taken by students on conditional status may be applied toward the M.A. degree.

**Program Length**
The length of each program is 30 hours, which can be completed in one and a half to two years by full-time students. A third or more of students pursue their degree through part-time study while working, and typically complete the program in three years or less.

Admission Policies and Procedures
Admission information and application materials are available at: http://www.emich.edu/admissions

Students complete the application form; provide a personal statement indicating their career goals and why they have chosen both EMU and the specific economics degree they are seeking; and supply official transcripts from all undergraduate colleges they have attended. Admissions decisions are based primarily on academic performance, and students are encouraged to submit two letters of recommendation from professors. A score from the Graduate Record Examinations (GRE) is not required. International students must take TOEFL and the Test of Written English (TWE). The EILTS may be substituted for TOEFL/TWE. Students with scores below the minimum must take English as a Second Language (ESL) courses at EMU to raise their English proficiency up to a satisfactory level as described on the ESL placement web site: www.emich.edu/public/foreignlanguages/esl/program.htm#placement.

Financial Aid
Financial aid includes the graduate assistantship (GA) program, university fellowship program, and national scholars program, which are available on a competitive basis. The Department of Economics awards a total of about ten half-time graduate assistantships per academic year to incoming and returning students. Recipients of half-time positions work about 10 hours per week, earn about $4,000 per academic year and receive a tuition waiver of 9 hours per academic year. GA awards are based on the student’s academic performance as shown by grade point average (usually 3.3 or higher), letters of recommendation, and experience using computer programs. University fellowships are awarded by the Graduate School to students with very high GPAs, and range from $500-$4,000 per academic year. International and other non-Michigan applicants with GPAs of 3.2 or above are also eligible for EMU’s National Scholars Program which pays the difference between in-state and out-of-state tuition.

Advising Information
For additional information and departmental advising, please contact:

Graduate Advising Coordinator: David Crary, Ph.D.
Address: 703-G Pray Harrold
Phone: 734.487.0001
E-mail: dcrary@emich.edu

Economics Programs and Courses

Graduate Certificate

Graduate Certificate in Medical Economics

This program will allow students to:

1. Develop an understanding of the application of economic principles to medical care issues.
2. Understand the role of economic forces underlying the transformation of the medical care system.
3. Explain the economic aspects and implications of contractual relationships between patients, providers and insurers.
4. Learn techniques to evaluate the quality, effectiveness and cost of medical care.
5. Understand the economic structure of the health care industry and how it affects the financing and delivery of medical care.

Except for ECON500, credits earned in this certificate program may be subsequently be counted toward the MA in Health Economics.
Admission Requirements
To be eligible for the Graduate Certificate Program in Medical Economics, students must have a bachelor's degree from an accredited university with a minimum grade point average of 2.5 on a 4.0 scale.

Required Courses: 9 hours
- ECON 436 - Health Economics Credit Hours: 3 hrs
- ECON 500 - Foundations of Economics Analysis Credit Hours: 3 hrs
- ECON 535 - Issues and Techniques in Medical Economics Credit Hours: 3 hrs

Elective Courses: 6 hours
- ECON 501 - Macroeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 502 - Microeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 536 - Advanced Health Economics Credit Hours: 3 hrs
- ECON 537 - Statistical Methods in Medical Economics Credit Hours: 3 hrs
- ECON 592 - Special Topics Credit Hours: 3 hrs
- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- HLAD 511 - Health Law Credit Hours: 3 hrs
- HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs

Note:
*This requirement is waved for students who have taken ECON201 and ECON202 or equivalent courses. If ECON500 is waived, then the student selects three elective courses.

Master's

Master of Arts in Applied Economics (ECNA)
This program provides an organized and carefully developed study of applied economics. While the program satisfies the general education requirements of the economics profession, it seeks to meet the need for empirically oriented applied economists. In addition to the sequence of core courses, the program stresses research opportunities and the use of quantitative approaches. Extensive application of computer techniques is integral to the program.

Students develop expertise in hypothesis testing and model building for the analysis of complex public policy issues such as monetary and fiscal policy, consumer and business behavior, health care analysis, and micro and macroeconomic forecasting.

Degree Requirements
In addition to satisfying general Graduate School requirements, the student must satisfactorily complete the following course requirements:

Course Requirements:

The M.A. in applied economics requires 30 hours of course work to be distributed among required courses, restricted elective courses and elective courses as follows:

Required Courses: 18 hours
- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
- ECON 511 - Mathematical Economics Credit Hours: 3 hrs
- ECON 601 - Macroeconomic Analysis Credit Hours: 3 hrs
- ECON 602 - Microeconomic Analysis Credit Hours: 3 hrs
- ECON 606 - Applied Economics Credit Hours: 3 hrs
Select from option I, option II or option III:

Option I:
- ECON 604 - Research Seminar in Economics Credit Hours: 3 hrs

Option II:
- ECON 699 - Independent Study Credit Hours: 3 hrs
  in which the student writes a supervised research (M.A.) paper under the direction of a faculty member.

Option III:
- ECON 692 - Thesis Credit Hours: 3 hrs

Restricted Elective Course: 6 hours

Two courses from the following:
- ECON 510 - Applied Economic Statistics Credit Hours: 3 hrs
- ECON 515 - Econometrics: Theory and Applications Credit Hours: 3 hrs
- ECON 545 - Economic Forecasting and Policy Credit Hours: 3 hrs

Elective Courses: 6 hours

Six hours of graduate economics or related cognates selected in consultation with the graduate adviser.

Program Total 30 hours

Note:

Footnote:

These courses must be completed with a grade of B- or better.

Undergraduate Courses for Graduate Credit: Economics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ECON 405 - Economic Analysis for Business Credit Hours: 3 hrs
- ECON 406 - History of Economic Thought Credit Hours: 3 hrs
- ECON 407 - Economic Analysis and Law Credit Hours: 3 hrs
- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
- ECON 436 - Health Economics Credit Hours: 3 hrs
- ECON 440 - Money, Credit and Monetary Policy Credit Hours: 3 hrs
- ECON 445 - Economic Fluctuations and Forecasting Credit Hours: 3 hrs
- ECON 455 - Cost-Benefit Analysis Credit Hours: 3 hrs
- ECON 460 - Industrial Organization Credit Hours: 3 hrs
- ECON 479 - Special Topics Credit Hours: 3 hrs
- ECON 480 - International Economics Credit Hours: 3 hrs

Master of Arts in Economics (ECN)

Adviser: David Crary, PhD.
Address: 703-G Pray Harrold
Phone: 734.487.0001
email: dcrary@emich.edu
The master of arts in economics provides a basic understanding of the theoretical foundations and analytical tools that students need in order to be successful researchers, business leaders, and government policy analysts. The program exposes students to a variety of areas of economic study through course work, independent study and research. The general program enables students to choose any mix of elective courses in economics (with up to six hours of cognates upon approval) that meet their career goals.

**Degree Requirements**

In addition to satisfying general Graduate School requirements, the student must satisfactorily complete the following course requirements.

**Course Requirements:**

The M.A. in economics requires 30 hours of course work to be distributed among required courses and program courses as follows:

- **Required Courses:** 15 hours
  - ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
  - ECON 511 - Mathematical Economics Credit Hours: 3 hrs
  - ECON 601 - Macroeconomic Analysis Credit Hours: 3 hrs
  - ECON 602 - Microeconomic Analysis Credit Hours: 3 hrs

- **Select from either Option I, Option II, or Option III:**
  - **Option I:**
    - ECON 604 - Research Seminar in Economics Credit Hours: 3 hrs
  - **Option II:**
    - ECON 699 - Independent Study Credit Hours: 3 hrs in which the student writes a supervised research (M.A.) paper under the direction of a faculty member.
  - **Option III:**
    - ECON 692 - Thesis Credit Hours: 3 hrs

- **Restricted Elective Course:** 15 hours

**Program Total 30 hours**

*Note:*

*Footnote:*

These courses must be completed with a grade of B- or better.

Undergraduate Courses for Graduate Credit: Economics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ECON 405 - Economic Analysis for Business Credit Hours: 3 hrs
- ECON 406 - History of Economic Thought Credit Hours: 3 hrs
- ECON 407 - Economic Analysis and Law Credit Hours: 3 hrs
- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
Master of Arts in Health Economics (ECNH)

The master of arts in health economics provides a basic understanding of the theoretical foundations and tools of economic analysis so that students gain competence in economic theory and its uses. The program exposes students to a variety of areas of economic study through course work, independent study and research. In addition, this program provides students with quantitative and computer skills that can be used to do analysis for health organizations and consulting firms that advise health organizations.

Degree Requirements
In addition to satisfying general Graduate School requirements, the student must satisfactorily complete the following course requirements.

Course Requirements:

The M.A. in Health Economics requires 30 hours of course work to be distributed among required courses and program courses as follows:

Required Courses: 15 hours

- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs

Choose one course from the following:

- ECON 501 - Macroeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 601 - Macroeconomic Analysis Credit Hours: 3 hrs

Choose one course from the following:

- ECON 502 - Microeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 602 - Microeconomic Analysis Credit Hours: 3 hrs

Choose one course from the following:

- ECON 511 - Mathematical Economics Credit Hours: 3 hrs
- ECON 537 - Statistical Methods in Medical Economics Credit Hours: 3 hrs

Choose one course from the following:

- ECON 604 - Research Seminar in Economics Credit Hours: 3 hrs
- ECON 692 - Thesis Credit Hours: 3 hrs
- ECON 699 - Independent Study Credit Hours: 3 hrs

in which the student writes a supervised research (M.A.) paper under the direction of a faculty member.

Restricted Elective Course: 15 hours

- ECON 436 - Health Economics Credit Hours: 3 hrs (must be taken for graduate credit)
- ECON 536 - Advanced Health Economics Credit Hours: 3 hrs

Three hours from the following:

- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
• HLAD 511 - Health Law Credit Hours: 3 hrs
• HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs
Six hours from the following:
• ECON 455 - Cost-Benefit Analysis Credit Hours: 3 hrs
  (must be taken for graduate credit)
  • ECON 515 - Econometrics: Theory and Applications Credit Hours: 3 hrs
  • ECON 517 - Economic Analysis of Law Credit Hours: 3 hrs
  • ECON 520 - Analytic Labor Economics Credit Hours: 3 hrs
  • ECON 535 - Issues and Techniques in Medical Economics Credit Hours: 3 hrs
  • ECON 550 - Public Finance: Analysis and Policy Credit Hours: 3 hrs
  • ECON 560 - Economics of Industrial Organization Credit Hours: 3 hrs
  • ECON 606 - Applied Economics Credit Hours: 3 hrs
  • ECON 697 - Independent Study Credit Hours: 1 hr
  • ECON 698 - Independent Study Credit Hours: 2 hrs
  • ECON 699 - Independent Study Credit Hours: 3 hrs
Program Total: 30 hours

Undergraduate Courses for Graduate Credit: Economics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• ECON 405 - Economic Analysis for Business Credit Hours: 3 hrs
• ECON 406 - History of Economic Thought Credit Hours: 3 hrs
• ECON 407 - Economic Analysis and Law Credit Hours: 3 hrs
• ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
• ECON 436 - Health Economics Credit Hours: 3 hrs
• ECON 440 - Money, Credit and Monetary Policy Credit Hours: 3 hrs
• ECON 445 - Economic Fluctuations and Forecasting Credit Hours: 3 hrs
• ECON 455 - Cost-Benefit Analysis Credit Hours: 3 hrs
• ECON 460 - Industrial Organization Credit Hours: 3 hrs
• ECON 479 - Special Topics Credit Hours: 3 hrs
• ECON 480 - International Economics Credit Hours: 3 hrs

Note:

ECON511, ECON601 and ECON602 are recommended options for students with extensive undergraduate study in economics.

**Master of Arts in International Economics and Development (ECNI)**

This program provides a basic understanding of the theoretical foundations and tools of economic analysis, enabling students to gain competence in economic theory and its uses. The program exposes students to a variety of areas of economic study through course work, independent study and research. In addition, this program prepares students for technical careers (e.g. research and/or consulting for government and private business) in the fields of international economics and economic development.
Degree Requirements
In addition to satisfying general Graduate School requirements, the student must satisfactorily complete the following course requirements.

Course Requirements:

The M.A. in international economics and development requires 30 hours of course work to be distributed among required courses and program courses as follows:

Required Courses: 15 hours

- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
- ECON 511 - Mathematical Economics Credit Hours: 3 hrs
- ECON 601 - Macroeconomic Analysis Credit Hours: 3 hrs
- ECON 602 - Microeconomic Analysis Credit Hours: 3 hrs

Select from option I, option II or option III:

Option I:

- ECON 604 - Research Seminar in Economics Credit Hours: 3 hrs

Option II:

- ECON 699 - Independent Study Credit Hours: 3 hrs
  in which the student writes a supervised research (M.A.) paper under the direction of a faculty member.

Option III:

- ECON 692 - Thesis Credit Hours: 3 hrs

Restricted Elective Courses: 15 hours

Fifteen hours from the following:

- Other adviser-approved electives (0-3 hrs)
- ECON 561 - Economics of Multinational Enterprise Credit Hours: 3 hrs
- ECON 580 - International Trade: Theory and Policy Credit Hours: 3 hrs
- ECON 581 - The International Monetary System Credit Hours: 3 hrs
- ECON 585 - Economic Growth and Development Credit Hours: 3 hrs
- ECON 586 - Economic Planning Credit Hours: 3 hrs
- ECON 587 - Case Studies in Economic Development Credit Hours: 3 hrs
- ECON 681 - Special Topics Credit Hours: 3 hrs

Program Total: 30 hours

Note:

Footnote:

These courses must be completed with a grade of B- or better.

Undergraduate Courses for Graduate Credit: Economics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ECON 405 - Economic Analysis for Business Credit Hours: 3 hrs
- ECON 406 - History of Economic Thought Credit Hours: 3 hrs
- ECON 407 - Economic Analysis and Law Credit Hours: 3 hrs
Master of Arts in Trade and Development (TRDV)

Rapidly growing international trade, increasing complexity of world financial markets and the collision of economic development with environmental problems place special demands on economists engaged in international business and public policy making. Some master’s degree programs provide training in business or foreign language, or some combination of these, but the economics components of these programs are often minimal and insufficient. Alternately, many master’s programs in economics are designed chiefly to serve students with strong analytic skills. By contrast, the Master of Arts in Trade and Development offers comprehensive training in international trade and economic development, while stressing applications and policy issues relevant to nontechnical careers in international business and government service.

Admission Requirements

Degree Admission
Degree admission is available to applicants who:
1. Hold a bachelor’s degree, with a major or minor in economics, from an accredited college or University, or a bachelor’s or master’s degree in business, foreign language, political science or another appropriate field;
2. Have an undergraduate GPA of at least 2.5 on a 4.0 scale; and
3. Satisfy undergraduate course requirements including at least one course in economics and the equivalent of MATH118 and ECON310.

Conditional Admission
Conditional admission may be granted to otherwise promising applicants who do not meet the above stated standards. Conditionally admitted students must overcome specified deficiencies in order to have their status changed to degree admission. No more than 12 hours of graduate course work in economics taken by students on conditional status may be applied toward the M.A. degree.

Degree Requirements
In addition to satisfying general Graduate School requirements, the student must satisfactorily complete the following course requirements:

Course Requirements:

The M.A. in trade and development requires 30 hours of course work to be distributed among required courses and restricted elective courses as follows:

Required Courses: 24 hours

- ECON 401 - Use of Quantitative Methods in Economics (3 hrs)
- ECON 415 - Introduction to Econometrics (3 hrs)
- ECON 501 - Macroeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 502 - Microeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 508 - International Trade Credit Hours: 3 hrs
- ECON 509 - International Monetary Economics Credit Hours: 3 hrs
- ECON 561 - Economics of Multinational Enterprise Credit Hours: 3 hrs
- ECON 585 - Economic Growth and Development Credit Hours: 3 hrs
Select from either Option I, Option II, or Option III:

Option I:

- ECON 604 - Research Seminar in Economics Credit Hours: 3 hrs

Option II:

- ECON 699 - Independent Study Credit Hours: 3 hrs
  in which the student writes a supervised research (M.A.) paper under the direction of a faculty member.

Option III:

- ECON 692 - Thesis Credit Hours: 3 hrs

Elective Courses: 6 hours

*Six hours from the following:*

- Economics courses available for graduate credit (3 hrs each) and/or
- FIN 540 - International Finance Credit Hours: 3 hrs and/or

Program Total 30 hours

Undergraduate Courses for Graduate Credit: Economics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ECON 405 - Economic Analysis for Business Credit Hours: 3 hrs
- ECON 406 - History of Economic Thought Credit Hours: 3 hrs
- ECON 407 - Economic Analysis and Law Credit Hours: 3 hrs
- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
- ECON 436 - Health Economics Credit Hours: 3 hrs
- ECON 440 - Money, Credit and Monetary Policy Credit Hours: 3 hrs
- ECON 445 - Economic Fluctuations and Forecasting Credit Hours: 3 hrs
- ECON 455 - Cost-Benefit Analysis Credit Hours: 3 hrs
- ECON 460 - Industrial Organization Credit Hours: 3 hrs
- ECON 479 - Special Topics Credit Hours: 3 hrs
- ECON 480 - International Economics Credit Hours: 3 hrs
English Language and Literature Programs

English Language and Literature

Address: 612 Pray-Harrold
Phone: 734.487.4220
E-mail: Rebecca.sipe@emich.edu
Web site: www.emich.edu/english/

Students pursuing the master of arts in English may choose among five programs: literature, written communication, children’s literature, English linguistics and creative writing, described in the following pages. Students interested in applying for a graduate assistantship for the fall semester will be required to turn in their application to the department no later than March 1.

Degree candidates in other departments may elect English department courses as cognates if they meet prerequisites and if class size permits. Members of the department’s graduate committee are available for consultation during regular office hours. Students are assigned advisers upon admission and may request specific faculty advisers if available.

Departmental Admission Requirements
Applicants must:
1. Complete an Application for Graduate Admission form;
2. Provide academic transcripts;
3. Have at least 24 hours of undergraduate English, excluding freshman composition, and a GPA of at least 3.0. Applicants not meeting these standards may apply for conditional admission;
4. Create a personal statement;
5. Have at least two letters of recommendation;
6. Provide a writing sample, which is required of all programs except for Linguistics (both the M.A. and the Graduate Certificate), for which it is optional;
7. Nonnative speakers of English must have a minimum score on the Test of English as a Foreign Language (TOEFL) or a 90 on the Michigan English Language Assessment Battery (MELAB), and pass the Test of Written English (TWE) with a minimum score. Students should see the Admissions web site at www.emich.edu/admissions for minimum scores;
8. GRE general test scores are recommended, but not required; and
9. Meet the requirements of the graduate school.

Departmental Degree Requirements
1. A minimum of 30 hours of graduate work in a program of study approved by the coordinator of graduate studies, with a GPA of at least 3.0.
2. A master’s thesis is required in several programs, optional in others. See individual program requirements. The thesis or project topic and design are developed by the candidate with the advice of a departmental faculty member. The thesis or project must be submitted for the approval of the directing committee.

Graduate Language and Literature Programs and Courses

Graduate Certificate
Graduate Certificate in Teaching of Writing (CTW-AS)

Adviser: Cheryl Cassidy, PhD.
602Q Pray Harrold
734.487.0150
cheryl.cassidy@emich.edu

Required Courses: 15-17 hours

- ENGL 503 - Rhetorical Theory and the Teaching of Writing Credit Hours: 3 hrs
- ENGL 515 - Literacy and Written Literacy Instruction Credit Hours: 3 hrs
- ENGL 516 - Computers and Writing: Theory and Practice Credit Hours: 3 hrs

One course from the following:

- ENGL 514 - Issues in Teaching Writing Credit Hours: 3 hrs
- ENGL 596 - Teaching Composition on the College Level Credit Hours: 3 hrs
- ENGL 675 - Eastern Michigan Writing Project Summer Institute Credit Hours: 5 hrs

One course from the following:

- ENGL 517 - Topics in the Teaching of Writing Credit Hours: 3 hrs
- ENGL 518 - Topics in English Education Credit Hours: 3 hrs

Certificate Total: 15-17 hours

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs
- ENGL 444 - Writing for the World Wide Web Credit Hours: 3 hrs
- ENGL 487 - Cooperative Education in English Credit Hours: 3 hrs
- ENGL 488 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 489 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 490 - Internship in Technical Writing Credit Hours: 3 hrs
- JRNL 408 - Case Studies in Public Relations Credit Hours: 3 hrs
- JRNL 423 - Magazine Article Writing Credit Hours: 3 hrs
- JRNL 453 - Advanced Reporting Credit Hours: 3 hrs
- JRNL 454 - Contemporary Problems in Journalism Credit Hours: 3 hrs
- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
• LING 402 - Modern English Grammar Credit Hours: 3 hrs
• LING 415 - Women and Language Credit Hours: 3 hrs
• LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
• LING 421 - The History of the English Language Credit Hours: 3 hrs
• LING 425 - Introduction to Syntax Credit Hours: 3 hrs
• LING 426 - Topics in Linguistics Credit Hours: 3 hrs
• LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
• LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
• LITR 405 - Shakespeare Credit Hours: 3 hrs
• LITR 411 - Studies in Epic and Romance Credit Hours: 3 hrs
• LITR 413 - The Poetry of Chaucer Credit Hours: 3 hrs
• LITR 440 - Genre Studies Credit Hours: 3 hrs
• LITR 443 - Women in Literature Credit Hours: 3 hrs
• LITR 450 - Major Authors Credit Hours: 3 hrs

**Graduate Certificate in Technical Communication (TECM)**

**Objectives**
The certificate program provides specialist training, at the graduate level, to individuals who wish to increase their knowledge, or obtain new knowledge, in the field of technical communication. The program addresses the needs of individuals who have been trained in other fields who wish to become technical communicators; of individuals who have been trained in English or technical communication who wish to take additional, advanced course work in the field; and of practitioners in technical communication who wish to increase their knowledge base. The program provides students with the skills they will need to work as technical communicators and/or to pursue further graduate study in technical communication.

**Admission Requirements**
In addition to the Graduate School admission requirements for certificate programs, the department stipulates the following:

1. At least 18 hours of undergraduate English, excluding freshman composition, and a GPA of at least 3.0. Applicants not meeting these standards may apply for conditional admission. Further, applicants may also combine academic and professional experience in support of their application.

2. Non-native speakers of English must have a minimum score on the Test of English as a Foreign Language (TOEFL) or on the Michigan English Language Assessment Battery (MELAB). Students with TOEFL essay scores below five will be denied admission; students with TOEFL scores lower than minimum can be considered for conditional admission, but must attain minimum scores by the end of the first semester of enrollment. See the Admissions web site at www.emich.edu/admissions for minimum scores.

**Certificate/Degree Requirements**
1. A minimum of 15 credit hours of graduate course work* in technical communication with a GPA of at least 3.0.

2. Students are encouraged to compile a portfolio of work completed in the program accompanied by a reflective essay. The portfolio and reflective essay are optional.

*Note:
Advanced 400-level undergraduate courses are also available to graduate students. A maximum of three hours of approved 400-level course work may count toward the graduate certificate in technical communication. Students must submit a request form from the Graduate School to enroll in an advanced 400-level undergraduate course for graduate credit.

**Required Courses: 15 hours**

- ENGL 524 - Advanced Technical Writing and Research Credit Hours: 3 hrs
- Three courses from the following:
  - ENGL 525 - Advanced Public Relations Writing Credit Hours: 3 hrs
  - ENGL 526 - Topics in Technical Communication Credit Hours: 3 hrs
- ENGL 527 - Topics in Professional Communication Credit Hours: 3 hrs
- STS 502 - Microcomputer Applications in Administration Credit Hours: 3 hrs

One course from the following:

See footnote below

- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs

Certificate Total: 15 hours

Note:

Footnote:
As mentioned above, students may only take one advanced 400-level class for graduate credit for this certificate; therefore, they cannot take both ENGL427 and ENGL428 for graduate credit. They must take one or the other of these classes.

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs
- ENGL 444 - Writing for the World Wide Web Credit Hours: 3 hrs
- ENGL 487 - Cooperative Education in English Credit Hours: 3 hrs
- ENGL 488 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 489 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 490 - Internship in Technical Writing Credit Hours: 3 hrs
- JRNL 408 - Case Studies in Public Relations Credit Hours: 3 hrs
- JRNL 423 - Magazine Article Writing Credit Hours: 3 hrs
- JRNL 453 - Advanced Reporting Credit Hours: 3 hrs
- JRNL 454 - Contemporary Problems in Journalism Credit Hours: 3 hrs
- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
- LING 402 - Modern English Grammar Credit Hours: 3 hrs
- LING 415 - Women and Language Credit Hours: 3 hrs
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
- LING 421 - The History of the English Language Credit Hours: 3 hrs
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
- LING 426 - Topics in Linguistics Credit Hours: 3 hrs
- LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
- LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
- LITR 405 - Shakespeare Credit Hours: 3 hrs
Master's

Master of Arts in Children's Literature (CHL)

Adviser: Annette Wannamaker, PhD.
603L Pray Harrold
734.487.0148
awannamak@emich.edu

Objectives
The M.A. in children’s literature is designed to provide master's level competency in all major areas of children’s literature, including folklore, mythology, literary theory, illustrated texts and multicultural children's literature. The degree is an appropriate choice for candidates who anticipate teaching on the elementary, middle, or junior high school levels, as well as special education teachers, reading specialists, librarians, authors and editors of children’s books. It also provides preparation for college teachers of children’s literature and for those who anticipate undertaking doctoral studies.

Program Requirements
A candidate completes a major of 21 hours in the department’s courses in children's literature.

Required Courses: 21 hours
- CHL 516 - Introduction to Graduate Studies in Children's Literature Credit Hours: 3 hrs
- CHL 585 - Children's Literature: Criticism and Response Credit Hours: 3 hrs

Five courses from the following:
- CHL 517 - Children's Literature for Teachers Credit Hours: 3 hrs
- CHL 518 - History of Children's Literature Credit Hours: 3 hrs
- CHL 581 - Critical Approaches to Mythology Credit Hours: 3 hrs
- CHL 582 - Folktales, Legends and Ballads Credit Hours: 3 hrs
- CHL 583 - Children's Illustrated Texts Credit Hours: 3 hrs
- CHL 584 - Literature for Adolescents Credit Hours: 3 hrs
- CHL 586 - Multicultural Children's Literature Credit Hours: 3 hrs
- CHL 587 - Children's Media Studies Credit Hours: 3 hrs
- CHL 588 - Topics in Children's Literature Credit Hours: 3 hrs

Elective Courses: 0-9 hours
Select additional children’s literature courses from the above list or appropriate courses in literature, writing, linguistics or thesis.

Cognate Courses: 0-6 hours
Select in consultation with the program coordinator.

Program Total 30 hours

M.A. Examination
During the semester before graduation, a candidate is required to pass a written examination in children’s literature covering a broad spectrum of periods, genres and critical theory. A new list of works is posted each September.

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
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- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
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- LING 415 - Women and Language Credit Hours: 3 hrs
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
- LING 421 - The History of the English Language Credit Hours: 3 hrs
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
- LING 426 - Topics in Linguistics Credit Hours: 3 hrs
- LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
- LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
- LITR 405 - Shakespeare Credit Hours: 3 hrs
- LITR 411 - Studies in Epic and Romance Credit Hours: 3 hrs
- LITR 413 - The Poetry of Chaucer Credit Hours: 3 hrs
- LITR 440 - Genre Studies Credit Hours: 3 hrs
- LITR 443 - Women in Literature Credit Hours: 3 hrs
- LITR 450 - Major Authors Credit Hours: 3 hrs

Master of Arts in Creative Writing (CW)

Adviser: Christine Hume, PhD.
602C Pray Harrold
734.487.1310
chume@emich.edu
Objectives
This program provides advanced, individualized work in creative writing and contemporary studies. It prepares writers to continue their creative work and to teach creative writing, English, humanities or contemporary studies. Applicants must submit a portfolio of their creative writing and meet the general requirements for admission to the graduate program in English language and literature. The portfolio may replace part of the 24 hours of undergraduate course work in English.

Course Requirements:
The M.A. in creative writing requires 30 hours of course work to be distributed among required courses, restricted elective courses and cognate courses as follows:

Required Courses: 12 hours
- CRTW 522 - Writing Workshop Credit Hours: 3 hrs
- ENGL 693 - Master’s Writing Project Credit Hours: 3 hrs

Restricted Elective Courses: 9 hours
- Other courses with permission of adviser
- CRTW 523 - Writing Workshop: Poetry Credit Hours: 3 hrs
- CRTW 524 - Writing Workshop: Fiction Credit Hours: 3 hrs
- CRTW 525 - Writing Workshop: Creative Nonfiction Credit Hours: 3 hrs
- CRTW 526 - Writing Workshop: Sound Poetry Credit Hours: 3 hrs
- CRTW 527 - Writing Workshop: The Lyric Essay Credit Hours: 3 hrs
- CRTW 528 - Writing Workshop: Interactive Narrative Credit Hours: 3 hrs
- CRTW 529 - Writing Workshop: Mixed Media Credit Hours: 3 hrs
- LITR 526 - Studies in African American Literature to 1945 Credit Hours: 3 hrs
- LITR 566 - Studies in 20th Century British Fiction Credit Hours: 3 hrs
- LITR 567 - Studies in 20th Century Irish Literature Credit Hours: 3 hrs
- LITR 576 - Studies in 20th Century American Fiction Credit Hours: 3 hrs
- LITR 580 - Studies in Contemporary Literary Trends Credit Hours: 3 hrs

Cognate Courses: 9 hours
Nine hours selected in consultation with the graduate coordinator. Courses from any area of contemporary studies — art, foreign language literature, music, history, philosophy, etc.

Program Total: 30 hours

Note:
Footnote:
This course may be repeated for credit.

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
Master of Arts in English Studies for Teachers (EST)

This graduate program is intended for teachers who are interested in pursuing further studies in the teaching of English at the secondary level. Designed to offer both substantive work in the content knowledge of English studies and flexibility for practicing professionals, the program emphasizes knowledge, inquiry and community.

- **Knowledge**: In keeping with the interdisciplinary knowledge base that is at the center of English education, students in this program study in the areas of literature, writing and language, having the opportunity to complete course work in all these areas. Throughout this study, students also focus on pedagogical content knowledge - considering the research base, historical precedents, current conversations and controversies surrounding the teaching of English at the secondary level.

- **Inquiry**: Students are encouraged to study this knowledge base from an inquiry stance: raising important questions about how such knowledge connects to their own contexts and circumstances and pursuing their own inquiry questions from the very beginning of the program. This inquiry stance is capped off by the program's culminating project: a year long immersion in teacher research in which students design a research question based in their own concerns and study their own teaching and their students' learning.

- **Community**: Current understandings of professional development support the notion of teacher learning communities as an important means of helping teachers both sustain new knowledge and transfer that knowledge to the classroom. In keeping with that stance, this program strives to help teachers make connections - both within the program (through a cohort group structure and structured online conversations) and as part of a larger professional community (participating in local, state and national conferences and completing a culminating project intended for publication).

In keeping with these three general emphases, the program sets the following as its goals and objectives:
1. To immerse students in ongoing professional conversations in the field of English education.
2. To invite students to reflect upon their own pedagogies and to situate them within those professional conversations.
3. To urge students to raise strategic questions about pertinent issues in teaching secondary English, especially as reflected in their own teaching and the teaching encouraged in their school districts.
4. To immerse students in further, concentrated reading in English studies, increasing their knowledge base in language, literature and writing.
5. To understand the elements of classroom-based research, such that they can begin serious study of their own classrooms.
6. To introduce students to the larger professional communities available locally and nationally: Eastern Michigan Writing Project, National Writing Project, Michigan Council of Teachers of English, National Council of Teachers of English, etc.
7. To prepare students to take leadership roles in their own schools.

To complete the program, students will demonstrate their participation in the larger professional community in two ways:

1. Presentation of their final research project at the annual Master of Arts in English Studies for Teachers Celebration Conference.
2. Attendance at two local, regional or national conferences focused on the teaching of English. Short reflective pieces about these conferences should be turned in to an adviser in the student's last semester of the program.

Admission Requirements

1. Applicants must have:
   o a teaching certificate in English.
   o at least two years experience in teaching.
   o an undergraduate GPA of 3.0.
2. Applicants must submit a portfolio containing the following:
   o two letters of recommendation.
   o statement of purpose describing both their philosophy of teaching English and reasons for pursuing this program.
   o a transcript.
   o one other document which will give us a better understanding of them as an English teacher (i.e. a writing sample from an undergraduate class, a grant proposal, a curriculum unit, etc.).

Conditional admits are possible. In order to satisfy the condition, students must receive at least a B+ in their introductory course, ENGL530 Issues in English Studies for Teachers. Other expectations may be specified based on the academic backgrounds of particular students.

Required Courses: 21 hours

- Two 3-credit courses with the *Literature for Teachers* designation
- ENGL 530 - Issues in English Studies for Teachers Credit Hours: 3 hrs
- ENGL 535 - Teacher Research Seminar Credit Hours: 6 hrs

Choose one option from the following:

Option I:

- ENGL 590 - Special Topics Credit Hours: 1 hr
- ENGL 675 - Eastern Michigan Writing Project Summer Institute Credit Hours: 5 hrs

Option II:

- ENGL 514 - Issues in Teaching Writing Credit Hours: 3 hrs
- ENGL 531 - Teacher as Writer Credit Hours: 3 hrs

Elective Courses: 9 hours
Three graduate level courses in literature, children's literature, linguistics or writing chosen in consultation with an adviser.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs
- ENGL 444 - Writing for the World Wide Web Credit Hours: 3 hrs
- ENGL 487 - Cooperative Education in English Credit Hours: 3 hrs
- ENGL 488 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 489 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 490 - Internship in Technical Writing Credit Hours: 3 hrs
- JRNL 408 - Case Studies in Public Relations Credit Hours: 3 hrs
- JRNL 423 - Magazine Article Writing Credit Hours: 3 hrs
- JRNL 453 - Advanced Reporting Credit Hours: 3 hrs
- JRNL 454 - Contemporary Problems in Journalism Credit Hours: 3 hrs
- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
- LING 402 - Modern English Grammar Credit Hours: 3 hrs
- LING 415 - Women and Language Credit Hours: 3 hrs
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
- LING 421 - The History of the English Language Credit Hours: 3 hrs
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
- LING 426 - Topics in Linguistics Credit Hours: 3 hrs
- LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
- LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
- LITR 405 - Shakespeare Credit Hours: 3 hrs
- LITR 411 - Studies in Epic and Romance Credit Hours: 3 hrs
- LITR 413 - The Poetry of Chaucer Credit Hours: 3 hrs
- LITR 440 - Genre Studies Credit Hours: 3 hrs
- LITR 443 - Women in Literature Credit Hours: 3 hrs
- LITR 450 - Major Authors Credit Hours: 3 hrs

Master of Arts in Literature (LITR)

Adviser: Andrea Kaston-Tange, PhD.
603N Pray Harrold
Objectives
The M.A. in literature provides master’s-level competence in English and American literature. The degree is appropriate for teachers on the elementary, high school or community college level and for students planning to pursue doctoral study in English or American literature. The degree provides a valuable educational background for professions where critical thinking and clear, accurate expression, combined with a knowledge of literature, are desired.

Program Requirements
Students must complete a major of 18 hours in the department’s courses in English and American literature (excluding children’s literature, for which there is a separate degree).

Course Requirements:
The M.A. in literature requires 30 hours of course work to be distributed among required courses, major program courses, elective courses and cognate courses as follows:

Required Courses: 24 hours
- LITR 510 - Critical Practices in Literary Studies Credit Hours: 3 hrs
- LITR 511 - Literary Criticism Credit Hours: 3 hrs
a) Old English, Medieval English, and Renaissance Literature: 6 hours
  - LITR 512 - Middle English Literature Credit Hours: 3 hrs
  - LITR 520 - Old English Poetry Credit Hours: 3 hrs
  - LITR 530 - Studies in Chaucer Credit Hours: 3 hrs
  - LITR 540 - Elizabethan and Jacobean Drama Credit Hours: 3 hrs
  - LITR 541 - Studies in Shakespeare Credit Hours: 3 hrs
  - LITR 545 - Studies in Renaissance Literature Credit Hours: 3 hrs
b) Eighteenth and Nineteenth Century Literature
  - LITR 523 - Realism and Naturalism in American Literature Credit Hours: 3 hrs
  - LITR 561 - Studies in 18th Century Literature Credit Hours: 3 hrs
  - LITR 563 - Studies in 18th Century Fiction Credit Hours: 3 hrs
  - LITR 565 - Studies in 19th Century British Fiction Credit Hours: 3 hrs
  - LITR 568 - Studies in 19th Century American Poetry Credit Hours: 3 hrs
  - LITR 569 - The American Renaissance: 1830-1860 Credit Hours: 3 hrs
  - LITR 570 - Studies in Romantic Literature Credit Hours: 3 hrs
  - LITR 575 - Studies in Victorian Literature Credit Hours: 3 hrs
c) Twentieth Century and Contemporary Literature
  - LITR 526 - Studies in African American Literature to 1945 Credit Hours: 3 hrs
  - LITR 527 - Studies in African American Literature Since 1945 Credit Hours: 3 hrs
  - LITR 566 - Studies in 20th Century British Fiction Credit Hours: 3 hrs
  - LITR 567 - Studies in 20th Century Irish Literature Credit Hours: 3 hrs
  - LITR 576 - Studies in 20th Century American Fiction Credit Hours: 3 hrs
  - LITR 577 - Studies in 20th Century American Poetry Credit Hours: 3 hrs
  - LITR 580 - Studies in Contemporary Literary Trends Credit Hours: 3 hrs

Elective or Cognate Courses: 6 hours

Program Total: 30 hours
Additional Requirements:

In addition to required coursework, the student must either take the MA exam in Literature or submit a Thesis, in order to complete degree. The Thesis option both counts as the culminating event of the degree, and gives the student three hours of credit towards the elective portion of the coursework.

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs
- ENGL 444 - Writing for the World Wide Web Credit Hours: 3 hrs
- ENGL 487 - Cooperative Education in English Credit Hours: 3 hrs
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- ENGL 489 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 490 - Internship in Technical Writing Credit Hours: 3 hrs
- JRNL 408 - Case Studies in Public Relations Credit Hours: 3 hrs
- JRNL 423 - Magazine Article Writing Credit Hours: 3 hrs
- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
- LING 402 - Modern English Grammar Credit Hours: 3 hrs
- LING 415 - Women and Language Credit Hours: 3 hrs
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
- LING 421 - The History of the English Language Credit Hours: 3 hrs
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
- LING 426 - Topics in Linguistics Credit Hours: 3 hrs
- LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
- LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
- LITR 405 - Shakespeare Credit Hours: 3 hrs
- LITR 411 - Studies in Epic and Romance Credit Hours: 3 hrs
- LITR 413 - The Poetry of Chaucer Credit Hours: 3 hrs
- LITR 440 - Genre Studies Credit Hours: 3 hrs
- LITR 443 - Women in Literature Credit Hours: 3 hrs
- LITR 450 - Major Authors Credit Hours: 3 hrs

Master of Arts in Written Communication (WRCM)

Adviser: Cheryl Cassidy, PhD.
602Q Pray Harrold
This program prepares students for careers in professional writing, editing and publishing, or the teaching of writing at the elementary, secondary or community college levels. It also provides thorough preparation for Ph.D. studies in rhetoric and composition.

Applicants may combine academic and professional experience in support of their application.

Course Requirements:

The M.A. in written communication requires 30-32 hours from one of the options below:

Option I: Teaching and Writing:

Required Courses: 21-23 hours

- ENGL 503 - Rhetorical Theory and the Teaching of Writing Credit Hours: 3 hrs
- ENGL 515 - Literacy and Written Literacy Instruction Credit Hours: 3 hrs
- ENGL 516 - Computers and Writing: Theory and Practice Credit Hours: 3 hrs
- ENGL 621 - Research in Theory and Practice of Writing Credit Hours: 3 hrs

One course from the following:

- ENGL 514 - Issues in Teaching Writing Credit Hours: 3 hrs
- ENGL 675 - Eastern Michigan Writing Project Summer Institute Credit Hours: 5 hrs

One course from the following:

- ENGL 517 - Topics in the Teaching of Writing Credit Hours: 3 hrs
- ENGL 518 - Topics in English Education Credit Hours: 3 hrs

One course from the following:

- ENGL 692 - Thesis Credit Hours: 3 hrs
- ENGL 693 - Master's Writing Project Credit Hours: 3 hrs
- ENGL 694 - Teacher Research/Professional Writing Internship Credit Hours: 3 hrs

Elective Courses and Cognates: 9 hours

Students select from among courses in writing, linguistics, literature, reading, teaching English as a second language, communication theory, computer science, measurement and evaluation, psychology, statistics.

Program Total: 30-32 hours

Option II: Professional Writing:

Required Courses: 18 hours

- ENGL 505 - Rhetoric of Science and Technology Credit Hours: 3 hrs
- ENGL 524 - Advanced Technical Writing and Research Credit Hours: 3 hrs
- ENGL 525 - Advanced Public Relations Writing Credit Hours: 3 hrs
- ENGL 621 - Research in Theory and Practice of Writing Credit Hours: 3 hrs

One course from the following:

- ENGL 526 - Topics in Technical Communication Credit Hours: 3 hrs
- ENGL 527 - Topics in Professional Communication Credit Hours: 3 hrs

One course from the following:

- ENGL 692 - Thesis Credit Hours: 3 hrs
- ENGL 693 - Master's Writing Project Credit Hours: 3 hrs
- ENGL 694 - Teacher Research/Professional Writing Internship Credit Hours: 3 hrs
Elective Courses and Cognates: 18 hours

Students select from among courses in writing, linguistics, literature, graphic design, communication theory, computer science, science, industrial technology.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: English Language and Literature

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CHL 450 - Children's Literature: Criticism and Response Credit Hours: 3 hrs
- CHL 451 - Writing about Controversies in Literature for the Young Credit Hours: 3 hrs
- CRTW 422 - Writer's Workshop: Fiction or Poetry Credit Hours: 3 hrs
- CRTW 426 - Contemporary Forms Credit Hours: 3 hrs
- ENGL 408 - Writing for Writing Teachers Credit Hours: 3 hrs
- ENGL 409 - Teaching English in the Secondary Schools Credit Hours: 3 hrs
- ENGL 417 - Writing about Controversies Credit Hours: 3 hrs
- ENGL 424 - Technical Writing Credit Hours: 3 hrs
- ENGL 427 - Technical Editing Credit Hours: 3 hrs
- ENGL 428 - Writing Computer Documentation Credit Hours: 3 hrs
- ENGL 444 - Writing for the World Wide Web Credit Hours: 3 hrs
- ENGL 487 - Cooperative Education in English Credit Hours: 3 hrs
- ENGL 488 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 489 - Internship in Technical Writing Credit Hours: 3 hrs
- ENGL 490 - Internship in Technical Writing Credit Hours: 3 hrs
- JRNL 408 - Case Studies in Public Relations Credit Hours: 3 hrs
- JRNL 423 - Magazine Article Writing Credit Hours: 3 hrs
- JRNL 438 - Advanced Reporting Credit Hours: 3 hrs
- JRNL 445 - Contemporary Problems in Journalism Credit Hours: 3 hrs
- JRNL 455 - Journalism and the Law Credit Hours: 3 hrs
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
- LING 402 - Modern English Grammar Credit Hours: 3 hrs
- LING 415 - Women and Language Credit Hours: 3 hrs
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
- LING 421 - The History of the English Language Credit Hours: 3 hrs
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
- LING 426 - Topics in Linguistics Credit Hours: 3 hrs
- LING 434 - The Linguistic Analysis of Literature Credit Hours: 3 hrs
- LITR 400 - Narrative in Literature and Film Credit Hours: 3 hrs
- LITR 405 - Shakespeare Credit Hours: 3 hrs
- LITR 411 - Studies in Epic and Romance Credit Hours: 3 hrs
- LITR 413 - The Poetry of Chaucer Credit Hours: 3 hrs
- LITR 414 - Genre Studies Credit Hours: 3 hrs
- LITR 443 - Women in Literature Credit Hours: 3 hrs
- LITR 450 - Major Authors Credit Hours: 3 hrs
Geography and Geology Programs

Geography and Geology

Address: 205 Strong
Phone: 734.487.0218
E-mail: geogandgeol@emich.edu
Web site: www.emich.edu/public/geo/welcome.html

The department offers master of science degrees in earth science education, geographic information systems (GIS); urban and regional planning; historic preservation — general studies; historic preservation — conservation and technology; historic preservation — heritage interpretation; historic preservation — tourism and administration; historic preservation — planning; and graduate certificates in historic preservation, GIS and in water resources.

The department awards several graduate assistantships each year, providing cash stipends and full tuition for 18 hours for each fiscal year of the assistantship, as well as registration and general fee. Fellowships are also awarded, when finances permit, to qualified students with high GPAs who may or may not be receiving other financial assistance.

Graduate and Geology Programs and Courses

Graduate Certificate

Graduate Certificate in Geographic Information Systems (GIS) for Educators

Adviser: Hugh Semple, PhD.
213 Strong
734.487.0218
hugh.semple@emich.edu

A five-course curriculum, granting a certificate of completion and satisfactory academic performance, is available for non-degree students. It is designed primarily for K-16 teachers, curriculum specialists and others interested in GIS applications in classrooms and school environments.

Admission Requirements
Certificate curriculum applicants must have a bachelor’s degree from an accredited institution and meet Graduate School admission requirements.

Certificate Requirements

Following admission, the student should consult with the GIS educator’s certificate program coordinator regarding the set up of a study plan. This certificate requires 15 hours of required course work as follows:

Restricted Elective Courses: 15 hours

- ESSC 669 - GIS Lesson: Plan Development Credit Hours: 3 hrs
- GEOG 520 - GIS Introduction for Educators Credit Hours: 3 hrs
- GEOG 522 - Internet GIS for Educators Credit Hours: 3 hrs
- GEOG 524 - GIS As an Instructional Tool in Classrooms Credit Hours: 3 hrs
• GEOG 667 - School GIS Project Credit Hours: 3 hrs
• GEOG 669 - GIS Lesson Plan Development Credit Hours: 3 hrs
Certificate Total: 15 hours

Note:

Footnote:
GEOG 667 can be taken as an online course, as a course on EMU’s campus or the student can use a replacement of GEOG 667 by a non-credit institute (workshop) experience.

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

• GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

• GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
• GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
• GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
• GEOG 477 - Special Topics Credit Hours: 1 hr
• GEOG 478 - Special Topics Credit Hours: 2 hrs
• GEOG 479 - Special Topics Credit Hours: 3 hrs
• GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
• GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
• GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

• ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
• ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
• ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
• ESSC 439 - Economic Geology Credit Hours: 3 hrs
• ESSC 448 - Hydrogeology Credit Hours: 3 hrs
• ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
• ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
• ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
• ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
• ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Graduate Certificate in Geographic Information Systems (GIS) for Professionals

Adviser: Yichun Xie, PhD.
205 Strong
734.487.0218
yxie@emich.edu
A five-course curriculum, granting a certificate of completion and satisfactory academic performance, is available for non-degree students. It is designed for GIS specialists, technicians, planners, information technology professionals and others interested in using geographic information technology in jobs or for careers.

**Admission Requirements**
Certificate curriculum applicants must have a bachelor’s degree from an accredited institution and meet Graduate School admission requirements.

**Certificate Requirements**
Following admission, the student should consult with the GIS professional certificate program coordinator regarding the set up of a study plan. This certificate requires 15 hours of required course work as follows:

**Restricted Elective Courses:** 15 hours
- GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
- GEOG 584 - Visual Programming for GIS Customization Credit Hours: 3 hrs
- GEOG 585 - Geographic Information Systems Applications Credit Hours: 3 hrs
- GEOG 668 - GIS Project Credit Hours: 3 hrs
- GEOG 678 - Advanced Applications of GIS Credit Hours: 3 hrs

Certificate Total: 15 hours

**Undergraduate Courses for Graduate Credit: Geography and Geology**
The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

**Historic Preservation Courses:**
- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

**Geography Courses:**
- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
- GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

**Earth Science Courses:**
- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
- ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs
Graduate Certificate in Historic Preservation (HPRS)

Adviser: Ted J. Ligibel, PhD.
235 Strong
734.487.0232
tligibel@emich.edu

A five-course curriculum, granting a certificate for completion and satisfactory academic performance, is available for non-degree students. It is designed for planners, historic-district commissioners and others interested in the preservation field.

Admission Requirements
Certificate curriculum applicants must have a bachelor’s degree from an accredited institution and meet Graduate School admission requirements.

Certificate Requirements
Following admission, the student should consult with the historic preservation program coordinator regarding completion of the course requirements. This certificate requires 11 to 14 hours of course work distributed among required courses and restricted elective courses as follows:

Required Courses: 5 hours

- ART 429 - History of American Architecture Credit Hours: 3 hrs
- GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs

Restricted Elective Courses: 7-9 hours

Seven to nine hours from the following:

- Any 500- or 600-level GHPR courses except GHPR 587, GHPR 637, GHPR 687/688/689, GHPR 690/691/692 and GHPR 697/698/699
- GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
- GEOG 548 - American Vernacular Architecture Credit Hours: 2 hrs
- GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
- GHPR 531 - Preservation and Planning Law Credit Hours: 3 hrs
- GHPR 620 - Preservation Research Techniques Credit Hours: 2 hrs
- GHPR 651 - Principles of Preservation Technology Credit Hours: 2 hrs
- GHPR 695 - Seminar in Preservation Issues Credit Hours: 2 hrs
- GHPR 696 - Seminar in Preservation Issues Credit Hours: 3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs

See footnote below
Certificate Total: 12-14 hours

Note:

Footnote: Must be taken for graduate credit. Students must submit a request form from the Graduate School to enroll in an advanced 400-level undergraduate course for graduate credit.

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.
Historic Preservation Courses:

- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
- GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
- ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Master's

Master of Science in Earth Science Education (ESE)

Adviser: Sandra Rutherford, PhD.
236 Strong
734.487.8588
srutherf@emich.edu

The M.S. in Earth Science Education requires the completion of 30 hours of coursework to be distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 15 hours

- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 557 - Field Investigations in Earth Science Credit Hours: 6 hrs
- ESSC 565 - New Approaches to Teaching Earth Science Credit Hours: 3 hrs
- ESSC 665 - Professional Paper Credit Hours: 3 hrs

Restricted Elective Courses: 9-15 hours

Nine to fifteen hours from the following:

- ESSC 414 - Teaching Science with Dinosaurs Credit Hours: 3 hrs
- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
• ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
• ESSC 495 - Environmental Assessment and Planning Credit Hours: 3 hrs
• ESSC 520 - GIS Introduction for Educators Credit Hours: 3 hrs
• ESSC 522 - Internet GIS for Educators Credit Hours: 3 hrs
• ESSC 524 - GIS As an Instructional Tool in Classrooms Credit Hours: 3 hrs
• ESSC 566 - Advanced Plate Tectonics for Educators Credit Hours: 3 hrs
• ESSC 567 - Paleoclimatology Credit Hours: 3 hrs
• ESSC 569 - Principles of Hydrology for Educators Credit Hours: 3 hrs
• ESSC 590 - Special Topics Credit Hours: 1 hr
• ESSC 591 - Special Topics Credit Hours: 2 hrs
• ESSC 592 - Special Topics Credit Hours: 3 hrs
• ESSC 597 - Independent Study Credit Hours: 1 hr
• ESSC 598 - Independent Study Credit Hours: 2 hrs
• ESSC 599 - Independent Study Credit Hours: 3 hrs
• ESSC 667 - School GIS Project Credit Hours: 3 hrs
• ESSC 669 - GIS Lesson: Plan Development Credit Hours: 3 hrs
• GEOG 563 - Climate Credit Hours: 2 hrs
• GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
• GEOG 582 - Remote Sensing of Earth Resources Credit Hours: 3 hrs

Cognate Courses: 0-6 hours

Zero to six credit hours of science-based coursework from other departments selected in consultation with the Earth Science graduate coordinator.

Program Total: 30 hours

Note:

Footnote One:
A maximum of nine hours of 400-level coursework can be applied to meet graduation requirements.

Footnote Two:
A maximum of 12 hours of special topics, independent study and graduate seminar coursework, in combination, can be applied to meet graduation requirements.

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

• GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

• GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
• GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
• GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
• GEOG 477 - Special Topics Credit Hours: 1 hr
• GEOG 478 - Special Topics Credit Hours: 2 hrs
• GEOG 479 - Special Topics Credit Hours: 3 hrs
• GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
• GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
• GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

• ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
• ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
• ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
• ESSC 439 - Economic Geology Credit Hours: 3 hrs
• ESSC 448 - Hydrogeology Credit Hours: 3 hrs
• ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
• ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
• ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
• ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
• ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Master of Science in Geographic Information Systems (GIS)

Web site: www.emich.edu/public/geo/geography/GISurban.htm

Objectives
The M.S. in geographic information systems (GIS) prepares students to work as GIS analysts, applied researchers and consultants providing expertise in this area of computer mapping analysis and application development. GIS technologies are widely utilized in the U.S. and abroad and there is a high demand for these skills.

Admission Requirements
1. 2.75 GPA from a regionally accredited undergraduate institution and/or at least 1500 on the aptitude test of the GRE
2. International students must receive a minimum score on the TOEFL language examination. See Admissions web site at www.emich.edu/admissions for minimum scores.
3. A minimum of two letters of recommendation, preferably one from a professor in the student’s major/minor field of study and one from an employer. If the student does not have related work experience then two letters from faculty members in the student’s major or minor field of study will be required.
4. Class status: undergraduate degree from an accredited college/University; senior standing for conditional admission.

Course Requirements:

The M.S. in geographic information systems requires 36 credit hours of course work distributed among required courses, elective courses and thesis or internship courses as follows.

Required Courses: 30-32 hours

• GEOG 505 - Seminar in Methods and Research Credit Hours: 2 hrs
• GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
• GEOG 555 - Comprehensive Planning Credit Hours: 2 hrs
• GEOG 575 - Interpretation of Aerial Photography Credit Hours: 3 hrs
• GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
• GEOG 581 - Advanced Environmental Assessment Credit Hours: 3 hrs
• GEOG 584 - Visual Programming for GIS Customization Credit Hours: 3 hrs
• GEOG 668 - GIS Project Credit Hours: 3 hrs
• GEOG 674 - Professional Publication/ Report Credit Hours: 2 hrs
• GEOG 678 - Advanced Applications of GIS Credit Hours: 3 hrs

One of the following internship courses or equivalent:

See footnote below

• GEOG 687 - Internship in Geography/Geology Credit Hours: 4 hrs
• GEOG 688 - Internship in Geography/Geology Credit Hours: 5 hrs
• GEOG 689 - Internship in Geography/Geology Credit Hours: 6 hrs

Restricted Elective Courses: 4-7 hours

Four to seven hours from the following:
• CTAC 508 - Small Group Decision-Making Credit Hours: 2 hrs
• CTAC 509 - Communication for Leaders Credit Hours: 2 hrs
• CTAC 510 - Listening Skills for Professionals Credit Hours: 2 hrs
• ENGL 524 - Advanced Technical Writing and Research Credit Hours: 3 hrs
• GEOG 556 - Zoning Credit Hours: 2 hrs
• GEOG 557 - Community Development and Downtown Revitalization Credit Hours: 3 hrs
• GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
• GEOG 580 - Urban Environmental Management Credit Hours: 2 hrs
• GEOG 582 - Remote Sensing of Earth Resources Credit Hours: 3 hrs
• GEOG 585 - Geographic Information Systems Applications Credit Hours: 3 hrs
• GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
• GHPR 638 - Preserving Community Character Credit Hours: 2 hrs
• PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
• PLSC 655 - Politics of Local Planning Credit Hours: 2 hrs
• SOCL 656 - Human Ecology and Community Development Credit Hours: 3 hrs

Program Total 36 hours

Note:

Footnote:
Equivalency: If a student is employed in a GIS position, a portfolio of work completed during employment may substitute for the internship requirement and credits. The acceptability of the portfolio will be determined by the program adviser. If an internship is not feasible, a student may request a six credit thesis to replace the Internship and Professional Publication/Report requirements.

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:
• GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:
• GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
• GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
• GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
• GEOG 477 - Special Topics Credit Hours: 1 hr
• GEOG 478 - Special Topics Credit Hours: 2 hrs
• GEOG 479 - Special Topics Credit Hours: 3 hrs
• GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
• GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
• GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:
• ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
• ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Master of Science in Historic Preservation - General Studies (HPRS)

Adviser: Ted J. Ligibel, PhD.
235 Strong
734.487.0232
tligibel@emich.edu
Web site:  http://www.emich.edu/public/geo/HP/HP.html

The M.S. in historic preservation — general studies requires a minimum of 36 hours. The master’s curriculum emphasizes preparation for careers in historic preservation in a planning, administrative, historic museum, consulting or heritage tourism capacity. It provides practical experience through work study, internship, cooperative education and field study opportunities.

Admission Requirements

Degree Admission
Applicants must:
1. Have a bachelor’s degree from an accredited institution;
2. Meet Graduate School admission requirements; and
3. Have attained at least a 2.75 grade point average in the major field during the last two undergraduate years.

In addition to completing the university application form, the applicant must obtain program application forms from the historic preservation coordinator and follow all application procedures.

Conditional Admission
Otherwise promising students who do not meet Graduate School or departmental undergraduate GPA requirements may be granted conditional admission. Students who fulfill the probationary requirements may be granted regular admission.

Degree Requirements
1. Selection, in consultation with the program adviser, of a course of study in historic preservation.
2. Completion of 36 hours of approved graduate-level course work beyond the bachelor’s degree as described below under course requirements.
3. Completion of prerequisite courses. The number of hours and the specific courses will be stipulated by the program adviser according to the student’s prior course work.

Prerequisites:
Students must complete course work in each of the following foundation areas or have acceptable undergraduate equivalent, in which case the course may be waived.

- ART 429 - History of American Architecture Credit Hours: 3 hrs
- GEOG 333 - Settlement Geography Credit Hours: 3 hrs
- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs
The M.S. in historic preservation — general studies requires 36 credit hours of course work to be distributed among core, required and restricted elective courses as follows:

Core Courses: 16-18 hours

- GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
- GEOG 548 - American Vernacular Architecture Credit Hours: 2 hrs
- GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
- GHPR 547 - Problems in Architectural Interpretation Credit Hours: 2 hrs
- GHPR 551 - Principles of Building Technology Credit Hours: 2 hrs
- GHPR 620 - Preservation Research Techniques Credit Hours: 2 hrs
- GHPR 636 - Historic Preservation Field Project Credit Hours: 3 hrs

Choose one course from the following:

- GHPR 690 - Historic Preservation Project Credit Hours: 1 hr
- GHPR 691 - Historic Preservation Project Credit Hours: 2 hrs
- GHPR 692 - Historic Preservation Project Credit Hours: 3 hrs

Required Courses: 13-14 hours

Courses are chosen that create a focused historic preservation approach in an area of concentration of the student’s choosing, selected with adviser approval. Courses may be chosen from relevant historic preservation, geography or geographic information systems and planning program offerings.

Restricted Elective Courses: 8-10 hours

Courses may include any other relevant historic preservation-related electives including appropriate cognate courses.

Program Total: 36 hours

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
•  GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

•  ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
•  ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
•  ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
•  ESSC 439 - Economic Geology Credit Hours: 3 hrs
•  ESSC 448 - Hydrogeology Credit Hours: 3 hrs
•  ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
•  ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
•  ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
•  ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
•  ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Master of Science in Historic Preservation - Heritage Interpretation, Tourism and Administration (HPAD)

Adviser: Ted J. Ligibel, PhD.
235 Strong
734.487.0232
tligibel@emich.edu
Web site: http://www.emich.edu/public/geo/HP/HP.html

The M.S. in historic preservation-heritage interpretation, tourism and administration requires a minimum of 36 hours. The master’s curriculum emphasizes preparation for careers in historic preservation in an administrative, historic museum, consulting or heritage tourism capacity. It provides practical experience through work study, internship, cooperative education and field study opportunities.

Admission Requirements

Degree Admission
Applicants must:
1. Have a bachelor’s degree from an accredited institution;
2. Meet Graduate School admission requirements; and
3. Have attained at least a 2.75 grade point average in the major field during the last two undergraduate years.

In addition to completing the university application form, the applicant must obtain program application forms from the historic preservation coordinator and follow all application procedures.

Conditional Admission
Otherwise promising students who do not meet Graduate School or departmental undergraduate GPA requirements may be granted conditional admission. Students who fulfill the probationary requirements may be granted regular admission.

Degree Requirements

1. Selection, in consultation with the program adviser, of a general course of study in historic preservation.
2. Completion of 36 hours of approved graduate-level course work beyond the bachelor’s degree as described below under course requirements.
3. Completion of prerequisite courses. The number of hours and the specific courses will be stipulated by the program adviser according to the student’s prior course work.

Prerequisites:

Students must complete course work in each of the following foundation areas or have acceptable undergraduate equivalent, in which case the course may be waived.

•  ART 429 - History of American Architecture Credit Hours: 3 hrs
• GEOG 333 - Settlement Geography Credit Hours: 3 hrs
• GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
• GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs
• HIST 123 - The United States to 1877 Credit Hours: 3 hrs
• HIST 124 - The United States, 1877 to the Present Credit Hours: 3 hrs

Course Requirements

The M.S. in historic preservation — heritage interpretation, tourism and administration requires 36 hours of course work to be distributed among core and restricted elective courses as follows:

Core Courses: 16-18 hours

• GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
• GEOG 548 - American Vernacular Architecture Credit Hours: 2 hrs
• GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
• GHPR 547 - Problems in Architectural Interpretation Credit Hours: 2 hrs
• GHPR 551 - Principles of Building Technology Credit Hours: 2 hrs
• GHPR 620 - Preservation Research Techniques Credit Hours: 2 hrs
• GHPR 636 - Historic Preservation Field Project Credit Hours: 3 hrs

Choose one course from the following:

• GHPR 690 - Historic Preservation Project Credit Hours: 1 hr
• GHPR 691 - Historic Preservation Project Credit Hours: 2 hrs
• GHPR 692 - Historic Preservation Project Credit Hours: 3 hrs

Required Courses: 13 hours

• GHPR 532 - Introduction to Curatorship Credit Hours: 3 hrs
• GHPR 533 - Introduction to Historic Administration Credit Hours: 2 hrs
• GHPR 534 - Community Interpretation and Appropriate Tourism Credit Hours: 3 hrs
• GHPR 537 - Interpretive Programming for Organizations Credit Hours: 3 hrs
• GHPR 538 - Historic Preservation and Tourism Credit Hours: 2 hrs

Restricted Elective Courses: 4-7 hours

Courses selected with adviser approval

• GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs

And other relevant Historic Preservation Program electives and/or selected cognates, with permission of program adviser.

• GEOG 541 - Material Cultures: A Disciplinary Overview Credit Hours: 3 hrs
• GEOG 549 - Cultural Landscape Interpretation Credit Hours: 2 hrs
• GHPR 539 - American Decorative Arts Credit Hours: 3 hrs
• GHPR 572 - Funding Preservation Projects Credit Hours: 2 hrs
• GHPR 587 - Cooperative Education in Cultural Resource Management Credit Hours: 3 hrs
• GHPR 630 - Documenting Historical Places Credit Hours: 2 hrs
• GHPR 632 - Interpreting the Historic House Credit Hours: 3 hrs
• GHPR 687 - Internship Credit Hours: 4 hrs
• GHPR 688 - Internship Credit Hours: 5 hrs
• GHPR 689 - Internship Credit Hours: 6 hrs

Program Total: 36 hours

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.
If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
- GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:

- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
- ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs

Master of Science in Historic Preservation - Preservation Planning (HPPP)

Adviser: Ted J. Ligibel, PhD.
235 Strong
734.487.0232
tligibel@emich.edu
Web site: http://www.emich.edu/public/geo/HP/HP.html

The M.S. in historic preservation-preservation planning requires a minimum of 36 hours. The master’s curriculum emphasizes preparation for careers in historic preservation in a planning, administrative, historic agency, consulting or heritage tourism capacity. It provides practical experience through work study, internship, cooperative education and field study opportunities.

Admission Requirements
Degree Admission
Applicants must:
1. Have a bachelor’s degree from an accredited institution;
2. Meet Graduate School admission requirements; and
3. Have attained at least a 2.75 grade point average in the major field during the last two undergraduate years.

In addition to completing the university application form, the applicant must obtain program application forms from the historic preservation coordinator and follow all application procedures.
Conditional Admission
Otherwise promising students who do not meet Graduate School or departmental undergraduate GPA requirements may be granted conditional admission. Students who fulfill the probationary requirements may be granted regular admission.

Degree Requirements
1. Selection, in consultation with the program adviser, of a general course of study in historic preservation-preservation planning.
2. Completion of 36 hours of approved graduate-level course work beyond the bachelor’s degree as described below under course requirements.
3. Completion of prerequisite courses. The number of hours and the specific courses will be stipulated by the program adviser according to the student’s prior course work.

Foundation/prerequisites courses:

Students must complete course work in each of the following foundation areas or have acceptable undergraduate equivalent, in which case the course may be waived.

- ART 429 - History of American Architecture Credit Hours: 3 hrs
- GEOG 333 - Settlement Geography Credit Hours: 3 hrs
- GHPR 401 - Planning/Preservation Graphics Credit Hours: 3 hrs
- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

One course from the following:

- GEOG 332 - Urban Geography Credit Hours: 3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs

One course from the following:

- HIST 123 - The United States to 1877 Credit Hours: 3 hrs
- HIST 124 - The United States, 1877 to the Present Credit Hours: 3 hrs

Course Requirements:
The M.S. in historic preservation-preservation planning requires 36 hours of course work to be distributed among core and restricted elective courses as follows:

Core Courses: 16-18 hours

- GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
- GEOG 548 - American Vernacular Architecture Credit Hours: 2 hrs
- GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
- GHPR 547 - Problems in Architectural Interpretation Credit Hours: 2 hrs
- GHPR 551 - Principles of Building Technology Credit Hours: 2 hrs
- GHPR 620 - Preservation Research Techniques Credit Hours: 2 hrs
- GHPR 636 - Historic Preservation Field Project Credit Hours: 3 hrs

Choose one course from the following:

- GHPR 690 - Historic Preservation Project Credit Hours: 1 hr
- GHPR 691 - Historic Preservation Project Credit Hours: 2 hrs
- GHPR 692 - Historic Preservation Project Credit Hours: 3 hrs

Required Courses: 12 hours

- GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
- GHPR 531 - Preservation and Planning Law Credit Hours: 3 hrs
- GHPR 557 - Community Development and Downtown Revitalization Credit Hours: 3 hrs
- GHPR 630 - Documenting Historical Places Credit Hours: 2 hrs
- GHPR 631 - Preservation Administration and Planning Credit Hours: 2 hrs

Restricted Elective Courses: 10-13 hours
Courses selected with adviser approval

- Other relevant electives, including any historic preservation (GHPR) or planning course not already listed above, with permission of program adviser.
- CNST 648 - Principles of Construction Technology Credit Hours: 2 hrs
- GEOG 541 - Material Cultures: A Disciplinary Overview Credit Hours: 3 hrs
- GEOG 549 - Cultural Landscape Interpretation Credit Hours: 2 hrs
- GEOG 555 - Comprehensive Planning Credit Hours: 2 hrs
- GEOG 556 - Zoning Credit Hours: 2 hrs
- GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
- GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
- GHPR 532 - Introduction to Curatorship Credit Hours: 3 hrs
- GHPR 534 - Community Interpretation and Appropriate Tourism Credit Hours: 3 hrs
- GHPR 538 - Historic Preservation and Tourism Credit Hours: 2 hrs
- GHPR 539 - American Decorative Arts Credit Hours: 3 hrs
- GHPR 546 - International Preservation: Historic Applications Credit Hours: 2 hrs
- GHPR 552 - Materials Conservation I Credit Hours: 2 hrs
- GHPR 558 - Adaptive Use of Historic Structures Credit Hours: 2 hrs
- GHPR 559 - Urban Planning/Preservation Studio Credit Hours: 3 hrs
- GHPR 572 - Funding Preservation Projects Credit Hours: 2 hrs
- GHPR 587 - Cooperative Education in Cultural Resource Management Credit Hours: 3 hrs
- GHPR 632 - Interpreting the Historic House Credit Hours: 3 hrs
- GHPR 638 - Preserving Community Character Credit Hours: 2 hrs
- GHPR 651 - Principles of Preservation Technology Credit Hours: 2 hrs
- GHPR 687 - Internship Credit Hours: 4 hrs
- GHPR 688 - Internship Credit Hours: 5 hrs
- GHPR 689 - Internship Credit Hours: 6 hrs
- GHPR 694 - Seminar in Neighborhood Preservation Credit Hours: 2 hrs
- GHPR 695 - Seminar in Preservation Issues Credit Hours: 2 hrs
- GHPR 696 - Seminar in Preservation Issues Credit Hours: 3 hrs

Program Total: 36 hours

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:

- GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:

- GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
- GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
- GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
- GEOG 477 - Special Topics Credit Hours: 1 hr
- GEOG 478 - Special Topics Credit Hours: 2 hrs
- GEOG 479 - Special Topics Credit Hours: 3 hrs
- GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
- GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
- GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:
Master of Science in Urban and Regional Planning (URP)

Adviser: Norman Taylor, PhD.
209 Strong
734.487.8656
ntyler@emich.edu
Web site: http://planning.emich.edu

Objectives
The M.S. in urban and regional planning prepares students to work in city and regional planning agencies and private consulting firms, where they will be highly desired because of this degree’s emphasis on skills in land use and environmental planning and Geographic Information Systems (GIS).

Admission Requirements
1. 2.75 GPA from a regionally accredited undergraduate institution and/or at least 1500 on the aptitude test of the GRE
2. International students must receive a minimum score on the TOEFL language examination. See Admissions web site at www.emich.edu/admissions for minimum scores.
3. A minimum of two letters of recommendation, preferably one from a professor in the student’s major/minor field of study and one from an employer. If the student does not have related work experience then two letters from faculty members in the student’s major or minor field of study will be required.
4. Class status: undergraduate degree from an accredited college/university; senior standing for conditional admission.

Course Requirements:
The M.S. in urban and regional planning requires 36 credit hours of course work distributed among required courses, elective courses and thesis or internship courses as follows.

Required Courses: 31-33 hours

- GEOG 505 - Seminar in Methods and Research Credit Hours: 2 hrs
- GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
- GEOG 555 - Comprehensive Planning Credit Hours: 2 hrs
- GEOG 556 - Zoning Credit Hours: 2 hrs
- GEOG 557 - Community Development and Downtown Revitalization Credit Hours: 3 hrs
- GEOG 559 - Urban Planning/Preservation Studio Credit Hours: 3 hrs
- GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
- GEOG 581 - Advanced Environmental Assessment Credit Hours: 3 hrs
- GEOG 585 - Geographic Information Systems Applications Credit Hours: 3 hrs
- GEOG 674 - Professional Publication/Report Credit Hours: 2 hrs
- GHPR 559 - Urban Planning/Preservation Studio Credit Hours: 3 hrs
- PLSC 655 - Politics of Local Planning Credit Hours: 2 hrs

One of the following internship courses or equivalent:
• GEOG 687 - Internship in Geography/Geology Credit Hours: 4 hrs
• GEOG 688 - Internship in Geography/Geology Credit Hours: 5 hrs
• GEOG 689 - Internship in Geography/Geology Credit Hours: 6 hrs
Restricted Elective Courses: 4-6 hours

Four to six hours from the following:
• CTAC 508 - Small Group Decision-Making Credit Hours: 2 hrs
• CTAC 509 - Communication for Leaders Credit Hours: 2 hrs
• CTAC 510 - Listening Skills for Professionals Credit Hours: 2 hrs
• ENGL 524 - Advanced Technical Writing and Research Credit Hours: 3 hrs
• GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
• GEOG 575 - Interpretation of Aerial Photography Credit Hours: 3 hrs
• GEOG 580 - Urban Environmental Management Credit Hours: 2 hrs
• GEOG 582 - Remote Sensing of Earth Resources Credit Hours: 3 hrs
• GEOG 584 - Visual Programming for GIS Customization Credit Hours: 3 hrs
• GEOG 668 - GIS Project Credit Hours: 3 hrs
• GEOG 678 - Advanced Applications of GIS Credit Hours: 3 hrs
• GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
• GHPR 638 - Preserving Community Character Credit Hours: 2 hrs
• PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
• SOCL 656 - Human Ecology and Community Development Credit Hours: 3 hrs

Program Total: 36 hours

Note:

Footnote:
Equivalency: If a student is employed in a planning position, a portfolio of work completed during employment may substitute for the internship requirement and credits. The acceptability of the portfolio will be determined by the program adviser. If an internship is not feasible, a student may request a six credit thesis to replace the Internship and Professional Publication/Report requirements.

Undergraduate Courses for Graduate Credit: Geography and Geology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Historic Preservation Courses:
• GHPR 475 - Architectural Nomenclature Credit Hours: 2 hrs

Geography Courses:
• GEOG 441 - Transportation Geography and Planning Credit Hours: 3 hrs
• GEOG 445 - Cultural Tourism Resources Credit Hours: 3 hrs
• GEOG 446 - Heritage Interpretation and Tourism Credit Hours: 3 hrs
• GEOG 477 - Special Topics Credit Hours: 1 hr
• GEOG 478 - Special Topics Credit Hours: 2 hrs
• GEOG 479 - Special Topics Credit Hours: 3 hrs
• GEOG 480 - Geographic Information Systems Projects Credit Hours: 1-3 hrs
• GPLN 435 - History of Urban Form and Function Credit Hours: 3 hrs
• GPLN 495 - Environmental Assessment and Planning Credit Hours: 3 hrs

Earth Science Courses:
- ESSC 425 - Severe and Unusual Weather Credit Hours: 3 hrs
- ESSC 428 - Optical Mineralogy Credit Hours: 3 hrs
- ESSC 430 - Petroleum Geology Credit Hours: 3 hrs
- ESSC 439 - Economic Geology Credit Hours: 3 hrs
- ESSC 448 - Hydrogeology Credit Hours: 3 hrs
- ESSC 450 - Lake and Coastal Management Credit Hours: 3 hrs
- ESSC 459 - Aquifer Analysis Credit Hours: 3 hrs
- ESSC 460 - Contaminant Hydrology Credit Hours: 3 hrs
- ESSC 470 - Quantitative Methods in Geography and Geology Credit Hours: 3 hrs
- ESSC 485 - Introduction to Remote Sensing Credit Hours: 3 hrs
History and Philosophy Programs

History and Philosophy

Adviser: Dr Ronald Delph
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E-mail: rdelph@emich.edu
Web site: www.emich.edu/history/

The Department of History and Philosophy offers a Master of Arts degree in History, Master of Arts degree in State and Local History and a Master of Liberal Studies degree in Social Science and American Culture. The department also coordinates an interdisciplinary Master of Arts degree in Social Science.

History and Philosophy Programs and Courses

Master’s

Master of Arts in History (HST)

Adviser: Ron Delph, PhD.
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rdelph@emich.edu

Objectives
The Master of Arts in History enables students to acquire both general and specific knowledge concerning the human past. The program features specialization and breadth in subject matter. It also incorporates instruction in historiography and methodology as well as practice in research and writing. Students learn to locate, assess and present historical data from primary and secondary sources. This helps students refine their understanding of the meaning and matter of history. The degree can serve as preparation for teaching at the secondary level, for positions in government or business or for further graduate work at the doctoral level.

Admission Requirements
Applicants must:
1. Meet the Graduate School’s admission requirements;
2. Complete at least 20 hours of undergraduate course work in history, with a GPA of at least 2.75 for all undergraduate history courses; and
3. Have a minimum TOEFL score, if an international student (see the Admissions web site at www.emich.edu/admissions for minimum scores).

Advising
New students should arrange an early conference with the graduate adviser to plan their programs in detail.

Program Requirements
The Master of Arts in History requires successful completion of at least 30 hours of coursework. The 30 hours may include up to nine hours of approved 400-level courses. Courses in history are divided into the following areas:

Area 1: United States
Area 2: Europe
Area 3: Other World Areas
Students pursuing the M.A. in History may enroll in one of the two following programs: the Standard Program or the Thesis Program. All students will initially apply to the Standard Program; those wishing to apply to the Thesis Program may do so after having completed 15-18 hours of graduate coursework in History.

**Standard Program**

This program is appealing to teachers at the secondary level and to those who wish to pursue careers teaching at a community college. Graduates of this program can also find jobs in state and federal government or in publishing, or they may combine this degree with graduate work in library and information science, public history or historic preservation. This program calls for 30 hours of coursework and a comprehensive examination in each of two areas of concentration. The scope, nature and method of examination are determined by each examiner in consultation with the student. Course requirements for the standard program are as follows:

**Course Requirements:**

The M.A. in History requires 30 hours of course work to be distributed among required courses, restricted elective courses, elective courses in history and cognate courses as follows:

**Required Courses:** 5 hours

- HIST 505 - Historical Methods Credit Hours: 3 hrs
- HIST 688 - Historiography Credit Hours: 2 hrs

**Restricted Elective Courses:** 12-18 hours

**Three courses in each of two of the following three areas:**

Area 1: United States  
Area 2: Europe  
Area 3: Other World Areas

**Elective Courses in History:** 1-13 hours

**One to 13 hours selected in consultation with the graduate adviser.**

**Cognate Courses:** 0-6 hours

**Zero to six hours selected in consultation with the graduate adviser.**

**Thesis Program:**

Designed for those intending to pursue doctoral study in history, this program has further admissions requirements in addition to those described in the standard program, and six hours of directed research, concluding with a thesis. In addition to a 2.75 under graduate GPA in history, thesis program students must score at least 1150 on the GRE before being admitted to the program and show competency in a foreign language at the time of the submission of their thesis proposal. Foreign language competency may be satisfied by passing the Graduate Student Foreign Language Test (GSFLT) or by completing 12 hours of foreign language study at the undergraduate level with a grade of "B" or better, either during the undergraduate program or as non-credit course work while pursuing the master's degree. Course requirements for the thesis program are as follows:

**Required Courses:** 5 hours

- HIST 505 - Historical Methods Credit Hours: 3 hrs
- HIST 688 - Historiography Credit Hours: 2 hrs

**Restricted Elective Courses:** 12-18 hours

**Three courses in each of two of the following three areas:**

Area 1: United States  
Area 2: Europe  
Area 3: Other World Areas

**Elective Courses in History:** 1-13 hours
One to 13 hours selected in consultation with the graduate adviser.
Thesis: 6 hours

Six hours from the following:
- HIST 690 - Thesis Credit Hours: 1 hr
- HIST 691 - Thesis Credit Hours: 2 hrs
- HIST 692 - Thesis Credit Hours: 3 hrs

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: History and Philosophy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HIST 411 - England to 1689 Credit Hours: 3 hrs
- HIST 412 - England 1689 to Present Credit Hours: 3 hrs
- HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
- HIST 424 - The United States from 1917 to 1941 Credit Hours: 3 hrs
- HIST 425 - The United States from 1941 to 1963 Credit Hours: 3 hrs
- HIST 426 - The United States from 1963 to the Present Credit Hours: 3 hrs
- HIST 427 - Europe from Absolutism to Revolution, 1648-1815 Credit Hours: 3 hrs
- HIST 435 - Italy since 1815 Credit Hours: 3 hrs
- HIST 441 - The Far East to 1800 Credit Hours: 3 hrs
- HIST 442 - Modern China Credit Hours: 3 hrs
- HIST 443 - Modern Japan Credit Hours: 3 hrs
- HIST 450 - European Military History, 1815-1945 Credit Hours: 3 hrs
- HIST 451 - History of the First World War 1914-1918 Credit Hours: 3 hrs
- HIST 456 - Europe Since 1815 Credit Hours: 3 hrs
- HIST 457 - History of Mexico Credit Hours: 3 hrs
- HIST 461 - Foreign Relations of the United States Credit Hours: 3 hrs
- HIST 463 - United States Labor History Credit Hours: 3 hrs
- HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
- HIST 465 - United States Constitutional History Credit Hours: 3 hrs
- HIST 468 - The American Mind to the Civil War Credit Hours: 3 hrs
- HIST 469 - The American Mind Since the Civil War Credit Hours: 3 hrs
- HIST 471 - Social and Intellectual History of 19th-Century Europe Credit Hours: 3 hrs
- HIST 479 - Special Topics Credit Hours: 3 hrs
- HIST 480 - The American Revolution Credit Hours: 3 hrs
- HIST 481 - The Teaching of Social Studies Credit Hours: 3 hrs
- HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
- HIST 486 - The United States as an Emerging World Power Credit Hours: 3 hrs
- HIST 487 - Internship Credit Hours: 3 hrs
- PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
- PHIL 460 - Philosophy of Language Credit Hours: 3 hrs
- PHIL 470 - Contemporary European Philosophy Credit Hours: 3 hrs

Master of Arts in Social Science (SOCS)
Objectives
The M.A. in social science is an interdisciplinary effort among the Economics; Geography and Geology; History and Philosophy; Political Science; and Sociology, Anthropology and Criminology departments, coordinated through the Department of History and Philosophy. Students in the program take courses in at least three of the five departments. Because the master of arts in social science is interdisciplinary and does not require specialization, it is responsive to individual interests and curricular needs. The program can offer greater expertise to social studies teachers in the elementary and secondary schools. Students with career interests in business or government service can acquire the deeper knowledge and broader perspective that stem from graduate work in social science. In general, the program offers better understanding of the social, cultural, political, economic and geographic factors that shape human experience.

Admission Requirements
Degree Admission
Applicants must:
1. Meet the Graduate School’s admission requirements;
2. Have at least 30 hours of undergraduate courses in social science, an overall undergraduate GPA of at least 2.5; and
3. Have a minimum TOEFL score, if an international student (see Admissions web site at www.emich.edu/admissions for minimum scores).

Advising
In addition to these requirements, degree candidates must satisfy all of the general requirements of the Graduate School.
New students should arrange an early conference with the graduate adviser to plan their programs in detail.
All course selections must be approved by the graduate adviser before registration each semester.

Conditional Admission
Conditional admission may be granted to promising students who do not meet the above GPA requirements. Such students must maintain a B average to be granted degree admission. From at least nine to at most 12 hours earned during a non-degree status may be applied toward the M.A. degree, upon recommendation of the program coordinator of advising.

Course Requirements:
The M.A. in social science requires the completion of 30 hours of course work to be distributed among major concentration courses, restricted elective courses and elective courses as follows:

Major Concentration: 12 hours
At least six hours at the 500- or 600-level in one of the following: economics, geography (courses classified as social science), history, political science (one course from each of three groups, as specified by the department) or sociology/anthropology.

Restricted Elective Courses: 12 hours
Twelve hours from at least two other disciplines listed above.

Elective Courses: 6 hours
Six hours of social science or any other graduate courses offered by the University.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: History and Philosophy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request
form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HIST 411 - England to 1689 Credit Hours: 3 hrs
- HIST 412 - England 1689 to Present Credit Hours: 3 hrs
- HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
- HIST 424 - The United States from 1917 to 1941 Credit Hours: 3 hrs
- HIST 425 - The United States from 1941 to 1963 Credit Hours: 3 hrs
- HIST 426 - The United States from 1963 to the Present Credit Hours: 3 hrs
- HIST 427 - Europe from Absolutism to Revolution, 1648-1815 Credit Hours: 3 hrs
- HIST 435 - Italy since 1815 Credit Hours: 3 hrs
- HIST 441 - The Far East to 1800 Credit Hours: 3 hrs
- HIST 442 - Modern China Credit Hours: 3 hrs
- HIST 443 - Modern Japan Credit Hours: 3 hrs
- HIST 450 - European Military History, 1815-1945 Credit Hours: 3 hrs
- HIST 451 - History of the First World War 1914-1918 Credit Hours: 3 hrs
- HIST 456 - Europe Since 1945 Credit Hours: 3 hrs
- HIST 457 - History of Mexico Credit Hours: 3 hrs
- HIST 461 - Foreign Relations of the United States Credit Hours: 3 hrs
- HIST 463 - United States Labor History Credit Hours: 3 hrs
- HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
- HIST 465 - United States Constitutional History Credit Hours: 3 hrs
- HIST 468 - The American Mind to the Civil War Credit Hours: 3 hrs
- HIST 469 - The American Mind Since the Civil War Credit Hours: 3 hrs
- HIST 471 - Social and Intellectual History of 19th-Century Europe Credit Hours: 3 hrs
- HIST 479 - Special Topics Credit Hours: 3 hrs
- HIST 480 - The American Revolution Credit Hours: 3 hrs
- HIST 481 - The Teaching of Social Studies Credit Hours: 3 hrs
- HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
- HIST 486 - The United States as an Emerging World Power Credit Hours: 3 hrs
- HIST 487 - Internship Credit Hours: 3 hrs
- PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
- PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
- PHIL 460 - Philosophy of Language Credit Hours: 3 hrs
- PHIL 470 - Contemporary European Philosophy Credit Hours: 3 hrs

**Master of Arts in State and Local History (SLH)**

Designed for those with a particular interest in regional and local history, this program requires the comprehensive examination in U.S. history and a written, oral or visual presentation resulting from original scholarly investigation. Course requirements are as follows:

**Required Courses: 12-14 hours**

- HIST 505 - Historical Methods Credit Hours: 3 hrs
- HIST 530 - Urban Communities in U.S. History Credit Hours: 3 hrs
- HIST 533 - Studies and Techniques in Local History Credit Hours: 3 hrs
- HIST 688 - Historiography Credit Hours: 2 hrs

One course from the following:

- HIST 597 - Independent Study Credit Hours: 1 hr
- HIST 598 - Independent Study Credit Hours: 2 hrs
- HIST 599 - Independent Study Credit Hours: 3 hrs
- HIST 687 - Cooperative Education in History Credit Hours: 3 hrs
- HIST 689 - Local History Internship Credit Hours: 3 hrs
- HIST 690 - Thesis Credit Hours: 1 hr
- HIST 691 - Thesis Credit Hours: 2 hrs
- HIST 692 - Thesis Credit Hours: 3 hrs
- HIST 697 - Independent Study Credit Hours: 1 hr
- HIST 698 - Independent Study Credit Hours: 2 hrs
- HIST 699 - Independent Study Credit Hours: 3 hrs

Restricted Elective Courses: 12-14 hours

Select at least one course from Group A and one from Group B:

Group A

- HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
- HIST 538 - Studies in Colonial American History Credit Hours: 2 hrs
- HIST 541 - The United States, 1825-1860: Ferment and Reform Credit Hours: 2 hrs
- HIST 583 - Studies in the Civil War and Reconstruction Credit Hours: 3 hrs
- HIST 585 - Studies in 20th Century U.S. History Credit Hours: 2 hrs

Group B

- HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
- HIST 463 - United States Labor History Credit Hours: 3 hrs
- HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
- HIST 525 - Technology, Social Change and the Role of Women Credit Hours: 3 hrs
- HIST 531 - Studies in Black History Credit Hours: 3 hrs
- HIST 532 - Studies in Native American History Credit Hours: 3 hrs
- HIST 535 - Studies in the History of the Family in the United States Credit Hours: 2 hrs
- HIST 597 - Independent Study Credit Hours: 1 hr
- HIST 598 - Independent Study Credit Hours: 2 hrs
- HIST 599 - Independent Study Credit Hours: 3 hrs
- HIST 687 - Cooperative Education in History Credit Hours: 3 hrs
- HIST 689 - Local History Internship Credit Hours: 3 hrs
- HIST 697 - Independent Study Credit Hours: 1 hr
- HIST 698 - Independent Study Credit Hours: 2 hrs
- HIST 699 - Independent Study Credit Hours: 3 hrs

Cognate Courses: 4-6 hours

Four to six hours selected from one cognate area (e.g., historic preservation) or topic (e.g. musical theatre), in consultation with the graduate adviser.

Program Total: 30 hours

Notes:

This program is listed in the print catalog as a graduate certificate. The program was revised and is now a Master of Arts (effective Fall 2007).

Undergraduate Courses for Graduate Credit: History and Philosophy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HIST 411 - England to 1689 Credit Hours: 3 hrs
- HIST 412 - England 1689 to Present Credit Hours: 3 hrs
• HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
• HIST 424 - The United States from 1917 to 1941 Credit Hours: 3 hrs
• HIST 425 - The United States from 1941 to 1963 Credit Hours: 3 hrs
• HIST 426 - The United States from 1963 to the Present Credit Hours: 3 hrs
• HIST 427 - Europe from Absolutism to Revolution, 1648-1815 Credit Hours: 3 hrs
• HIST 435 - Italy since 1815 Credit Hours: 3 hrs
• HIST 441 - The Far East to 1800 Credit Hours: 3 hrs
• HIST 442 - Modern China Credit Hours: 3 hrs
• HIST 443 - Modern Japan Credit Hours: 3 hrs
• HIST 450 - European Military History, 1815-1945 Credit Hours: 3 hrs
• HIST 451 - History of the First World War 1914-1918 Credit Hours: 3 hrs
• HIST 456 - Europe Since 1945 Credit Hours: 3 hrs
• HIST 457 - History of Mexico Credit Hours: 3 hrs
• HIST 461 - Foreign Relations of the United States Credit Hours: 3 hrs
• HIST 463 - United States Labor History Credit Hours: 3 hrs
• HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
• HIST 465 - United States Constitutional History Credit Hours: 3 hrs
• HIST 468 - The American Mind to the Civil War Credit Hours: 3 hrs
• HIST 469 - The American Mind Since the Civil War Credit Hours: 3 hrs
• HIST 471 - Social and Intellectual History of 19th-Century Europe Credit Hours: 3 hrs
• HIST 479 - Special Topics Credit Hours: 3 hrs
• HIST 480 - The American Revolution Credit Hours: 3 hrs
• HIST 481 - The Teaching of Social Studies Credit Hours: 3 hrs
• HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
• HIST 486 - The United States as an Emerging World Power Credit Hours: 3 hrs
• HIST 487 - Internship Credit Hours: 3 hrs
• PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
• PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
• PHIL 460 - Philosophy of Language Credit Hours: 3 hrs
• PHIL 470 - Contemporary European Philosophy Credit Hours: 3 hrs

Master of Liberal Studies in Social Science and American Culture (SSAC)

The M.L.S. in social science and American culture is interdisciplinary in design. The program stresses individual inquiry and diverse opportunities for educational development.

Objectives
The M.L.S. in social science and American culture, administered by the Department of History and Philosophy, draws upon courses in history and philosophy; art; communication, media and theatre arts; economics; English language and literature; geography and geology; interdisciplinary technology; music and dance; political science; sociology, anthropology and criminology; teacher education; and world languages. This highly flexible program familiarizes students with a wide range of American cultures. It both helps students seeking employment in business, industry, or government and facilitates professional advancement for those already employed. The program also provides preparatory training for those desiring to teach or to pursue doctoral studies.

Admission Requirements
Degree Admission
Applicants must:
1. Have completed a bachelor’s degree, but no particular field or major is required;
2. Meet the GPA requirements for admission and for graduation established by the Graduate School; and
3. Have a minimum TOEFL score, if an international student (see Admissions web site at www.emich.edu/admissions for minimum scores).
Advising
New Students should arrange an early conference with the graduate adviser to plan their programs in detail.

Program Requirements
The degree requires 30 hours of courses approved for graduate credit. These may include a maximum of nine hours in approved 400-level under graduate courses. In addition to 24 hours in the American history and complementary concentrations below, the student will complete one of the following options:

Option I: Three hours of electives in approved courses in departments participating in the program, and a three-hour independent study. A two-hour integrated examination (oral or written) in American culture, administered by a committee of at least two professors from departments involved in the student’s program.

Option II: Three hours of electives in approved courses in departments participating in the program, and a three-credit-hour creative, scholarly or pedagogical special project supervised by a committee of at least two professors from departments involved in the student’s program.

Option III: A thesis for six hours of credit. The thesis must relate to the student’s course work in American culture and demonstrate an integrated knowledge of American life and thought. The thesis committee must consist of at least two professors from departments involved in the student’s program.

Course Requirements:
The M.L.S. in social science and American culture requires the completion of 30 hours of course work to be distributed among American history concentration courses, complementary concentration courses and culminating experience courses as follows:

American History Concentration: 12 hours
At least six hours from courses at the 500- or 600-level from the department of history listed below.
Complementary Concentrations: 12-15 hours
At least four courses listed below from each of two or more of the participating departments
Culminating Experience: 3-6 hours
Special Project(s) (number varies by department) or Independent Study (697/698/699) for three hours or Thesis (690/691/692) for six hours.
Program Total: 30 hours

Participating Department:
Departments participating in and courses constituting the master of liberal studies in social science and American culture are listed below

Department of History:

- HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
- HIST 424 - The United States from 1917 to 1941 Credit Hours: 3 hrs
- HIST 425 - The United States from 1941 to 1963 Credit Hours: 3 hrs
- HIST 426 - The United States from 1963 to the Present Credit Hours: 3 hrs
- HIST 463 - United States Labor History Credit Hours: 3 hrs
- HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
- HIST 465 - United States Constitutional History Credit Hours: 3 hrs
- HIST 468 - The American Mind to the Civil War Credit Hours: 3 hrs
- HIST 469 - The American Mind Since the Civil War Credit Hours: 3 hrs
- HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
- HIST 531 - Studies in Black History Credit Hours: 3 hrs
- HIST 532 - Studies in Native American History Credit Hours: 3 hrs
- HIST 533 - Studies and Techniques in Local History Credit Hours: 3 hrs
- HIST 535 - Studies in the History of the Family in the United States Credit Hours: 2 hrs
- HIST 538 - Studies in Colonial American History Credit Hours: 2 hrs
- HIST 541 - The United States, 1825-1860: Ferment and Reform Credit Hours: 2 hrs
• HIST 583 - Studies in the Civil War and Reconstruction Credit Hours: 3 hrs
• HIST 584 - Studies in the Gilded Age Credit Hours: 2 hrs
• HIST 585 - Studies in 20th Century U.S. History Credit Hours: 2 hrs
• HIST 586 - United States in World Politics Credit Hours: 2 hrs

Department of Art:

• ART 429 - History of American Architecture Credit Hours: 3 hrs

Department of Communication, Media and Theatre Arts:

• CTAT 446 - Contemporary Problems in Electronic Media Credit Hours: 3 hrs
• CTAR 562 - American Theatre History Credit Hours: 2 hrs
• CTAT 537 - Mass Communications Credit Hours: 2 hrs

Department of Economics:

• ECON 460 - Industrial Organization Credit Hours: 3 hrs
• ECON 501 - Macroeconomic Theory and Policy Credit Hours: 3 hrs
• ECON 502 - Microeconomic Theory and Policy Credit Hours: 3 hrs
• ECON 551 - State and Local Government Finance Credit Hours: 3 hrs
• ECON 562 - Government and Business Credit Hours: 3 hrs

Department of English Language and Literature:

• LITR 523 - Realism and Naturalism in American Literature Credit Hours: 3 hrs
• LITR 526 - Studies in African American Literature to 1945 Credit Hours: 3 hrs
• LITR 568 - Studies in 19th Century American Poetry Credit Hours: 3 hrs
• LITR 569 - The American Renaissance: 1830-1860 Credit Hours: 3 hrs
• LITR 576 - Studies in 20th Century American Fiction Credit Hours: 3 hrs
• LITR 577 - Studies in 20th Century American Poetry Credit Hours: 3 hrs

Department of Geography and Geology:

• GEOG 423 Principles of City and Regional Planning (3 hrs)
• GEOG 431 Historical Geography of the United States (3 hrs)
• GEOG 433 Political Geography of the United States (3 hrs)
• GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
• GEOG 548 - American Vernacular Architecture Credit Hours: 2 hrs
• GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
• GEOG 567 - Introduction to Coastal Environments Credit Hours: 2 hrs
• GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
• GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
• GHPR 694 - Seminar in Neighborhood Preservation Credit Hours: 2 hrs

Department of Interdisciplinary Technology:

• MLS 500 - Introduction to Interdisciplinary Technology Credit Hours: 3 hrs
• MLS 501 - History of Technology Credit Hours: 4 hrs
• MLS 602 - Contemporary Issues in Technology Credit Hours: 2 hrs

Department of Music and Dance:

• MUSC 504 - America’s Music Credit Hours: 2 hrs
• MUSC 642 - Foundations of Music Education Credit Hours: 2 hrs

Department of Political Science:

• PLSC 456 - Criminal Law I Credit Hours: 3 hrs
• PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
• PLSC 565 - Studies in State and Local Government Credit Hours: 2 hrs
PLSC 645 - Intergovernmental Relations Credit Hours: 2 hrs

Department of Sociology, Anthropology and Criminology:

- CRM 610 - Theories of Criminal Behavior Credit Hours: 3 hrs
- CRM 611 - Sociology of Crime and Its Correction Credit Hours: 3 hrs
- SOCL 502 - Racial and Cultural Minorities Credit Hours: 3 hrs
- SOCL 503 - The Family as an Institution Credit Hours: 3 hrs

Department of Teacher Education:

- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs
- SOFD 573 - Black Experience and American Education Credit Hours: 2 hrs

Department of World Languages

- FLAN 421 - History and Theory of Bilingual Education Credit Hours: 3 hrs

Note:

Graduate-level special topics courses that offer content in American culture may also be used in the M.L.S. program. Not more than six hours of special topics courses may be used in a degree program.

Undergraduate Courses for Graduate Credit: History and Philosophy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HIST 411 - England to 1689 Credit Hours: 3 hrs
- HIST 412 - England 1689 to Present Credit Hours: 3 hrs
- HIST 414 - The Automobile Industry and Modern America Credit Hours: 3 hrs
- HIST 424 - The United States from 1917 to 1941 Credit Hours: 3 hrs
- HIST 425 - The United States from 1941 to 1963 Credit Hours: 3 hrs
- HIST 426 - The United States from 1963 to the Present Credit Hours: 3 hrs
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- HIST 442 - Modern China Credit Hours: 3 hrs
- HIST 443 - Modern Japan Credit Hours: 3 hrs
- HIST 450 - European Military History, 1815-1945 Credit Hours: 3 hrs
- HIST 451 - History of the First World War 1914-1918 Credit Hours: 3 hrs
- HIST 456 - Europe Since 1945 Credit Hours: 3 hrs
- HIST 457 - History of Mexico Credit Hours: 3 hrs
- HIST 461 - Foreign Relations of the United States Credit Hours: 3 hrs
- HIST 463 - United States Labor History Credit Hours: 3 hrs
- HIST 464 - The Old West, 1540-1890 Credit Hours: 3 hrs
- HIST 465 - United States Constitutional History Credit Hours: 3 hrs
- HIST 468 - The American Mind to the Civil War Credit Hours: 3 hrs
- HIST 469 - The American Mind Since the Civil War Credit Hours: 3 hrs
- HIST 471 - Social and Intellectual History of 19th-Century Europe Credit Hours: 3 hrs
- HIST 479 - Special Topics Credit Hours: 3 hrs
- HIST 480 - The American Revolution Credit Hours: 3 hrs
- HIST 481 - The Teaching of Social Studies Credit Hours: 3 hrs
- HIST 482 - The Age of Washington and Jefferson Credit Hours: 3 hrs
- HIST 486 - The United States as an Emerging World Power Credit Hours: 3 hrs
- HIST 487 - Internship Credit Hours: 3 hrs
• PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
• PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
• PHIL 460 - Philosophy of Language Credit Hours: 3 hrs
• PHIL 470 - Contemporary European Philosophy Credit Hours: 3 hrs
Mathematics Programs

Mathematics

Address: 515 Pray-Harrold
Phone: 734.487.1444
E-mail: bette.warren@emich.edu
Web site: www.math.emich.edu

For advising and additional program information, contact:
Bingwu Wang, coordinator of advising
Address: 504D Pray-Harrold
Phone: 734.487.5044
E-mail: bwang@emich.edu

The department offers master of arts degrees in mathematics, mathematics–computer science, mathematics–statistics and mathematics education.

The Department of Mathematics awards several graduate assistantships each year; these provide a stipend, full tuition up to 18 hours and registration and general fees. Graduate fellowships are also awarded to qualified students. For further information, contact the department head or coordinator of advising.

Mathematics Programs and Courses

Master's

Master of Arts in Mathematics (MTH)

Advisers:
Bingwu Wang PhD.
504D Pray Harrold
734.487.5044
bwang@emich.edu

Ovidiu Calin, PhD.
516J Pray Harrold
734.487.0120
ocalin@emich.edu

Objectives
1. To develop competence in mathematics and related areas beyond the undergraduate level.
2. To improve the teaching of mathematics.
3. To prepare for study beyond the master’s level in mathematics or mathematics education.
4. To strengthen the mathematical background of professionals needing analytical and quantitative skills.
5. To meet the needs of teachers continuing their education.
6. To provide opportunities for research in mathematics and mathematics education.

Admission Requirements
Applicants must:
1. Meet the Graduate School’s degree admission requirements; and
2. Possess a strong undergraduate major in mathematics (approximately 30 hours with a GPA of 2.75 in mathematics courses). Students without such a major may be admitted to the program after meeting requirements specified by the department.

Degree Requirements
The master of arts degree in mathematics requires at least 30 graduate hours beyond the bachelor’s degree, distributed with the approval of the department according to the course requirements below. Approval by the student’s advisor of each semester’s courses prior to registration is recommended. Final approval for the degree by the coordinator of advising is required.

Portfolio Requirement
Students must submit a portfolio to the graduate coordinator by the beginning of the semester in which they expect to graduate. The portfolio is to contain research projects, papers, and midterm/final exams. Students should identify the course and professor for each piece of work.

Research Requirement
Students must select one of the following options:

Option I: Four hours of thesis research. Additional thesis hours may be taken, but will not replace the requirements listed below under required courses, restricted electives, electives, and cognates. Before starting thesis research, students must submit to the department head a request to form a thesis committee to be made up of three faculty members in the department. The chair, who will direct the research, is usually selected by the student and requires the approval of the department head. The chair, in consultation with the student, will then recommend for department-head approval, the other two committee members. At the conclusion of their research, students must submit to the department head the original thesis plus three copies written in a manner suitable for publication and approved by the thesis committee. A presentation, based on the thesis, will be made to at least three departmental faculty members.

Option II: At least two hours in research study. Students who elect this option will, with the approval of the coordinator of advising, select a supervisor to direct the research study. A copy of the study, written in good and acceptable form, must be filed with the department.

Course Requirements:
The M.A. in mathematics requires the completion of 30 hours of course work to be distributed among required courses, restricted elective courses, research courses, elective courses in mathematics, and cognate courses as follows:

Required Courses: 0-9 hours

- MATH 411 Abstract Algebra (3 hrs) or equivalent
  See footnote below
- MATH 416 Linear Algebra (3 hrs) or equivalent
  See footnote below
- MATH 420 Introduction to Real Analysis (3 hrs) or equivalent
  See footnote below

Restricted Elective Courses: 5-6 hours

One course from two of the following three groups:

Algebra

- MATH 511 - Linear Algebra Credit Hours: 3 hrs
- MATH 518 - Theory of Groups Credit Hours: 3 hrs

Analysis

- MATH 522 - Fourier Analysis Credit Hours: 3 hrs
- MATH 524 - Complex Analysis Credit Hours: 3 hrs
- MATH 526 - Real Analysis Credit Hours: 3 hrs

Probability and Statistics

- MATH 571 - Mathematical Statistics I: Probability Theory Credit Hours: 3 hrs
- MATH 573 - Statistical Data Analysis Credit Hours: 2 hrs
Mathematical Statistics II: Statistical Inference Credit Hours: 3 hrs

Research Courses: 2-4 hours

MATH 691/692 Research Study (2/3 hrs) for either two or three hours in research study or four hours of thesis research

Elective Courses in Mathematics: 5-23 hours

Usually no more than six hours in mathematics education courses. Thesis or research study hours in mathematics education do not count as part of this six-hour limitation.

Cognate Course: 0-6 hours

May be taken, in consultation with the graduate adviser, outside the Department of Mathematics, but in an area related to mathematics. The number of such hours permitted in the program will be based on the student’s background and needs. Current or prospective teachers of mathematics may take, instead of cognates, up to six additional hours in mathematics education beyond those permitted as electives above.

Program Total: 30 hours

Note:

Footnote:
A total of nine hours of approved 400-level courses taken for graduate credit may be used on a graduate degree program. Students with undergraduate credit in any or all of these courses will substitute approved mathematics electives for these hours.

Undergraduate Courses for Graduate Credit: Mathematics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Only students in the Mathematics Education concentration may receive graduate credit for MATH400.

- MATH 400 - History and Development of Mathematics Credit Hours: 3 hrs
- MATH 411 - Abstract Algebra Credit Hours: 3 hrs
- MATH 416 - Linear Algebra Credit Hours: 3 hrs
- MATH 420 - Introduction to Real Analysis Credit Hours: 3 hrs

Master of Arts in Mathematics - Computer Science (MTCS)

Objectives
1. To develop competence in mathematics and computer science beyond the undergraduate level.
2. To improve the teaching of mathematics and computer science.
3. To prepare for study beyond the master’s level in mathematics and/or computer science.
4. To strengthen the mathematical background of professionals needing analytical and quantitative skills related to mathematics and computer science.
5. To provide opportunities for research in mathematics and/or computer science.

Admission Requirements
Applicants must:
1. Meet all Graduate School degree admission requirements; and
2. Possess the equivalent of at least a minor in both mathematics and computer science (approximately 20 hours in each subject), although a major in one or the other subject is preferred. A GPA of at least 2.75 is required in both mathematics and computer science course work. Students without such a background may be admitted to the program after meeting requirements specified by the two departments.
Degree Requirements
This program is for students with an interest in computer science or applied mathematics. It requires a minimum of 34 graduate hours beyond the bachelor’s degree, distributed with the approval of both departments according to the course requirements below. The program includes at least 17 graduate hours in mathematics, including 11 at the 500- or 600-level, and at least 15 graduate hours in computer science, including 12 at the 500- or 600-level. Only six hours of 400-level course work in mathematics and only three hours of 400-level course work in computer science may be counted toward this degree. Approval by the student’s adviser of each semester’s courses prior to registration is recommended. Final approval for the degree by the coordinator of advising is required.

Portfolio Requirement
Students must submit a portfolio to the graduate coordinator by the beginning of the semester in which they expect to graduate. The portfolio is to contain research projects, papers and midterm/final exams. Students should identify the course and professor for each piece of work.

Course Requirements:
The M.A. in mathematics-computer science requires the completion of 34 hours of course work to be distributed among required courses, restricted elective courses, elective courses and research courses in mathematics and computer science courses as follows:

Mathematics Courses: 14-19 hours
Required courses: 0-6 hours
- MATH 411 - Abstract Algebra Credit Hours: 3 hrs
- MATH 416 - Linear Algebra Credit Hours: 3 hrs
- MATH 420 - Introduction to Real Analysis Credit Hours: 3 hrs
Restricted electives: 5-6 hours
- MATH 511 - Linear Algebra Credit Hours: 3 hrs
- MATH 518 - Theory of Groups Credit Hours: 3 hrs
One course from two of the following three groups:
Algebra
- MATH 511 - Linear Algebra Credit Hours: 3 hrs
- MATH 518 - Theory of Groups Credit Hours: 3 hrs
Analysis
- MATH 522 - Fourier Analysis Credit Hours: 3 hrs
- MATH 524 - Complex Analysis Credit Hours: 3 hrs
- MATH 526 - Real Analysis Credit Hours: 3 hrs
Probability and Statistics
- MATH 571 - Mathematical Statistics I: Probability Theory Credit Hours: 3 hrs
- MATH 573 - Statistical Data Analysis Credit Hours: 2 hrs
- MATH 671 - Mathematical Statistics II: Statistical Inference Credit Hours: 3 hrs
Elective courses in mathematics: 5-14 hours
Computer Science Courses: 12-17 hours
Restricted Electives: 6 hours
One course from the following:
- COSC 513 - Formal Methods in Software Development Credit Hours: 3 hrs
- COSC 541 - Automata, Computability and Formal Languages Credit Hours: 3 hrs
One course from the following:
- COSC 623 - Advanced Operating Systems Credit Hours: 3 hrs
- COSC 625 - Real Time Processing Credit Hours: 3 hrs
• COSC 645 - Advanced Compiler Construction Credit Hours: 3 hrs
• COSC 661 - Automated Reasoning Credit Hours: 3 hrs

Electives in Computer Science: 6-11 hours

*COSC514 Fundamentals of Computer Science I and COSC515 Fundamentals of Computer Science II do not count toward this master’s degree program.*

Research courses: 2-3 hours

*Students may satisfy the research requirement either by taking COSC683 or at least two hours of thesis or research study in either mathematics or computer science. Mathematics research study courses count toward the 17 hour mathematics requirement. Computer science thesis courses and COSC683 count toward the 15 hour computer science requirement. Students choosing the thesis or research study will, with the approval of the coordinators of advising, select a supervisor to direct the research study. See the description of the research requirement for the M.A. in mathematics.*

One course from the following:

• COSC 683 - Software Engineering Practicum Credit Hours: 3 hrs
• COSC 691 - Thesis Credit Hours: 2 hrs
• COSC 692 - Thesis Credit Hours: 3 hrs
• MATH 691 - Research Study Credit Hours: 2 hrs
• MATH 692 - Research Study Credit Hours: 3 hrs

Program Total: 34 hours

Note:

*Footnote:* A total of six hours of approved 400-level mathematics courses taken for graduate credit may be applied to this graduate degree program. Students with undergraduate credit in any or all of these courses will substitute approved mathematics electives for these hours.

Undergraduate Courses for Graduate Credit: Mathematics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

*Only students in the Mathematics Education concentration may receive graduate credit for MATH400.*

• MATH 400 - History and Development of Mathematics Credit Hours: 3 hrs
• MATH 411 - Abstract Algebra Credit Hours: 3 hrs
• MATH 416 - Linear Algebra Credit Hours: 3 hrs
• MATH 420 - Introduction to Real Analysis Credit Hours: 3 hrs

Master of Arts in Mathematics - Statistics (MTAS)

Objectives

1. To develop competence in mathematics and statistics beyond the undergraduate level.
2. To improve the teaching of both mathematics and statistics.
3. To prepare for study beyond the master’s level in mathematics and/or statistics.
4. To strengthen the mathematical background of professionals needing analytical and quantitative skills related to mathematics and statistics.
5. To provide opportunities for research in mathematics and/or statistics.
Admission Requirements
Applicants must:
1. Meet all Graduate School degree admission requirements; and
2. Have completed a course in multivariable calculus, a course in calculus-based probability and statistics and a mathematics "proof" course, although a major in either mathematics or statistics is preferred. A GPA of at least 2.75 is required in both mathematics and statistics course work. Students without such a background maybe admitted to the program after meeting requirements specified by the department.

Degree Requirements
This program requires a minimum of 34 graduate hours beyond the bachelor’s degree, distributed with the approval of the department according to the course requirements below. Approval by the student’s adviser of each semester’s courses prior to registration is recommended. Final approval for the degree by the coordinator of advising is required.

Portfolio Requirement
Students must submit a portfolio to the graduate coordinator by the beginning of the semester in which they expect to graduate. The portfolio is to contain research projects, papers and midterm/final exams. Students should identify the course and professor for each piece of work.

Course Requirements:
The M.A. in mathematics-computer science requires the completion of 34 hours of course work to be distributed among required courses, restricted elective courses, elective courses and research courses in mathematics and computer science courses as follows:

Mathematics: 15 hours
Required Courses: 0-9 hours
- MATH 411 - Abstract Algebra Credit Hours: 3 hrs
- MATH 416 - Linear Algebra Credit Hours: 3 hrs
- MATH 420 - Introduction to Real Analysis Credit Hours: 3 hrs

Restricted Elective Courses: 6 hours
Select one course from two of the following three groups:
Algebra
- MATH 511 - Linear Algebra Credit Hours: 3 hrs
- MATH 518 - Theory of Groups Credit Hours: 3 hrs
Analysis
- MATH 522 - Fourier Analysis Credit Hours: 3 hrs
- MATH 524 - Complex Analysis Credit Hours: 3 hrs
- MATH 526 - Real Analysis Credit Hours: 3 hrs
Applied
- MATH 536 - Numerical Analysis Credit Hours: 3 hrs
- MATH 560 - Introduction to Optimization Theory Credit Hours: 3 hrs
Bioinformatics
- MATH 570 - Statistical Concepts and Methods for Bioinformatics Credit Hours: 3 hrs

Elective courses in mathematics: 0-9 hours

Statistics Courses: 17 hours
Required Courses: 11 hours
- MATH 571 - Mathematical Statistics I: Probability Theory Credit Hours: 3 hrs
- MATH 572 - Design and Analysis of Experiments Credit Hours: 3 hrs
- MATH 573 - Statistical Data Analysis Credit Hours: 2 hrs
• MATH 671 - Mathematical Statistics II: Statistical Inference Credit Hours: 3 hrs

Restricted Electives: 6 hours

Two course from the following:
• MATH 574 - Applied Statistics Credit Hours: 3 hrs
• MATH 575 - Linear Regression Analysis Credit Hours: 3 hrs
• MATH 576 - Applied Survey Sampling Credit Hours: 3 hrs
• MATH 577 - Applied Multivariate Statistics Credit Hours: 3 hrs
• MATH 578 - Nonparametric Statistics Credit Hours: 3 hrs

Research Courses: 2 hours

At least two hours of thesis or research study in either mathematics or statistics are required. Students will, with the approval of the coordinator of advising, select a supervisor to direct the thesis or research study. See the description of the research requirement for the M.A. in mathematics.

Program Total: 34 hours

Note:

Footnote:
A total of nine hours of approved 400-level courses taken for graduate credit may be used on a graduate degree program. Students with undergraduate credit in any or all of these courses will substitute approved mathematics electives for these hours.

Undergraduate Courses for Graduate Credit: Mathematics

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

Only students in the Mathematics Education concentration may receive graduate credit for MATH400.
• MATH 400 - History and Development of Mathematics Credit Hours: 3 hrs
• MATH 411 - Abstract Algebra Credit Hours: 3 hrs
• MATH 416 - Linear Algebra Credit Hours: 3 hrs
• MATH 420 - Introduction to Real Analysis Credit Hours: 3 hrs
Music and Dance Programs

Music and Dance

Address: N101 Alexander
Phone: 734.487.4380
E-mail: jprince@emich.edu
Web site: http://www.emich.edu/musicdance

The Eastern Michigan University Department of Music and Dance strives to promote lifelong musical learning, to prepare students for professional careers in music, and to advance the cultural life of the campus, community and beyond.

Departmental Values

Teaching and learning
Performing
Scholarship
Outreach
Service

Guiding Principles

Musicianship
Excellence
Accessibility
Relevance
Partnership

Degrees

Master of Music in Composition
Master of Music in Music Education
Master of Music in Performance with specializations in:

Collaborative Keyboard
Harpsichord or Organ
Piano
Voice
Wind, String, or Percussion Instrument

Master of Music in Piano Pedagogy

All degrees are accredited by the National Association of Schools of Music

Music and Dance Programs and Courses

Master's
Master of Music in Composition (MCOM)

Admission Requirements
Admission to the Master of Music in Music Composition degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

1. Undergraduate degree in music or its equivalent;
2. At least two original compositions;
3. Interview with composition faculty;
4. Two letters of recommendation.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B of better in the course, prior to enrolling in MUSC511, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.

*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Composition
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from music theory, and a faculty member from outside the major field. The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.

   *change effective Fall 2007

2. Thesis (original composition for large ensemble with the intent of performance).

Course Requirements:

The M.M. in Music Composition requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.
Supportive Studies in Music: 10 hours

*see note

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
**see note

- MUSC 513 - Form and Analysis Credit Hours: 2 hrs
**see note

- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs
**see note

Four hours from the following:

- MUSC 504 - America’s Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 16 hours

*see note

- MUSC 693 Thesis (3 hrs)
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
- MUSC 518 - Music Composition I Credit Hours: 3 hrs
- MUSC 617 - Music Composition II Credit Hours: 3 hrs
***see note

- MUSC 618 - Music Composition III Credit Hours: 3 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Elective Courses: 4 hours

Music or non-music courses selected in consultation with the graduate adviser.

Program Total: 30 hours

Note:

*Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.

**Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513 or MUSC516. Students who fail to achieve an acceptable score must take MUSC509 and receive a “B” or better prior to enrolling in any of these courses.

***Students will be admitted to 600-level Music Composition if the quality and quantity of their work in MUSC518 indicates that they can do advanced work in composition. MUSC518 may be taken up to four times, but will only count once towards the degree requirements. Repeating MUSC518 beyond the fourtime limit requires permission from the department.
Master of Music in Music Education (MUED)

Admission Requirements
Admission to the Master of Music in Music Education degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

Application for admission to the Department of Music and Dance must be made to the Department of Music and Dance office. Admission requirements are as follows:

1. Undergraduate degree in music education, or its equivalent;
2. Interview with appropriate music education faculty;
3. Two letters of recommendation from sources familiar with applicant’s teaching;
4. A letter of interest (one page) stating the applicant’s aspirations regarding master’s study;
5. Audition for applied music placement.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.

*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Music Education
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field. The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.
   *change effective Fall 2007

2. Ensemble Conducting Recital, Exam or Thesis Option.
The M.M. in Music Education requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
- MUSC 513 - Form and Analysis Credit Hours: 2 hrs
- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

Four hours from the following:

- MUSC 504 - America’s Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Music Education: 18 hours

- Applied Music (principal instrument) (1-2 hours)
  ***see note
- MUSC 572 - Psychology of Music Teaching and Learning Credit Hours: 2 hrs
- MUSC 642 - Foundations of Music Education Credit Hours: 2 hrs
- MUSC 646 - Music Curriculum and Assessment Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Four hours from the following:

- MUSC 565 - Ensemble Pedagogy and Literature Credit Hours: 2 hrs
- MUSC 576 - Score Study and Rehearsal Strategies for Music Educators Credit Hours: 2 hrs
- MUSC 591 - Special Topics Credit Hours: 2 hrs
- MUSC 595 - Workshop in Music Credit Hours: 2 hrs
- MUSC 678 - Advanced Conducting for Music Educators Credit Hours: 2 hrs
- MUSC 697 - Independent Study Credit Hours: 1 hr
- MUSC 698 - Independent Study Credit Hours: 2 hrs

Culminating Experience: 4-5 hours

***see note

One option from the following:

Option I: Ensemble Conducting Recital: 4 hours

- MUSC 678 - Advanced Conducting for Music Educators Credit Hours: 2 hrs
- MUSC 688 - Ensemble Conducting Recital Credit Hours: 2 hrs

Option II: Exam: 4 hours

Graduate music education courses (4 hrs), selected in consultation with the Music Education faculty, and exam

Option III: Thesis: 5 hours
One option from the following:
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs
And:
- MUSC 691 - Thesis Credit Hours: 2 hrs
Elective Courses: 2 hours

Music or non-music courses selected in consultation with the graduate adviser.
Program Total: 30 hours

Note:
*Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.
**Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513 or MUSC516. Students who fail to achieve an acceptable score must take MUSC509 and receive a “B” or better prior to enrolling in any of these courses.
***Students who pursue Culminating Experience Option III: Thesis are required to take one hour of applied music. All other students must take two hours of applied music.

Master of Music in Music Performance (Collaborative Keyboard) (MPRF)

Admission Requirements
Admission to the Master of Music in Music Performance (Collaborative Keyboard) degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

1. Undergraduate degree in music, or its equivalent;
2. Interview with appropriate applied music faculty;
3. Two letters of recommendation;
4. Keyboard audition;
5. Repertoire list.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs.), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.
*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department requirements are as follows:
1. Comprehensive Review in Performance

All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field (or in the case of Performance majors, from outside their performance specialty - brass, keyboard, percussion, string, vocal, or woodwind). The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.

*change effective Fall 2007

2. Graduate Recital. Requirements are as follows:
   a. Student must be registered for applied music during the semester in which the recital is given.
   b. Student will perform a recital hearing for a faculty committee at least three weeks prior to the performance. In addition to the student’s major applied teacher, at least one other faculty member from the committee must attend the recital.
   c. Student will provide a thoroughly researched and appropriately referenced recital paper.
   d. Student will provide a recording of the recital to the Music Office.

Course Requirements:

The M.M. in Music Performance (Collaborative Keyboard) requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
- MUSC 513 - Form and Analysis Credit Hours: 2 hrs
- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

Four hours from the following:

- MUSC 504 - America’s Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 18 hours
• Applied Music (ACOL) at 652-level or above; students must complete MUSC 664 (8 hours)
• MUSC 551 - Vocal and Instrumental Collaboration Credit Hours: 2 hrs
• MUSC 561 - Studies in Literature Credit Hours: 2 hrs
• MUSC 660 - Pedagogy of Music Performance Credit Hours: 1 hr
• MUSC 661 - Principal Instrument in Pedagogy Credit Hours: 1 hr
• MUSC 687 - Graduate Recital Credit Hours: 2 hrs
Elective Courses: 2 hours

Music or non-music courses selected in consultation with the graduate adviser.
Program Total: 30 hours

Note:
*Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.
**Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513 or MUSC516. Students who fail to achieve an acceptable score must take MUSC509 and receive a “B” or better prior to enrolling in any of these courses.
***MUSC661 must be taken concurrently with MUSC660.

Master of Music in Music Performance (Harpsichord or Organ) (MPRF)

Admission Requirements
Admission to the Master of Music in Music Performance (Harpsichord or Organ) is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application. Application for admission to the Department of Music and Dance should be made to the Department of Music and Dance office. Admission requirements are as follows:

1. Undergraduate degree in music, or its equivalent;
2. Interview with the appropriate applied music faculty;
3. Two letters of recommendation;
4. Audition on harpsichord or organ;
5. Repertoire list.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.
*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.
Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Performance
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field (or in the case of Performance majors, from outside their performance specialty - brass, keyboard, percussion, string, vocal, or woodwind). The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.

   *change effective Fall 2007

2. Graduate Recital. Requirements are as follows:
   a. Students must be registered for applied music during the semester in which the recital is given.
   b. Student will perform a recital hearing for a faculty committee at least three weeks prior to the performance. In addition to the student’s major applied teacher, at least one other faculty member from the committee must attend the recital.
   c. Student will provide a thoroughly researched and appropriately referenced recital paper.
   d. Student will provide a recording of the recital to the Music Office.

Course Requirements:

The M.M. in Music Performance (Harpsichord or Organ) requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

See footnote one below

• MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

• MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs

See footnote two below

• MUSC 512 - Counterpoint Credit Hours: 2 hrs

See footnote two below

• MUSC 513 - Form and Analysis Credit Hours: 2 hrs

See footnote two below

• MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

See footnote two below

Four hours from the following:

• MUSC 504 - America’s Music Credit Hours: 2 hrs
• MUSC 505 - World Music Credit Hours: 2 hrs
• MUSC 631 - Renaissance Music Credit Hours: 2 hrs
• MUSC 632 - Baroque Music Credit Hours: 2 hrs
• MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
• MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
• MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
• MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 18 hours

See footnote one below

Applied Music (harpsichord or organ) at 652-level or above: students must complete MUSC664 (8 hours)
• MUSC 515 - Common Practice Improvisation Credit Hours: 2 hrs
• MUSC 546 - Collegium Musicum Credit Hours: 1 hr
• MUSC 561 - Studies in Literature Credit Hours: 2 hrs
• MUSC 660 - Pedagogy of Music Performance Credit Hours: 1 hr
• MUSC 661 - Principal Instrument in Pedagogy Credit Hours: 1 hr
• MUSC 687 - Graduate Recital Credit Hours: 2 hrs

Elective Courses: 2 hours

Music or non-music courses selected in consultation with the graduate adviser.
Program Total: 30 hours

Note:

Footnote One:
Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.

Footnote Two:
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC 511, MUSC 512, MUSC 513 or MUSC 516. Students who fail to achieve an acceptable score must take MUSC 509 and receive a “B” or better prior to enrolling in any of these courses.

Footnote Three:
MUSC 661 must be taken concurrently with MUSC 660.

Master of Music in Music Performance (Piano) (MPRF)

Admission Requirements
Admission to the Master of Music in Music Performance (Piano) degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

Application for admission to the Department of Music and Dance must be made to the Department of Music and Dance office. Admission requirements are as follows:

1. Undergraduate degree in music, or its equivalent;
2. Interview with the appropriate applied music faculty;
3. Two letters of recommendation;
4. Audition on piano;
5. Repertoire list.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in
MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not
to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive
a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate
Theory Review does not count towards degree requirements.
*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of
the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those
normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance
in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Performance
   All graduate students must pass an examination covering their major field of study. The examination may be
   written and/or oral in format, as determined by the student's faculty committee. Written examinations will
   consist of three to five essay questions and must be completed in three hours or less. Oral examinations will
   last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the
   anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other
   culminating experience prior to taking the examination. Exceptions to this policy may occur only with the
   approval of the student's faculty committee and the Department Head. The examination will be graded
   Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional
   faculty member from the major field, and a faculty member from outside the major field (or in the case of
   Performance majors, from outside their performance specialty - brass, keyboard, percussion, string, vocal, or
   woodwind). The specific makeup of the faculty committee will be determined by the student in consultation
   with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a
   faculty committee, it will be formed by the Department Head in consultation with the student's faculty
   adviser.
   *change effective Fall 2007

2. Graduate Recital. Requirements are as follows:
   a. Student must be registered for applied music during the semester in which the recital is given.
   b. Student will perform a recital hearing for a faculty committee at least three weeks prior to the
      performance. In addition to the student’s major applied teacher, at least one other faculty member
      from the committee must attend the recital.
   c. Student will provide a thoroughly researched and appropriately referenced recital paper.
   d. Student will provide a recording of the recital to the Music Office.

Course Requirements:

The M.M. in Music Performance (Piano) requires the completion of 30 hours of course work to be distributed among
Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
• MUSC 513 - Form and Analysis Credit Hours: 2 hrs
• MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

Four hours from the following:

• MUSC 504 - America’s Music Credit Hours: 2 hrs
• MUSC 505 - World Music Credit Hours: 2 hrs
• MUSC 631 - Renaissance Music Credit Hours: 2 hrs
• MUSC 632 - Baroque Music Credit Hours: 2 hrs
• MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
• MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
• MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
• MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 18 hours

• Applied Music (APNO) at 652-level or above; students must complete MUSC 664 (8 hours)
• MUSC 561 - Studies in Literature Credit Hours: 2 hrs
• MUSC 660 - Pedagogy of Music Performance Credit Hours: 1 hr
• MUSC 661 - Principal Instrument in Pedagogy Credit Hours: 1 hr
• MUSC 687 - Graduate Recital Credit Hours: 2 hrs

Four hours from the following:

• MUSC 515 - Common Practice Improvisation Credit Hours: 2 hrs
• MUSC 551 - Vocal and Instrumental Collaboration Credit Hours: 2 hrs
• MUSC 554 - Chamber Music Credit Hours: 1 hr
• MUSC 561 - Studies in Literature Credit Hours: 2 hrs

Elective Courses: 2 hours

Music or non-music courses selected in consultation with the graduate adviser.

Program Total: 30 hours

Note:

Footnote One:
Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.

Footnote Two:
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC 511, MUSC 512, MUSC 513 or MUSC 516. Students who fail to achieve an acceptable score must take MUSC 509 and receive a “B” or better prior to enrolling in any of these courses.

Footnote Three:
MUSC 661 must be taken concurrently with MUSC 660.

Master of Music in Music Performance (Voice) (MPRF)

Admission Requirements
Admission to the Master of Music in Music Performance (Voice) degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.
Application for admission to the Department of Music and Dance must be made to the Department of Music and Dance office. Admission requirements are as follows.

1. Undergraduate degree in music, or its equivalent;
2. Interview with the appropriate applied music faculty;
3. Two letters of recommendation;
4. Vocal audition (including diction assessment)*;
5. Repertoire list.

* Voice majors are expected to be proficient in German, French and Italian diction. If an incoming student is not proficient, he/she will be admitted conditionally and must take MUSC235 Diction in Singing within their first two semesters of study and receive a B or better. MUSC235 Diction in Singing does not count toward degree requirements.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.

*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Performance
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field (or in the case of Performance majors, from outside their performance specialty - brass, keyboard, percussion, string, vocal, or woodwind). The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.

   *change effective Fall 2007

2. Graduate Recital. Requirements are as follows:
   a. Student must be registered for applied music during the semester in which the recital is given.
   b. Student will perform a recital hearing for a faculty committee at least three weeks prior to the performance. In addition to the student’s major applied teacher, at least one other faculty member from the committee must attend the recital.
   c. Student will provide a thoroughly researched and appropriately referenced recital paper.
   d. Student will provide a recording of the recital to the Music Office.
Course Requirements:

The M.M. in Music Performance (Voice) requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

See footnote one below

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs

See footnote two below

- MUSC 512 - Counterpoint Credit Hours: 2 hrs

See footnote two below

- MUSC 513 - Form and Analysis Credit Hours: 2 hrs

See footnote two below

- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

See footnote two below

Four hours from the following:

- MUSC 504 - America’s Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 16 hours

See footnote one below

- Applied Music (voice) at 652-level or above; students must complete MUSC 664 (8 hours)
- Ensemble (1 hr)
- MUSC 660 - Pedagogy of Music Performance Credit Hours: 1 hr
- MUSC 662 - Vocal Pedagogy Credit Hours: 2 hrs
- MUSC 687 - Graduate Recital Credit Hours: 2 hrs

Two hours from the following:

- MUSC 561 Studies in Literature (opera) (solo song) (2 hrs)
- MUSC 561 - Studies in Literature Credit Hours: 2 hrs

Elective Courses: 4 hours

Music or non-music courses selected in consultation with the graduate adviser.

Program Total: 30 hours

Note:

Footnote One:

Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a
grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.

Footnote Two:
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513 or MUSC516. Students who fail to achieve an acceptable score must take MUSC509 and receive a “B” or better prior to enrolling in any of these courses.

Footnote Three:
MUSC662 must be taken concurrently with MUSC660.

Master of Music in Music Performance (Wind, String, or Percussion Instrument) (MPRF)

Admission Requirements
Admission to the Master of Music in Music Performance (Wind, String, or Percussion Instrument) degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

Application for admission to the Department of Music and Dance must be made to the Department of Music and Dance office. Admission requirements are as follows:

1. Undergraduate degree in music, or its equivalent;
2. Interview with the appropriate applied music faculty;
3. Two letters of recommendation;
4. Audition on major instrument;
5. Repertoire list.

Music Theory Graduate Placement Exam
Students must achieve an acceptable score on the Music Theory Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.

*change effective Fall 2007

Conditional Admission
Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising
Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.

Exit Requirements
In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Performance
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student's faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student's prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student's faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.
The examination will be evaluated by a committee consisting of the student's faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field (or in the case of Performance majors, from outside their performance specialty - brass, keyboard, percussion, string, vocal, or woodwind). The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student's faculty adviser.

*change effective Fall 2007

2. Graduate Recital. Requirements are as follows:
   a. Student must be registered for applied music during the semester in which the recital is given.
   b. Student will perform a recital hearing for a faculty committee at least three weeks prior to the performance. In addition to the student’s major applied teacher, at least one other faculty member from the committee must attend the recital.
   c. Student will provide a thoroughly researched and appropriately referenced recital paper.
   d. Student will provide a recording of the recital to the Music Office.

Course Requirements:

The M.M. in Music Performance (Wind, String, or Percussion Instrument) requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

*  

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
- MUSC 513 - Form and Analysis Credit Hours: 2 hrs
- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

Four hours from the following:

- MUSC 504 - America's Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 635 - Music Since 1900 Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 16-17 hours

*  

One course from the following (determined by applied music faculty):

- MUSC 559 - Studies in Literature Credit Hours: 1 hr
- MUSC 561 - Studies in Literature Credit Hours: 2 hrs
- MUSC 660 - Pedagogy of Music Performance Credit Hours: 1 hr
- MUSC 661 - Principal Instrument in Pedagogy Credit Hours: 1 hr

And:

- Applied Music (wind, string, or percussion instrument) at 652-level or above; students must complete MUSC664b (8 hours)
- Ensemble (3 hrs)
Master of Music in Piano Pedagogy (MUPP)

Admission Requirements

Degree Admission

Admission to the Master of Music in Piano Pedagogy degree is granted to students who meet the requirements of both the Graduate School and the Department of Music and Dance. Application for admission to the Graduate School should be made to the Office of Admissions, where undergraduate transcripts are evaluated. Transcripts should be forwarded to the Office of Admissions at the time of application.

Application for admission to the Department of Music and Dance must be made to the Department of Music and Dance office. Admission requirements are as follows:

1. Undergraduate degree in music, or its equivalent;
2. Interview with the appropriate applied music faculty;
3. Two letters of recommendation;
4. Audition on piano;
5. Repertoire list;
6. Written statement of teaching philosophy.

Music Theory Graduate Placement Exam

Students must achieve an acceptable score on the Music Theory Placement Exam prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. Students who fail to achieve an acceptable score or who choose not to take the Music Theory Graduate Placement Exam must take MUSC509 Graduate Theory Review (2 hrs), and receive a B or better in the course, prior to enrolling in MUSC511, MUSC512, MUSC513, or MUSC516. MUSC509 Graduate Theory Review does not count towards degree requirements.

*change effective Fall 2007

Conditional Admission

Students deficient in a requirement for degree admission may be granted conditional admission, subject to removal of the deficiency, while beginning graduate study. Hours earned in making up deficiencies are in addition to those normally required for the degree.

Graduate Advising

Upon admission to the Department of Music and Dance, each student will meet with the graduate adviser for assistance in planning their curriculum.
Exit Requirements

In addition to Graduate School requirements, Department of Music and Dance requirements are as follows:

1. Comprehensive Review in Piano Pedagogy
   All graduate students must pass an examination covering their major field of study. The examination may be written and/or oral in format, as determined by the student’s faculty committee. Written examinations will consist of three to five essay questions and must be completed in three hours or less. Oral examinations will last approximately one hour.

   The examination will occur when the student’s prescribed course work is substantially completed, in the anticipated semester of graduation. In addition, the student must complete his/her thesis, recital, or other culminating experience prior to taking the examination. Exceptions to this policy may occur only with the approval of the student’s faculty committee and the Department Head. The examination will be graded Pass/Fail and can be taken no more than three times.

   The examination will be evaluated by a committee consisting of the student’s faculty adviser, an additional faculty member from the major field, and a faculty member from outside the major field. The specific makeup of the faculty committee will be determined by the student in consultation with his/her faculty adviser, and must be approved by the Department Head. If a student is unable to form a faculty committee, it will be formed by the Department Head in consultation with the student’s faculty adviser.

   *change effective Fall 2007

2. Final Project. (Video recording and written documentation must be supplied to the office of the Department of Music and Dance). Choose one:
   a. Lecture-Recital.
   b. Recital with separate lecture or presentation for piano teachers.
   c. A 30-minute fluent reading of piano music of at least upper-intermediate difficulty for the piano faculty and a substantial paper that adds to the body of knowledge in the discipline and may result in a presentation or publication.

3. Students must teach a minimum of two students each semester they are enrolled. Students who do not have their own studio will teach in the EMU Community Music Academy.

Course Requirements:

The M.M. in Piano Pedagogy in collaborative keyboard requires the completion of 30 hours of course work to be distributed among Supportive Studies, Major Field and Electives as follows.

Supportive Studies in Music: 10 hours

*  

- MUSC 500 - Introduction to Graduate Studies Credit Hours: (2 hrs)

Four hours from the following:

- MUSC 511 - Survey of Harmonic Techniques Credit Hours: 2 hrs
- MUSC 512 - Counterpoint Credit Hours: 2 hrs
- MUSC 513 - Form and Analysis Credit Hours: 2 hrs
- MUSC 516 - Schenkerian Analysis Credit Hours: 2 hrs

Four hours from the following:

- MUSC 504 - America’s Music Credit Hours: 2 hrs
- MUSC 505 - World Music Credit Hours: 2 hrs
- MUSC 631 - Renaissance Music Credit Hours: 2 hrs
- MUSC 632 - Baroque Music Credit Hours: 2 hrs
- MUSC 633 - Music in the Classical Era Credit Hours: 2 hrs
- MUSC 634 - Music in the Romantic Era Credit Hours: 2 hrs
- MUSC 694 - Seminar Credit Hours: 2 hrs

Courses in Major Field: 18 hours
- Applied Music (APED) at 652-level or above (8 hours)
- MUSC 561 - Studies in Literature Credit Hours: 2 hrs
- MUSC 665 - Elementary Piano Pedagogy Credit Hours: 2 hrs
- MUSC 666 - Intermediate to Advanced Piano Pedagogy Credit Hours: 2 hrs
- MUSC 667 - Group Piano Pedagogy and Technology Credit Hours: 2 hrs
- MUSC 692 - Final Project Credit Hours: 2 hrs

Elective Courses: 2 hours

*Music or non-music courses selected in consultation with the graduate adviser*

Program Total: 30 hours

Note:

*Footnote One:*
Students must earn a grade of a “B” or higher in all Supportive Studies and Major Field courses. If a student earns a grade lower than a “B” in any course, he/she must retake the course and receive a “B” or higher, before the credits for that course can be counted toward their degree.

*Footnote Two:*
Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC 511, MUSC 512, MUSC 513 or MUSC 516. Students who fail to achieve an acceptable score must take MUSC 509 and receive a “B” or better prior to enrolling in any of these courses.
Physics and Astronomy Programs

Physics and Astronomy

Address: 303 Strong Hall
Phone: 734.487.4144
E-mail: aoakes@emich.edu
Web site: www.physics.emich.edu/index.htm

The Department of Physics and Astronomy offers three programs leading to the master of science degree: (1) the physics program for those intending to pursue doctoral studies; (2) the physics education program for high school physics teachers wishing to improve their physics background or prepare for further graduate study; and (3) the interdisciplinary general science program for junior high school teachers seeking to strengthen their science background.

Each program requires at least 30 hours of graduate-level course work. No more than nine hours of 400-level undergraduate courses may be used. Up to six hours of course work in cognate areas may be included. Students must arrange a program of study with their assigned adviser.

The department’s honor society, Sigma Pi Sigma, is the official honor society of the physics profession. Through election to Sigma Pi Sigma, distinctive achievement and high scholarship in physics is recognized and celebrated. Sigma Pi Sigma exists to honor outstanding scholarship in physics; to encourage interest in physics among students at all levels, to promote an attitude of service in its members towards their fellow students, colleagues and the public; and to provide a fellowship of persons who have excelled in physics. The faculty adviser and a committee of active Sigma Pi Sigma members nominate prospective members.

Physics and Astronomy Programs and Courses

Master's

Master of Science in General Science (GSC)

Advisers:
Patrick Koehn, PhD.
302C Strong
734.487.8795
pkoehn@emich.edu
Beth Kubitskey, PhD.
315 Strong
734.487.8798
mkubitske1@emich.edu

Admission Requirements
Applicants must have at least 30 hours of course work in four of the five science areas of astronomy, biology, chemistry, earth science and physics. At least a minor in one of these areas or in mathematics is required. Mathematics preparation through college algebra and trigonometry is mandatory. Students who do not meet these requirements may be granted conditional admission requiring the completion of additional undergraduate course work in science and/or mathematics. Admission is restricted to those who are either teaching or planning to teach.

Degree Requirements
This interdisciplinary program, covering the five science areas listed above, is designed for junior high school teachers who wish to upgrade their science content and methodology as they prepare for leadership roles in science education.
Graduation requirements include 30 hours of approved course work, with at least four but not more than six credit hours related to the methods of teaching science at the secondary level.

Course Requirements:

The M.S. in general science requires 30 hours of course work to be distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 4 hours

- PHY 622 - New Approaches to the Teaching of Science in the Junior High School I Credit Hours: 2 hrs
- PHY 623 - New Approaches to the Teaching of Science in the Junior High School II Credit Hours: 2 hrs

Elective Courses: 20-26 hours

Twenty to 26 hours selected in consultation with the graduate adviser from the five science areas listed above or from mathematics.

Cognate Courses: 0-6 hours

Zero to six hours selected in consultation with the graduate adviser.

Program Total: 30 hours

Note:

Footnote:
PHY 622/623 requirement may be waived in exceptional cases upon department approval.

Master of Science in Physics (PHY)

Adviser: Marshall Thomsen, PhD.
302B Strong Hall
734.487.8794
jthomsen@emich.edu

Admission Requirements
Applicants should have the equivalent of an under graduate major in physics with a strong background in mathematics including multivariable calculus and differential equations. Students who do not meet these requirements may be granted conditional admission requiring additional undergraduate course work in physics and/or mathematics.

Program Requirements
The M.S. in physics prepares students in traditional physics research. Its graduates are well-prepared for doctoral study or for junior college or community college teaching.

Graduation requirements include 30 hours of approved graduate credit, satisfactory performance on a comprehensive written/oral examination and the completion of a research problem culminating in a written thesis or report.

Course Requirements:

The M.S. in physics requires the completion of 30 hours of course work to be distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 28-30 hours

- PHY 481 - Mathematical Physics Credit Hours: 3 hrs
- PHY 510 - Proposal Writing in Physics Credit Hours: 1 hr
- PHY 530 - Topics in Computational and Advanced Physics I Credit Hours: 4 hrs
- PHY 531 - Topics in Computational and Advanced Physics II Credit Hours: 2 hrs
- PHY 541 - Modern Optics Credit Hours: 4 hrs
• PHY 662 - Advanced Mechanics I Credit Hours: 3 hrs
• PHY 671 - Electromagnetic Theory Credit Hours: 4 hrs
• PHY 675 - Quantum Mechanics Credit Hours: 4 hrs

Three to six hours from the following:

• PHY 690 - Thesis/Final Project Credit Hours: 1 hr
• PHY 691 - Thesis/Final Project Credit Hours: 2 hrs
• PHY 692 - Thesis/Final Project Credit Hours: 3 hrs

Elective Courses in physics: 0-5 hours

Zero to five hours will be filled through electives within the department. Up to five hours only if PHY481 is waived.

Program Total: 30 hours

Note:

*PHY 481 requirement may be waived in exceptional cases upon department approval

Undergraduate Courses for Graduate Credit: Physics and Astronomy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• PHY 406 - Ethical Issues in Physics Credit Hours: 1 hr
• PHY 420 - Capstone Project Credit Hours: 3 hrs
• PHY 431 - Intermediate Mechanics II Credit Hours: 3 hrs
• PHY 436 - Vibration and Sound Credit Hours: 4 hrs
• PHY 442 - Optics and Optics Laboratory Credit Hours: 4 hrs
• PHY 444 - Applied Optics Credit Hours: 2 hrs
• PHY 450 - Electricity and Magnetism II Credit Hours: 3 hrs
• PHY 452 - Electrical Measurements Credit Hours: 4 hrs
• PHY 456 - Electronics Credit Hours: 4 hrs
• PHY 458 - Electronic Devices for Scientists Credit Hours: 4 hrs
• PHY 462 - Kinetic Theory and Statistical Mechanics Credit Hours: 3 hrs
• PHY 471 - Atomic and Nuclear Physics Credit Hours: 3 hrs
• PHY 475 - Introduction to Quantum Mechanics Credit Hours: 3 hrs
• PHY 481 - Mathematical Physics Credit Hours: 3 hrs
• PHY 485 - Fluid Dynamics Credit Hours: 3 hrs
• PHY 495 - Readings in Physics (Honors Course) Credit Hours: 1 hr

Master of Science in Physics Education (PHYE)

Adviser: Diane Jacobs, PhD.
333 Strong
734.4878646
djacobs@emich.edu

Admission Requirements
Applicants must have at least the equivalent of an undergraduate minor in physics with a background in mathematics through multivariable calculus. Students who do not meet these requirements may be granted conditional admission requiring additional undergraduate course work in physics and/or mathematics. Admission is restricted to in-service teachers and those intending to enter the teaching profession.
Program Requirements
Graduation requirements include completion of 30 hours of approved graduate credit, satisfactory performance on a comprehensive oral examination and the completion of an essay in physics, the history of physics or the teaching of physics.

Course Requirements:

The M.S. in physics education requires the completion of 30 hours of course work to be distributed among required courses, elective courses and cognate courses as follows:

Required Courses: 4 hours
- PHY 650 - New Approaches to Teaching Physics I Credit Hours: 2 hrs
- PHY 651 - New Approaches to Teaching Physics II Credit Hours: 2 hrs

Elective Courses in Physics: 20-26 hours
Twenty to 26 hours selected in consultation with the graduate adviser.

Cognate Courses: 0-6 hours
Zero to six hours selected in consultation with the graduate adviser.

Program Total: 30 hours

Note:

Footnote:
PHY 650/651 requirement may be waived in exceptional cases upon department approval.

Undergraduate Courses for Graduate Credit: Physics and Astronomy

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- PHY 406 - Ethical Issues in Physics Credit Hours: 1 hr
- PHY 420 - Capstone Project Credit Hours: 3 hrs
- PHY 431 - Intermediate Mechanics II Credit Hours: 3 hrs
- PHY 436 - Vibration and Sound Credit Hours: 4 hrs
- PHY 442 - Optics and Optics Laboratory Credit Hours: 4 hrs
- PHY 444 - Applied Optics Credit Hours: 2 hrs
- PHY 450 - Electricity and Magnetism II Credit Hours: 3 hrs
- PHY 452 - Electrical Measurements Credit Hours: 4 hrs
- PHY 456 - Electronics Credit Hours: 4 hrs
- PHY 458 - Electronic Devices for Scientists Credit Hours: 4 hrs
- PHY 462 - Kinetic Theory and Statistical Mechanics Credit Hours: 3 hrs
- PHY 471 - Atomic and Nuclear Physics Credit Hours: 3 hrs
- PHY 475 - Introduction to Quantum Mechanics Credit Hours: 3 hrs
- PHY 481 - Mathematical Physics Credit Hours: 3 hrs
- PHY 485 - Fluid Dynamics Credit Hours: 3 hrs
- PHY 495 - Readings in Physics (Honors Course) Credit Hours: 1 hr
Political Science Programs

Political Science

Address: 601 Pray-Harrold
Phone: 734.487.3113
Fax: 734.487.3340
E-mail: political.science@emich.edu
Web site: www.emich.edu/public/polisci/index.html

The Public Administration Programs at EMU are designed primarily to serve the staffing needs of state and local governments and nonprofit organizations in Southeastern Michigan. We offer a Master of Public Administration (MPA) degree, accredited by the National Association of Schools of Public Affairs and Administration (NASPAA), on the Ypsilanti campus and at the Livonia Center at I-275 and Six Mile Road. We also offer eight graduate certificates in General Public Management, Local Government Management, Management of Public Healthcare Services, Non-Profit Management, Public Budget Management, Public Land Planning and Development Management, Public Personnel Management and Public Policy Analysis. In addition the Department of Political Science participates in the interdisciplinary master of arts (MA) in social science with a concentration in political science (for details on this program see listing with the Department of History and Philosophy in this catalog.)

Political Science Programs and Courses

Graduate Certificate Description

Graduate Certificates in Public Administration

Adviser: Joseph Ohren, PhD.
601 Pray Harrold
734.487.2522
johren@emich.edu

The Political Science Department offers eight graduate certificates that build upon the M.P.A. curriculum. The primary goal of these graduate certificates is to provide students with graduate level training short of a full masters degree curriculum that complements and supports their need for professional development in public management and their desire for personal enhancement. All certificates are flexible enough to serve either pre-service or in-service student audiences who are either entering the workforce or are already in the workforce and seeking a change from professional or technical roles to managerial roles, or from nonprofessional roles to professional or technical roles, or possibly using the certificate courses as part of or all of a master’s degree minor;

Specifically, the objectives of the certificate programs are to:

1. Provide an overview of public management concepts of politics/administration, leadership, ethics, human resources, budgeting and organizational theory;
2. Provide coursework that is specific to the skill set that is needed for various public management careers;
3. Be flexible enough to serve either pre-service or in-service student audiences who are either entering the workforce or are already in the workforce and seeking a change from professional or technical roles to managerial roles, or from nonprofessional roles to professional or technical roles, or possibly using the certificate courses as part of or all of a master’s degree minor;
4. Enable students to complete their certificate curriculum in eighteen to twenty-four months maximum;
5. Enable students who complete the certificate and decide on a full Master’s degree in Public Administration to transfer all of the certificate coursework into the M.P.A. program of studies;
6. Enable students who currently hold a graduate degree, including an M.P.A., to obtain an additional area of specialization.

**Admission Requirements for Graduate Certificates**

*Applicants must fulfill all of the admissions requirements of the Master of Public Administration Program.*

**Combined**

**Combined Bachelor's Degree in Political Science or Public Administration and Master's of Public Administration Degree (PLPA or PAPA)**

The Combined Bachelor’s Degree in Political Science (PLPA) or Public Administration (PAPA) and Master’s of Public Administration Degree is an accelerated five year program in which exceptional students will earn both undergraduate and graduate degrees. Students will spend their first three years engaged in undergraduate studies and their final two completing the graduate program. The total number of credits needed for the program will be 150. At the undergraduate level, students will complete their General Education requirements, a minor and an abbreviated version of the undergraduate Public Administration or Political Science major. Starting their fourth year, students will complete all 40-46 hours of M.P.A. program, and a portion of the credits will double count toward the undergraduate BS degree.

The curriculum requires two internships, one as part of the undergraduate major, the second in the M.P.A. portion. Thus, students will have substantial field experience in public administration upon completing the full B.S./M.P.A. degrees.

**Admission**

Students will be invited to apply to the Combined Degree Program by November 1 of their junior year, and will be offered admission by December 1 of their junior year. Applications will require letters of recommendation, a personal statement focusing on career goals and reasons for applying to the program, and an interview with the MPA Director (or his/her designate). A minimum 3.3 grade-point average will be required for entry to this program.

Combined Bachelor's Degree in Political Science and Master's of Public Administration Degree (PLPA)

**General Education Requirements:** 40 hours

**Additional Requirements:** 3 hours

- PLSC 112/113 - American Government Credit Hours: 3 hrs

**Undergraduate Requirements:** 30 hours

**Required Core Courses:** 9 hours

- PLSC 210 - Introduction to Political Analysis Credit Hours: 3 hrs
- PLSC 270 - Public Administration Credit Hours: 3 hrs
- PLSC 480 - Field Seminar in Political Science/Public Administration Credit Hours: 3 hrs

**Restricted Electives:** 6 hours

**Two courses from the following:**

- PLSC 211 - Introduction to Comparative Government Credit Hours: 3 hrs
- PLSC 212 - Introduction to International Politics Credit Hours: 3 hrs
- PLSC 213 - Introduction to Political Thought Credit Hours: 3 hrs

**Distribution Requirements:** 9 hours

*Three courses from the groups listed below, including at least one course from each group:*
I. Comparative Politics and International Relations

- PLSC 221 - America at War: From Vietnam to Iraq Credit Hours: 3 hrs
- PLSC 222 - War and Peace in the Nuclear Age Credit Hours: 3 hrs
- PLSC 308 - Political Violence and Revolution Credit Hours: 3 hrs
- PLSC 311 - Politics of the Developing World Credit Hours: 3 hrs
- PLSC 327 - American Foreign Policy Process Credit Hours: 3 hrs
- PLSC 341 - International Law Credit Hours: 3 hrs
- PLSC 342 - International Organizations Credit Hours: 3 hrs
- PLSC 343 - Model United Nations Credit Hours: 3 hrs
- PLSC 354 - Government and Politics of Canada Credit Hours: 3 hrs
- PLSC 361 - Russian Politics in Transition Credit Hours: 3 hrs
- PLSC 367 - Latin American Politics Credit Hours: 3 hrs
- PLSC 371 - Government and Politics of the Middle East Credit Hours: 3 hrs
- PLSC 372 - Government and Politics of Sub-Saharan Africa Credit Hours: 3 hrs
- PLSC 374 - Asian Political Systems Credit Hours: 3 hrs
- PLSC 462 - Russian Foreign Relations Credit Hours: 3 hrs
- PLSC 467 - Advanced International Relations Credit Hours: 3 hrs

II. Political Theory and Methods

- PLSC 120 - Global Issues Credit Hours: 3 hrs
- PLSC 310 - Methods of Political Research Credit Hours: 3 hrs
- PLSC 382 - Politics and the 21st Century Credit Hours: 3 hrs
- PLSC 390 - Poverty, Human Rights and Health Credit Hours: 3 hrs
- PLSC 391 - Field Study: Global Experience - Poverty, Human Rights and Health Credit Hours: 3 hrs
- PLSC 410 - Political Science in Fiction Credit Hours: 3 hrs
- PLSC 418 - 20th-Century Political Theory Credit Hours: 3 hrs
- PLSC 420 - Democracy and Power Credit Hours: 3 hrs
- PLSC 422 - American Political Theory Credit Hours: 3 hrs

Graduate Courses Toward Undergraduate Major: 6 hours

Minor Requirements: 20 hours

University Elective Courses: 23 hours

Graduate Courses Toward MPA Only: 34-40 hours

Program Total: 150 hours

Note:

*Each student must choose a writing intensive course as part of major completion requirements. Consult your adviser for course options.*

Combined Bachelor’s Degree in Public Administration and Master’s of Public Administration Degree (PAPA)

General Education Requirements: 40 hours

Additional Requirements: 3 hours

- PLSC 112/113 - American Government Credit Hours: 3 hrs

Undergraduate Requirements: 30 hours

Required Core Courses: 9 hours

- PLSC 210 - Introduction to Political Analysis Credit Hours: 3 hrs
- PLSC 270 - Public Administration Credit Hours: 3 hrs
• PLSC 480 - Field Seminar in Political Science/Public Administration Credit Hours: 3 hrs
Restricted Electives: 15 hours

Five courses from the following:
• PLSC 202 - State and Local Government Credit Hours: 3 hrs
• PLSC 216 - Municipal Government Credit Hours: 3 hrs
• PLSC 301 - American Legal System Credit Hours: 3 hrs
• PLSC 330 - Urban Politics Credit Hours: 3 hrs
• PLSC 332 - Intergovernmental Relations and Federalism Credit Hours: 3 hrs
• PLSC 334 - Personnel Administration in Government Credit Hours: 3 hrs
• PLSC 352 - Politics of Government Budgeting Credit Hours: 3 hrs
• PLSC 364 - Legislative Process Credit Hours: 3 hrs
• PLSC 380 - American Presidency Credit Hours: 3 hrs
• PLSC 381 - Public Policy Analysis Credit Hours: 3 hrs
• PLSC 385 - Judicial Process and Behavior Credit Hours: 3 hrs
• PLSC 381 - Theories of Public Organization Credit Hours: 3 hrs

Graduate Courses Toward Undergraduate Major: 6 hours

Minor Requirements: 20 hours

University Elective Courses: 23 hours

Graduate Courses Toward MPA Only: 34-40 hours

Program Total: 150 hours

Note:

Each student must choose a writing intensive course as part of major completion requirements. Consult your adviser for course options.

Graduate Certificate in General Public Management (GPM)

The Graduate Certificate in Public Management is a five-course (13-15 credit hours) curriculum designed to meet the professional needs of state, local and nonprofit employees with general management responsibilities. Individuals changing from entry-level nonprofessional or technical roles to managerial roles will find this certificate program beneficial.

Requirements
• PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
• PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
• PLSC 540 - Public Budget Administration Credit Hours: 3 hrs

Two courses from the following:
• PLSC 610 - Public Organization Theory Credit Hours: 3 hrs
• PLSC 615 - Public Budget Applications Credit Hours: 2 hrs
• PLSC 620 - Administrative Law Credit Hours: 2 hrs
• PLSC 625 - Local Government Management Credit Hours: 2 hrs
• PLSC 630 - Public Bureaucracies and Policy Formation Credit Hours: 3 hrs
• PLSC 645 - Intergovernmental Relations Credit Hours: 2 hrs
Certificate Total: 13-15 hours

Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Local Government Management (LGM)

The Graduate Certificate in Local Management is a five-course (13-15 credit hours) curriculum designed to meet the professional needs of general management employees in local governments (municipal, township and county) including private citizens who are interested in local policy issues and who may be involved in neighborhood associations or local advisory boards. Individuals changing from entry level, nonprofessional, professional or technical roles to managerial roles will find this certificate program beneficial.

Requirements

• PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
• PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
• PLSC 520 - Land Use and Preservation Law Credit Hours: 3 hrs
• PLSC 540 - Public Budget Administration Credit Hours: 3 hrs
• PLSC 625 - Local Government Management Credit Hours: 2 hrs
One course from the following:

• PLSC 565 - Studies in State and Local Government Credit Hours: 2 hrs
• PLSC 645 - Intergovernmental Relations Credit Hours: 2 hrs
• PLSC 650 - Urban Poverty Policy Credit Hours: 2 hrs
• PLSC 655 - Politics of Local Planning Credit Hours: 2 hrs
Certificate Total: 13 hours

Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Management of Public Healthcare Services (MPH)

The Graduate Certificate in Management of Public Healthcare Services is a five-course (14-15 credit hours) curriculum designed to meet the professional needs of managers working in the health care field including hospitals, public health departments, nursing homes, managed care agencies, insurance agencies, home health care systems and private medical practices. Individuals changing from entry-level, nonprofessional, professional, or technical roles to managerial roles will find this certificate program beneficial.
Requirements

- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
One course from the following:

- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs
Two courses from the following:

- HLAD 511 - Health Law Credit Hours: 3 hrs
- HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs
- PLSC 660 - Public Health Care Policy Credit Hours: 2 hrs
Certificate Total: 14-15 hours

Graduate Certificate in Nonprofit Management (NPMG)

Dr. Don Koyluoglu
Address 601N Pray Harrold
Phone: 734.487.3113
E-mail: sukru.koyluoglu@emich.edu

This interdisciplinary graduate certificate is designed to develop management competencies for working professionals in public and nonprofit organizations. Competency areas cover practical skills for building management capacity of an organization, such as financial management of resources and accountability for performance; governance issues and the legal and ethical environment of nonprofit organizations; human resources; managerial techniques; and technology and information systems. Coursework is focused on management skill development for immediate, practical application of the knowledge gained from the program to nonprofit organizations, rather than concepts and theory. The program may provide a foundation for further graduate work in business, public administration, health and human service and other disciplines or extend the skills of professionals who already have graduate degrees, such as a master’s in social work.

Requirements

- ACC 646 - Financial Management of Nonprofit Organizations Credit Hours: 3 hrs
- LAW 603 - Legal Environment of Nonprofit Organizations Credit Hours: 3 hrs
- PLSC 605 - Leadership and Nonprofit Management Credit Hours: 3 hrs
Two courses from the following:

- ACC 605 - Strategic Information and Control Systems Credit Hours: 3 hrs
- MGMT 509 - Strategic Human Resource Management Credit Hours: 3 hrs
- MGMT 570 - New Venture Creation Credit Hours: 3 hrs
- MGMT 628 - Human Resource Development Credit Hours: 3 hrs
- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs
- PLSC 590 - Special Topics Credit Hours: 1 hr
- PLSC 591 - Special Topics Credit Hours: 2 hr
- PLSC 592 - Special Topics Credit Hours: 3 hrs
- PLSC 645 - Intergovernmental Relations Credit Hours: 2 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs
- SWRK 662 - Grant Writing and Resource Development Credit Hours: 3 hrs
- SWRK 694 - Community Action Seminar Credit Hours: 2 hrs
Certificate Total: 14-15 hours
Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Public Budget Management (PBM)

The Graduate Certificate in Public Budget Management is a five-course (14 credit hours) curriculum designed to meet the professional needs of budget or line personnel with budget responsibilities in state, municipal, township, and county government agencies and nonprofit organizations (healthcare, social services, and arts). Individuals changing from entry-level, nonprofessional, professional, or technical roles to managerial roles will find this certificate program beneficial.

Requirements

- PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs
- PLSC 615 - Public Budget Applications Credit Hours: 2 hrs

Two courses from the following:

- ACC 546 - Public and Nonprofit Sector Accounting Credit Hours: 3 hrs
- ACC 646 - Financial Management of Nonprofit Organizations Credit Hours: 3 hrs
- ECON 550 - Public Finance: Analysis and Policy Credit Hours: 3 hrs
- ECON 551 - State and Local Government Finance Credit Hours: 3 hrs

Certificate Total: 14 hours

Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Public Land Planning and Development Management (PLP)

The Graduate Certificate in Public Land Planning and Development Management is a five-course (12-14 credit hours) curriculum designed to meet the professional needs of community development, planning, or economic development personnel, as well as citizen advisory boards in municipal, township, and county government agencies, including regional planning agencies and downtown development authorities. Individuals changing from entry-level, nonprofessional, professional, or technical roles to managerial roles will find this certificate program beneficial.

Requirements

- GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
- PLSC 510 - Modern Public Administration Credit Hours: 3 hrs

One course from the following:

- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs

Two courses from the following:

- GEOG 555 - Comprehensive Planning Credit Hours: 2 hrs
GEOG 556 - Zoning Credit Hours: 2 hrs
GEOG 557 - Community Development and Downtown Revitalization Credit Hours: 3 hrs
GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
GEOG 581 - Advanced Environmental Assessment Credit Hours: 3 hrs
PLSC 520 - Land Use and Preservation Law Credit Hours: 3 hrs
PLSC 655 - Politics of Local Planning Credit Hours: 2 hrs
Certificate Total: 12-14 hours

Undergraduate Courses for Graduate Credit: Political Science
Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Public Personnel Management (PPM)

The Graduate Certificate in Public Personnel Management is a five-course (14 credit hours) curriculum designed to enhance career opportunities for human resources staff members, including those changing from entry-level, nonprofessional, professional, or technical roles to managerial roles. It is appropriate for individuals working in most public (state, municipal, township, county, school district) and nonprofit (health, social services, arts) agencies.

Requirements
- PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
- PLSC 665 - Basic Arbitration Training for Professionals Credit Hours: 2 hrs
Two courses from the following:
- ECON 505 - Collective Bargaining in Public and Private Sectors Credit Hours: 3 hrs
- MGMT 611 - HR and Technology Credit Hours: 3 hrs
- MGMT 618 - Staffing Organizations Credit Hours: 3 hrs
- MGMT 620 - Compensation Management Credit Hours: 3 hrs
- MGMT 625 - Management in Unionized Settings Credit Hours: 3 hrs
- MGMT 628 - Human Resource Development Credit Hours: 3 hrs
Certificate Total: 14 hours

Undergraduate Courses for Graduate Credit: Political Science
Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Graduate Certificate in Public Policy Analysis (PPA)

The Graduate Certificate in Public Policy Analysis is a six-course (16-17 credit hours) curriculum designed to meet the professional needs of state, local and nonprofit employees as well as private citizens with an interest in developing quantitative analytical skills for public policy issues. Students will learn about policy-making process, impact, cost benefit and economic analysis. Individuals changing from entry-level, nonprofessional, or technical roles to professional roles will find this certificate program beneficial.

Before enrolling in this certificate program, all students will be required to have the prerequisites of an introductory macro and micro economies class or the equivalent of ECON500 Economics: Principles and Institutions, plus a basic social science statistics class; 400-level economics classes will be taken for graduate credit.
Requirements

- PLSC 630 - Public Bureaucracies and Policy Formation Credit Hours: 3 hrs
- PLSC 635 - Public Policy Analysis Techniques and Applications Credit Hours: 2 hrs

Three courses from the following:

- Select one substantive policy focused course in health care, environment, planning, education, nursing, gerontology, social work, poverty, local government, etc. (2-3 hrs)
- ECON 415 - Introduction to Econometrics Credit Hours: 3 hrs
- ECON 455 - Cost-Benefit Analysis Credit Hours: 3 hrs
- ECON 501 - Macroeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 502 - Microeconomic Theory and Policy Credit Hours: 3 hrs
- ECON 515 - Econometrics: Theory and Applications Credit Hours: 3 hrs

Certificate Total: 16-17 hours

Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.

Master's

Master of Public Administration (M.P.A.) Programs (PADM)

M.P.A. Director: Joseph Ohren
Phone: 734.487.2522

Program Coordinator: Don Koyluoglu
Phone: 734.487.0063

www.emich.edu/public/polisci/pubad

Mission Statement
The mission of the M.P.A. Program at Eastern Michigan University is to prepare students for leadership roles and careers in public and nonprofit organizations. In pursuing this mission, the M.P.A. program will (1) offer a professional, terminal degree grounded in political science; (2) combine a foundation in general public administration with the specialized knowledge and skills associated with one of the program’s concentrations with focused attention to the needs of professionals in local government and nonprofit agencies; and (3) serve the community by expanding and applying knowledge and providing leadership in addressing public service needs.

Accreditation
The M.P.A. Program is fully accredited by the National Association of Schools of Public Affairs and Administration. This accreditation indicates that EMU’s M.P.A. program meets all national standards for such programs.

Department Activities
The department offers special opportunities to M.P.A. students by its involvement and leadership roles in EMU’s applied research institutes, the American Humanities program on campus, the Detroit Metropolitan Chapter of the American Society for Public Administration (ASPA), the Michigan Local Government Management Association (MLGMA) and other professional associations.

Graduate Assistantships
Graduate assistantships are available on a competitive basis to M.P.A. students. Graduate assistants support faculty members in instructional, research, service and administrative projects. Placements are also available outside the department with other University offices.

**Admission Requirements**

**Degree Admissions**

Applicants must:

1. Have an undergraduate GPA of 2.75, or 3.0 in the last half of the undergraduate program;
2. Submit a 250-word description of their academic and professional history and their professional goals in public administration;
3. Have a personal interview with the program director, which is strongly recommended as a part of the admission process;
4. Have one political science course in the fundamentals of American government, public law, state and local government or public administration;
5. Have earned a C or better if the preparatory course was part of a bachelor’s degree; a B- or better if taken after the bachelor’s degree;
6. Graduate Record Examinations (GRE) is not required; and
7. Applicants whose native language is not English must achieve minimum scores on the Test of English as a Foreign Language (TOEFL), or 77 on the Michigan English Language Assessment Battery (MELAB). Students with scores below the minimum must take English as a Second Language (ESL) courses at EMU to raise their English proficiency to a satisfactory level before beginning courses in the M.P.A. program. These students may be admitted on a conditional basis, subject to successful completion of the ESL requirements. See Admissions web site at www.emich.edu/admissions for minimum scores. Conditional Admission If applicants are deficient in the above prerequisites, they may be granted admission on a conditional basis, with degree admission subject to completion of the missing prerequisite(s).

**Conditional Admission**

If applicants are deficient in the above prerequisites, they may be granted admission on a conditional basis, with degree admission subject to completion of the missing prerequisite(s).

In lieu of the above prerequisite course, documentation of acquired proficiency and/or appropriate experience may be accepted at the discretion of the M.P.A. director.

Promising applicants who do not meet the GPA requirements for regular degree admission, and who have a GPA between 2.5 and 2.75, may be granted conditional admission. Such applicants must arrange for an admissions interview with the program director and submit two letters of recommendation from employers or others who can testify to the applicant’s suitability for the program. Applicants may be granted degree admission after completing at least 10 graduate hours approved by the program director, with a minimum grade of 3.0 (B) in each course.

**Degree Requirements**

The MPA degree is awarded upon satisfactory completion of 17 courses with at least 40 hours of appropriate credit. This includes 9 required courses, four electives in political science, and a four course concentration. All pre-service students without substantial work experience in public administration must complete a 15-week equivalent internship experience and enroll in PLSC 688 Practicum in Public Affairs. The director of internships in the Department of Political Science will work with students to identify and supervise an appropriate internship.

The minimum acceptable grade in each of the nine required courses is a B. Students scoring less than a B may repeat the course once before being dismissed from the program. All students must have a B average overall to graduate.

**Required Courses:** 24 hours

- PLSC 510 - Modern Public Administration Credit Hours: 3 hrs
- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs
- PLSC 610 - Public Organization Theory Credit Hours: 3 hrs
- PLSC 615 - Public Budget Applications Credit Hours: 2 hrs
• PLSC 630 - Public Bureaucracies and Policy Formation Credit Hours: 3 hrs
• PLSC 677 - Analytical Methods for Public Administration Credit Hours: 2 hrs
• PLSC 678 - Analytical Techniques for Public Administration Credit Hours: 3 hrs
• PLSC 695 - Research Seminar in Public Administration Credit Hours: 2 hrs

Restricted Elective Courses: 8-12 hours

Four courses from the following:
• PLSC 565 - Studies in State and Local Government Credit Hours: 2 hrs
• PLSC 587 - Cooperative Education in Political Science Credit Hours: 3 hrs
• PLSC 590 - Special Topics Credit Hours: 1 hr
• PLSC 591 - Special Topics Credit Hours: 2 hr
• PLSC 592 - Special Topics Credit Hours: 3 hrs
• PLSC 597 - Independent Study Credit Hours: 1 hour
• PLSC 598 - Independent Study Credit Hours: 2 hours
• PLSC 599 - Independent Study Credit Hours: 3 hrs
• PLSC 605 - Leadership and Nonprofit Management Credit Hours: 3 hrs
• PLSC 620 - Administrative Law Credit Hours: 2 hrs
• PLSC 625 - Local Government Management Credit Hours: 2 hrs
• PLSC 635 - Public Policy Analysis Techniques and Applications Credit Hours: 2 hrs
• PLSC 640 - Modern County Government Credit Hours: 2 hrs
• PLSC 645 - Intergovernmental Relations Credit Hours: 2 hrs
• PLSC 650 - Urban Poverty Policy Credit Hours: 2 hrs
• PLSC 655 - Politics of Local Planning Credit Hours: 2 hrs
• PLSC 660 - Public Health Care Policy Credit Hours: 2 hrs
• PLSC 665 - Basic Arbitration Training for Professionals Credit Hours: 2 hrs
• PLSC 688 - Practicum in Public Affairs Credit Hours: 3 hrs
• PLSC 697 - Independent Study Credit Hours: 1 hr
• PLSC 698 - Independent Study Credit Hours: 2 hrs
• PLSC 699 - Independent Study Credit Hours: 3 hrs

Concentration Courses: 8-12 hours

Select one of the following eight concentration areas:

I. Public Management: 8-12 hours
Select four courses total with at least one course each from area A and area B:
A.) Communication and Human Interaction
   • One graduate course in CTAC selected in consultation with the M.P.A. Director.
   • ECON 505 - Collective Bargaining in Public and Private Sectors Credit Hours: 3 hrs
   • EDLD 710 - Leadership Theory Credit Hours: 3 hrs
   • GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs
   • MGMT 625 - Management in Unionized Settings Credit Hours: 3 hrs
B.) Techniques
   • INDT 502 Microcomputer Applications in Administration and Research (3 hrs)
   • EDPS 681 - Special Topics Credit Hours: 3 hrs
   • GEOG 579 - Geographic Information Systems Credit Hours: 3 hrs
   • SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs
   • SWRK 681 - Special Topics Credit Hours: 3 hrs

Note:

Students concentrating in public management will be required to enroll in PLSC 625 Local Government Management as one of their restricted electives listed above.

II. Health Administration: 10-12 hours
• One additional course that is complementary to the particular area of interest.

• HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
• HLAD 511 - Health Law Credit Hours: 3 hrs
• HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs

Note:

Students concentrating in health administration will be required to enroll in PLSC 660 Public Health Care Policy as one of their restricted electives listed above.

III. Land Planning and Development: 8-11 hours

• GEOG 553 - Urban and Regional Planning Credit Hours: 2 hrs

Three courses from the following:

• GEOG 555 - Comprehensive Planning Credit Hours: 2 hrs
• GEOG 556 - Zoning Credit Hours: 2 hrs
• GEOG 557 - Community Development and Downtown Revitalization Credit Hours: 3 hrs
• GEOG 570 - Rural Planning and Preservation Credit Hours: 2 hrs
• GEOG 581 - Advanced Environmental Assessment Credit Hours: 3 hrs
• GHPR 530 - Introduction to Historic Preservation Credit Hours: 2 hrs
• PLSC 520 - Land Use and Preservation Law Credit Hours: 3 hrs

Note:

Students concentrating in land planning and development will be required to enroll in PLSC 655 Politics of Local Planning as one of their restricted electives listed above.

IV. Gerontology: 12 hours

• GERT 512 - Applied Psychosocial Aspects of Aging Credit Hours: 3 hrs
• SWRK 552 - Policy Issues and Older People Credit Hours: 3 hrs
• SWRK 553 - Ethnicity and Gender Issues Among the Aged Credit Hours: 2 hrs

One course from the following:

• GERT 417 - Work and Retirement Credit Hours: 2 hrs
• GERT 514 - Caregiving and the Elderly Credit Hours: 2 hrs
• SOCL 681 - Special Topics Credit Hours: 3 hrs

Note:

Students concentrating in gerontology will be required to enroll in PLSC 660 Public Health Care Policy as one of their restricted electives listed above.

V. Human Resource Administration: 12 hours

• MGMT 618 - Staffing Organizations Credit Hours: 3 hrs
• MGMT 620 - Compensation Management Credit Hours: 3 hrs
• MGMT 628 - Human Resource Development Credit Hours: 3 hrs

One course from the following:

• ECON 505 - Collective Bargaining in Public and Private Sectors Credit Hours: 3 hrs
• MGMT 625 - Management in Unionized Settings Credit Hours: 3 hrs

Note:

Students concentrating in human resource management will be required to enroll in PLSC 655 as one of their restricted electives listed above. PLSC 515 will substitute for MGMT 509 as a prerequisite for MGMT 618, MGMT 620 and MGMT 628. PLSC 610 will substitute for MGMT 505 as a prerequisite for this concentration only.

VI. Organization Management: 12 hours
• MGMT 602 - Theory and Techniques of Organizational Development Credit Hours: 3 hrs
• MGMT 610 - Diagnostic Techniques and Research Methods Credit Hours: 3 hrs

Two courses from the following:

• MGMT 615 - Organization Design and Strategy Credit Hours: 3 hrs
• MGMT 628 - Human Resource Development Credit Hours: 3 hrs
• MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs
• MGMT 648 - Communication and Organizational Development Credit Hours: 3 hrs

Note:

Students concentrating in organization management will be required to enroll in MGMT 505 or PSY 565 as a prerequisite to all courses in this concentration. MGMT 505 or PSY 565 will count as an elective in the M.P.A. curriculum.

VII. Public Safety: 8 hours

• SSC 525 - Management/Leadership for Homeland Security Credit Hours: 2 hrs
• SSC 530 - Administering the Public Safety Agency Credit Hours: 2 hrs
• SSC 535 - Planning and Decision Making for Homeland Security Credit Hours: 2 hrs
• SSC 540 - Human Resource Management in Public Safety Agencies Credit Hours: 2 hrs
• SSC 545 - Managing the critical Incident for Homeland Security Credit Hours: 2 hrs
• SSC 550 - Managing Technology in the Public Safety Environment Credit Hours: 2 hrs

Note:

Students concentrating in public safety should be aware that some SSC courses required for this program call for nomination and admission to the Staff and Command School prior to enrollment. Please refer to this section of the graduate catalog for further information.

VIII. Nonprofit Management: 11-12 hours

• ACC 646 - Financial Management of Nonprofit Organizations Credit Hours: 3 hrs
• LAW 603 - Legal Environment of Nonprofit Organizations Credit Hours: 3 hrs

Two courses from the following:

• ACC 605 - Strategic Information and Control Systems Credit Hours: 3 hrs
• MGMT 570 - New Venture Creation Credit Hours: 3 hrs
• MGMT 628 - Human Resource Development Credit Hours: 3 hrs
• PLSC 605 - Leadership and Nonprofit Management Credit Hours: 3 hrs
• SWRK 570 - Supervising Staff and Volunteers Credit Hours: 3 hrs
• SWRK 662 - Grant Writing and Resource Development Credit Hours: 3 hrs
• SWRK 694 - Community Action Seminar Credit Hours: 2 hrs

Note:

Students concentrating in nonprofit management will be required to enroll in PLSC 645 as an elective in the M.P.A. curriculum.

Program Total: 44 hours

Undergraduate Courses for Graduate Credit: Political Science

Undergraduate courses may be taken for graduate credit to meet program or certificate requirements with explicit approval of the MPA advisor. Students intending to register for undergraduate courses for graduate credit must receive permission before enrolling in the course; otherwise undergraduate credit will be awarded.
Psychology Programs

Psychology

Address: 537 Mark Jefferson  
Phone: 734.487.1155 (department)  
734.487.0047 (graduate office)  
E-mail: cfreedman@emich.edu  
Web site: http://www.emich.edu/psychology/

The Department of Psychology offers graduate programs leading to a doctor of philosophy in clinical psychology and master of science degrees in psychology with emphases in general experimental psychology, clinical psychology and clinical behavioral psychology.

Psychology Programs and Courses

Doctorate

Doctor of Philosophy (Ph.D.) in Clinical Psychology (DPSY)

Adviser: Ellen Koch, PhD.  
537D Mark Jefferson  
734.487.0189  
ellen.koch@emich.edu

The graduate psychology programs are in the process of revision. Please contact the department with any questions regarding degree requirements.

Objectives
The purpose of the doctoral program is to graduate license-eligible clinical psychologists with state-of-the-art knowledge relating to the psychological practice of assessment, therapy, research and program development and evaluation. A primary program objective is the preparation of clinical psychologists who will be effective in supervising and managing therapists in multidisciplinary mental health care delivery systems in a diverse society. To meet these objectives, the program emphasizes fundamental scientist-practitioner skills such as practical clinical skills in assessment and treatment, and scholarly skills in designing, conducting, analyzing and disseminating research that contributes to the field of psychology. Students will acquire specialty skills needed for health care systems management that include conducting program evaluation research, demonstrating administrative/clinical management skills, developing training programs in treatment and assessment, establishing community education programs and supervising master’s-level clinicians. To meet these objectives, students will be provided with opportunities to:
   1. Practice assessment and treatment skills in a highly supervised environment.
   2. Work with and be supervised by faculty with expertise in a variety of assessment and treatment modalities.
   3. Use state-of-the-art equipment and technology employed in the field today.
   4. Propose and conduct research.
   5. Participate in a collegial atmosphere that is open to diverse opinions and viewpoints and prepares students to analyze the current literature critically.

Curriculum Design
The doctoral program is a full-time, full-residency program that is designed to be completed in five years. No part-time students will be accepted. The curriculum is designed to meet or exceed state and national guidelines for licensing and accreditation. The following curriculum components have been included:
State Licensing: Guidelines for licensing Ph.D. psychologists in Michigan state that a Ph.D. degree in clinical psychology must include, “an integrated, organized sequence of study which includes instruction in research design and methodology, statistics, psychometrics and scientific and professional ethics and standards.” The minimum requirements include a graduate course in three of the four bases of behavior (biological, cognitive-affective, social and individual differences) and courses in assessment and treatment. The national licensing exam covers all four subfields, as well as expertise in assessment and treatment. Our clinical program meets the more stringent national standard.

APA accreditation:
The program is currently APA accredited until 2010.

Specialty areas:
Our current M.S. in clinical psychology programs offer two different philosophical approaches. The clinical behavioral (CB) program defines clinical problems in terms of observable behavior and focuses on treatments involving changing the environment to help clients learn new behaviors. The general clinical (GC) program provides a multi-theoretical view of psychological disorders that emphasizes assessment, diagnosis and treatment from various perspectives. A unique feature of the doctoral program is the opportunity to emphasize either a GC or CB area, with exchange of ideas between the two.

Integration of M.S. and Ph.D. curricula:
The doctoral program builds on our current M.S. programs. Competent M.S. and Ph.D. clinicians must learn a complex of specialized assessment and treatment strategies. Our two M.S. programs concentrate on training effective therapists. Well-prepared Ph.D. clinicians need this skill-based training, as well as broad knowledge of the empirical, theoretical and philosophical underpinnings of the profession. Our doctoral program includes a series of Ph.D. seminars that serve as links between concurrently taught M.S.-level courses, the Ph.D. knowledge base and prepracticum training. For each two-credit course, students are required to spend two hours per week in scholarly discussions relevant to treatment, assessment and clinical practice. The topics in the seminars directly link material taught in the M.S. courses to the skills out lined above. Most Ph.D. programs require only a first-year seminar to introduce the profession. Our program fosters strong cohort groups by continuing this dialogue through out the program. Practicum work for the seminars will require three-to-five hours per week of client contact at the on-site clinic and two hours weekly in group and individual supervision. After mastering M.S.-level skills, Ph.D. students learn to train and supervise master’s-level clinicians. Doctoral students also take several courses designed to teach them the skills necessary to manage, supervise and evaluate health care systems. The curriculum is the only one of its kind in Michigan and one of very few in the nation. The curriculum includes psychology courses in organizational health care systems management, as well as existing courses in the human resource management and health and human services programs at EMU.

Doctoral Fellowship:
To help ensure the success of our students in the program, every student accepted will be eligible for full-time doctoral fellowship while they are enrolled in the program full time. Students will be assigned to a faculty member in their area of research interest. Students will spend 15- to-20 hours per week with that faculty member, assisting with research and teaching activities. Fellows may be asked to help with class preparations, as well as assist in data collection, preparation and analysis. The faculty members will serve as mentors to their students, training and guiding them in developing their own research plans formaster’s thesis and dissertation work. Students may request a specific faculty person as their mentor, and may request a change in mentor as they matriculate through the program. Every effort will be made to accommodate student requests within reason. Doctoral fellowship’s include a tuition waiver and a stipend.

Admission Requirements
Admission to the program is based on the following criteria:

1. Academic ability as measured by verbal, quantitative and an a lyrical scores on the GRE. In keeping with other Ph.D. programs in the state and with national criteria, admission requires a minimum of 1000 on the verbal and quantitative sections combined. However, successful applicants may present much higher scores given the highly competitive nature of clinical doctoral programs. It is recommended that applicants take the Advanced Psychology Test offered with the GRE.

2. Achievement in undergraduate or graduate work. Admission requires a minimum standard of a 3.0 on a 4.0 scale under graduate GPA. Again, successful applicants typically present much higher GPAs. Emphasis is placed on the GPA in psychology and in the last two undergraduate years. We will also consider admitting a limited number of M.S. clinicians. We will consider where students obtained their degrees, how recently course work was completed and what clinical work they have pursued since obtaining their degree. Course requirements will be determined on a case-by-case basis.
3. Academic background in psychology. Applicants must have completed a minimum of 20 semester hours in psychology, including a course in statistics and a laboratory course in experimental psychology. While not a prerequisite, courses in history and systems and/or abnormal psychology are highly desirable.

4. Personal qualities that predict success in graduate study and in professional placement after graduation. To evaluate these, each applicant must submit three letters of recommendation and complete a personal interview after an initial screening.

5. Fit between applicant and faculty interests. A personal statement is requested describing the applicant’s interests. We will be particularly interested in students who have had research and/or clinical experiences similar to those of our faculty.

Steps for Admission

Send to Graduate School:

1. Application for Graduate Admission form and fee. The personal statement you submit to the Department of Psychology may be used for the University application;

2. Official transcripts of all education beyond high school. Note: under current practice only when your Eastern Michigan University application and transcripts have been received by the Office of Admissions will your application be sent to the Department of Psychology. Consequently, you should also submit unofficial transcripts to the Department of Psychology directly with your application;

3. Official GRE results; and

4. If applicable, submit evidence of English language proficiency as demonstrated by official test scores on the TOEFL, MELAB, or TELTS.

Send to Department of Psychology:

1. Department application;

2. Three letters of recommendation, preferably from psychologists. At least one letter should be from a supervisor or teacher who is familiar with your clinical and/or academic work;

3. A vita or résumé and a writing sample that demonstrates scholarly abilities (research paper);

4. Unofficial transcripts and GRE scores (optional); and

5. Personal statement (see application for details).

Applications can be obtained from the graduate secretary or accessed via our web site at www.emich.edu/public/psych/index.htm. Completed applications, including GRE scores, letters of recommendation and transcripts, must be received by the Department of Psychology by January 15 for full consideration. Late applications may be considered until all openings are filled. Applicants will be notified by March 1 if an interview is warranted. In accordance with APA guidelines, acceptance notices will be made by April 15.

Eastern Michigan University and the Department of Psychology reserve the right to change any statement in this program concerning, but not limited to, rules, policies, tuition, fees, curricula and courses.

Program Requirements

The clinical doctoral program requires the completion of 85 to 86 graduate hours. The master’s degree is earned enroute to the doctoral degree, after completing all requirements specified in the general clinical (GC) or clinical behavioral (CB) master’s programs. Students in the doctoral program must complete a master’s thesis. Students may choose to specialize in the general clinical or clinical behavioral track for their master’s-level work. All students will specialize in health care systems management; there is no cognate or minor requirement. Students must obtain a B or better in the following core clinical classes: PSY 619, PSY 620, PSY 623, PSY 625, PSY 627, PSY 743, PSY 762, PSY 751.

Assessment: 8 hours

- PSY 762 - The Wechsler Intelligence Tests Credit Hours: 4 hrs

Restricted Elective Courses: 4 hours

One course from the following:

- PSY 619 - Behavioral Assessment Credit Hours: 3 hrs
- PSY 641 - Prepracticum in Behavioral Assessment Credit Hours: 1 hr
- PSY 763 - Individual Testing II Credit Hours: 4 hrs
- PSY 770 - Personality Evaluation I Credit Hours: 4 hrs
- PSY 771 - Projective Techniques Credit Hours: 4 hrs
Treatment: 8 hours

One course from the following:
See footnote below

- PSY 625 - Behavior Change Methods I: Applied Behavior Analysis Credit Hours: 3 hrs
- PSY 627 - Behavior Change Methods II: Behavior Therapy Credit Hours: 3 hrs
- PSY 661 - Prepracticum in Applied Behavior Analysis Credit Hours: 1 hr
- PSY 671 - Prepracticum in Behavior Therapy Credit Hours: 1 hr
- PSY 731 - Prepracticum in Psychotherapy Credit Hours: 1 hr
- PSY 751 - Psychotherapy Credit Hours: 3 hrs

Restricted Elective Courses: 4 hours

One course from the following or a second course from the above required treatment section:

- PSY 621 - Prepracticum in Behavioral Medicine Credit Hours: 1 hr
- PSY 628 - Behavioral Interventions with Children and Families Credit Hours: 3 hrs
- PSY 630 - Behavioral Medicine Credit Hours: 3 hrs
- PSY 631 - Prepracticum in Behavioral Interventions with Children and Families Credit Hours: 1 hr
- PSY 720 - Child and Family Therapy Credit Hours: 3 hrs
- PSY 791 - Prepracticum in Child and Family Therapy Credit Hours: 1 hr

Individual Differences: 9-10 hours

- PSY 640 - Developmental Psychology Credit Hours: 3 hrs
- PSY 743 - Psychopathology Credit Hours: 3 hrs

Restricted Elective Courses: 3-4 hours

- PSY 623 - Experimental Analysis of Behavior Credit Hours: 3 hrs
- PSY 646 - Personality: Theory and Research Credit Hours: 3 hrs
- PSY 651 - Prepracticum in Experimental Analysis of Behavior Credit Hours: 1 hr

Cognitive-Affective Bases of Behavior: 3 hours

One course from the following:

- PSY 620 - Learning Credit Hours: 3 hrs
- PSY 626 - Motivation and Emotion Credit Hours: 3 hrs
- PSY 635 - Cognitive Processes Credit Hours: 3 hrs

Biological Bases of Behavior: 3 hours

One course from the following:

- PSY 610 - Clinical Neuropsychology Credit Hours: 3 hrs
- PSY 629 - Physiological Psychology Credit Hours: 3 hrs
- PSY 632 - Sensation and Perception Credit Hours: 3 hrs

Social Bases of Behavior: 3 hours

- PSY 637 - Social Psychology Credit Hours: 3 hrs

Research: 16 or more hours

- PSY 600 - Psychological Statistics I Credit Hours: 3 hrs
- PSY 601 - Psychological Statistics II Credit Hours: 3 hrs
- PSY 605 - Research Design Credit Hours: 3 hrs
- PSY 690 - Thesis Credit Hours: 1 hr
- PSY 691 - Thesis Credit Hours: 2 hrs
- PSY 692 - Thesis Credit Hours: 3 hrs
- PSY 896 - Dissertation Credit Hours: 1 hr
- PSY 897 - Dissertation Credit Hours: 2 hrs
- PSY 898 - Dissertation Credit Hours: 4 hrs
- PSY 899 - Dissertation Credit Hours: 8 hrs
Professional Practice/Teaching: 8 hours

- PSY 670 - Scientific and Professional Ethics Credit Hours: 3 hrs
- PSY 777 - Advanced History and Systems of Psychology Credit Hours: 3 hrs
- PSY 807 - Methods of Teaching, Clinical Supervision and Training in Psychology Credit Hours: 2 hrs

Practicum: 4 hours

- PSY 683 - Field Practicum with Seminar Credit Hours: 2 hrs each
- PSY 684 - Field Practicum with Seminar Credit Hours: 2 hrs each

Doctoral Seminars and Doctoral Prepractica: 10 hours

- PSY 881 - Doctoral Seminar I: Assessment and Diagnosis Credit Hours: 2 hrs
- PSY 882 - Doctoral Seminar II: Assessment and Treatment Credit Hours: 2 hrs
- PSY 884 - Doctoral Seminar IV: Contrasting Theoretical Approaches to Treatment Credit Hours: 2 hrs
- PSY 885 - Doctoral Seminar V: Models of Service Delivery, Training and Supervision Credit Hours: 2 hrs
- PSY 888 - Doctoral Seminar VIII: Assessment and Treatment of Diverse Clinical Populations Credit Hours: 2 hrs

Health Care Systems: 9 hours

- PSY 703 - Clinical Organizational Management Credit Hours: 3 hrs

Two courses from the following, one must be a MGMT course:

- PSY 707 Practicum in Clinical Systems (3 hrs)
- MGMT 505 - Organizational Theory and Behavior and Business Communication Credit Hours: 3 hrs
- MGMT 509 - Strategic Human Resource Management Credit Hours: 3 hrs
- MGMT 570 - New Venture Creation Credit Hours: 3 hrs
- MGMT 602 - Theory and Techniques of Organizational Development Credit Hours: 3 hrs
- MGMT 603 - Corporate Entrepreneurship: Innovation and Technology Commercialization Credit Hours: 3 hrs
- MGMT 614 - Growth Strategies for Entrepreneurial Ventures Credit Hours: 3 hrs
- MGMT 615 - Organization Design and Strategy Credit Hours: 3 hrs
- MGMT 618 - Staffing Organizations Credit Hours: 3 hrs
- MGMT 628 - Human Resource Development Credit Hours: 3 hrs
- MGMT 636 - Current Topics in Entrepreneurship Credit Hours: 3 hrs
- MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs
- MGMT 648 - Communication and Organizational Development Credit Hours: 3 hrs
- PSY 701 - Organizational Systems Theory in Psychology Credit Hours: 3 hrs
- PSY 705 - Clinical Ecological Psychology Credit Hours: 3 hrs
- PSY 801 - Program Evaluation in Clinical Psychology Credit Hours: 3 hrs

Other Program Requirements

1. Master’s Prepracticum 200 to 300 hours (on-site; taken in conjunction with master’s courses)
2. Doctoral Prepracticum 120-150 hours (on-site; taken in conjunction with PSY881)
3. Practicum 800-1000 hours (starting spring of first year, doctoral students begin to see 1-2 clients at clinic along with telephone duty; fall of second year students continue at the clinic seeing more clients to accumulate 500 hours; in years three and four, doctoral students will continue to see 2-3 clients at the on site clinic; doctoral practicum is part of 20 hours per week doctoral assistantship.
4. Practicum two 500 hours (off site; often called an externship. Ph.D. students typically complete 1000 hours, working 20 hours per week for a year); students may opt to do an on site practicum at the clinic by increasing the number of clients that they see, students would apply for the in house practica just as they would an off site practica.
5. Qualifying paper (completed after third year in program)
6. M.S. clinical supervision and undergraduate teaching (in third and fourth years of program). Fourth years prepare two educational workshops for first year students for spring.
7. Clinical Predoctoral Internship (2,000 hours)
Program Total: 85 or more hours

Note:

Footnote: 

*Students must obtain a letter grade of a B or better in the core clinical classes.*

**Master's**

**Master of Science in Psychology (Clinical Behavioral) (PSYB)**

Adviser: Michelle Byrd, PhD.
537 Mark Jefferson
734.487.4919
mbyrd@emich.edu

This program prepares students for professional practice of psychology as limited license psychologists in Michigan, typically in such institutional settings as community mental health centers and private and public clinics and agencies, under the supervision of a doctoral-level psychologist. Students develop a wide range of behaviorally oriented skills for assessment and treatment, such as functional analysis, relaxation training, stress management and family intervention. The program stresses competency skills for employment as a master's-level psychologist in community mental health centers, outpatient clinics, private agencies, substance abuse programs, state agencies for persons with mental illness or developmental disabilities, traumatic brain injury centers and agencies for family and children. Graduates may also pursue advanced training at the doctoral level.

**Objectives**

1. To provide preparation for diverse employment opportunities in behavior therapy and applied behavior analysis.
2. To prepare students to meet state requirements for licensing master’s level psychologists.
3. To emphasize treatment skills.
4. To offer opportunity for basic and applied research.
5. To provide preparation for doctoral work.
6. To enable program completion by night attendance only, or in two years for full-time students.

**Admission Requirements**

Priority consideration will be given to applicants who meet all of the requirements for graduate degree admission status listed below:

1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of approximately 3.0 or better on a 4.0 scale;
3. Have at least 20 hours of credit in psychology, including statistics and experimental psychology;
4. Submit a transcript of GRE scores in which the sum of the scores for the verbal and quantitative sections is approximately 1000 or higher;
5. Present two letters of recommendation from employers or others who can testify to the applicant’s suitability for the program of study; and
6. Submit a written account of their academic and professional history and professional goals.

Incomplete applications may not be considered. Credits earned under non-degree student status do not automatically apply to the requirements of the degree program.

Applications should be submitted to the Office of Admissions as stipulated in this catalog. A copy of the application should also be mailed directly to the Department of Psychology.
There are no admissions to degree programs in the spring and summer sessions. After the admission quota for the program has been met, students will be placed on a waiting list, which does not guarantee admission unless spaces become available.

Course Requirements

The M.S. in psychology (clinical behavioral) requires the completion of 45 hours of course work to be distributed among required core courses, assessment (evaluation) courses, treatment (intervention) courses, practicum courses, elective courses and cognate courses as follows:

Required Core Courses: 11 hours

- PSY 600 - Psychological Statistics I Credit Hours: 3 hrs
- PSY 620 - Learning Credit Hours: 3 hrs
- PSY 623 - Experimental Analysis of Behavior Credit Hours: 3 hrs
- PSY 670 - Scientific and Professional Ethics Credit Hours: 3 hrs

Assessment (Evaluation): 7 hours

- PSY 619 - Behavioral Assessment Credit Hours: 3 hrs
- PSY 762 - The Wechsler Intelligence Tests Credit Hours: 4 hrs

Treatment (Intervention): 6 hours

- PSY 625 - Behavior Change Methods I: Applied Behavior Analysis Credit Hours: 3 hrs
- PSY 627 - Behavior Change Methods II: Behavior Therapy Credit Hours: 3 hrs

Practicum: 8 hours

- PSY 641 - Prepracticum in Behavioral Assessment Credit Hours: 1 hr
- PSY 651 - Prepracticum in Experimental Analysis of Behavior Credit Hours: 1 hr
- PSY 661 - Prepracticum in Applied Behavior Analysis Credit Hours: 1 hr
- PSY 671 - Prepracticum in Behavior Therapy Credit Hours: 1 hr
- PSY 683 - Field Practicum with Seminar Credit Hours: 2 hrs each
- PSY 684 - Field Practicum with Seminar Credit Hours: 2 hrs each

Elective Courses: 13 hours

Thirteen hours selected from psychology courses within the department in consultation with the graduate adviser.

Program Total: 45 hours

Note:

Footnote:

Students admitted to the clinical behavioral program must achieve a minimum grade of B in each of the following courses: PSY 619, PSY 620, PSY 623, PSY 625 and PSY 627. A student who receives a grade lower than B in any of these courses may elect to repeat the class in order to meet graduation requirements.

Master of Science in Psychology (General Clinical) (PSYC)

Adviser: Dean Lauterbach, PhD.
537 Mark Jefferson
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dlauterba@emich.edu

Objectives

This program prepares students for professional practice of psychology as limited license psychologists in Michigan, typically in such institutional settings as community mental health centers and private and public clinics and agencies, under the supervision of a doctoral-level psychologist. Students are trained in diagnosis and treatment of psychiatric
disorders using multitheoretical contemporary approaches.

Students are trained to recognize, assess and alleviate client problems. Graduates will be able to engage research problems typically found in the clinical setting. The practicum experiences provide opportunities to develop a variety of skills in assessment, diagnosis, psychotherapy and research and foster professional growth through interaction with experts from allied areas such as medicine, social work, psychiatry and public health. Graduates of this program have successfully gained admission to doctoral programs in psychology.

**Admission Requirements**

Priority consideration will be given to applicants who meet all of the requirements for graduate degree admission status listed below:

1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of approximately 3.0 or better on a 4.0 scale;
3. Have at least 20 hours in psychology, including statistics and experimental psychology;
4. Submit a transcript of GRE scores in which the sum of the scores for the verbal and quantitative sections is approximately 1000 or higher;
5. Present two letters of recommendation from employers or others who can testify to the applicant’s suitability for the program of study; and
6. Submit a written account of their academic and professional history and professional goals.

Incomplete applications may not be considered. Credits earned under non-degree student status do not automatically apply to the requirements of the degree program.

Applications should be submitted to the Office of Admissions as stipulated in this catalog. A copy of the application should also be mailed directly to the Department of Psychology.

There are no admissions to degree programs in the spring and summer sessions. After the admission quota for the program has been met, students will be placed on a waiting list, which does not guarantee admission unless spaces become available.

**Course Requirements**

The M.S. in psychology (general clinical) requires the completion of 45 hours of course work to be distributed among required core courses, assessment courses, professional practice/treatment courses, practicum courses, elective courses and cognate courses as follows:

**Required Core Courses: 9 hours**
- PSY 600 - Psychological Statistics I Credit Hours: 3 hrs
- PSY 646 - Personality: Theory and Research Credit Hours: 3 hrs
- PSY 743 - Psychopathology Credit Hours: 3 hrs

**Assessment: 8 hours**
- PSY 762 - The Wechsler Intelligence Tests Credit Hours: 4 hrs

One course from the following:
- PSY 770 - Personality Evaluation I Credit Hours: 4 hrs
- PSY 771 - Projective Techniques Credit Hours: 4 hrs

**Professional Practice/Treatment: 7 hours**
- PSY 670 - Scientific and Professional Ethics Credit Hours: 3 hrs
- PSY 731 - Prepracticum in Psychotherapy Credit Hours: 1 hr
- PSY 751 - Psychotherapy Credit Hours: 3 hrs

**Practicum: 4 hours**
- PSY 683 - Field Practicum with Seminar Credit Hours: 2 hrs each
Elective Courses: 11-16 hours

Nine to 16 hours selected from psychology courses within the department in consultation with the graduate adviser.

Cognate Courses: 0-6 hours

Zero to six hours selected from outside the psychology department in consultation with the graduate adviser.

Program Total: 45 hours

Master of Science in Psychology (General Experimental) (PSY)

Adviser: Silvia Von Kluge, PhD.
537 Mark Jefferson
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svonkluge@emich.edu

Objectives
The curriculum produces master’s-level psychologists with general knowledge of psychology in various content areas, research methodologies and theoretical formulations. Based on a “mentor model,” the program of study, progress, training and thesis are supervised by one or more faculty members. The general program does not prepare or qualify the student for a license in the state of Michigan as a clinical psychologist. It accommodates students preparing for a doctoral program or seeking career advancement in a basic or applied research area.

Admission Requirements
Priority consideration will be given to applicants who meet all of the requirements for graduate degree admission status listed below:

1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of approximately 3.0 or better on a 4.0 scale;
3. Have at least 20 hours in psychology, including statistics and experimental psychology;
4. Submit a transcript of GRE scores in which the sum of the scores for the verbal and quantitative sections is approximately 1,000 or higher;
5. Present two letters of recommendation from employers or others who can testify to the applicant’s suitability for the program of study; and
6. Submit a written account of their academic and professional history and professional goals.

Incomplete applications may not be considered. Credits earned under non-degree student status do not automatically apply to the requirements of the degree program.

Applications should be submitted to the Office of Admissions as stipulated in this catalog. A copy of the application should also be mailed directly to the Department of Psychology.

There are no admissions to degree programs in the spring and summer sessions. After the admission quota for the program has been met, students will be placed on a waiting list, which does not guarantee admission unless spaces become available.

Course Requirements

The master of science in general experimental psychology requires 30 graduate hours, with at least 24 in psychology. All students who apply should seek a faculty adviser, or mentor, to act as their sponsor. Students uncertain about a mentor choice, or applying from another campus and unfamiliar with the faculty, may be assigned a temporary mentor by the coordinator of the general program. The program is highly individualized and the mentor supervises the student’s training, research and master’s thesis. Should a student’s interests change, a new mentor may be selected with approval from both faculty members and the general experimental program coordinator.

Required Core Courses: 12 hours
• PSY 600 - Psychological Statistics I Credit Hours: 3 hrs
• PSY 620 - Learning Credit Hours: 3 hrs
• PSY 646 - Personality: Theory and Research Credit Hours: 3 hrs
• PSY 692 - Thesis Credit Hours: 3 hrs

Restricted Elective Courses: 6 hours

Two courses from the following:
• PSY 601 - Psychological Statistics II Credit Hours: 3 hrs
• PSY 605 - Research Design Credit Hours: 3 hrs
• PSY 623 - Experimental Analysis of Behavior Credit Hours: 3 hrs
• PSY 626 - Motivation and Emotion Credit Hours: 3 hrs
• PSY 629 - Physiological Psychology Credit Hours: 3 hrs
• PSY 632 - Sensation and Perception Credit Hours: 3 hrs
• PSY 635 - Cognitive Processes Credit Hours: 3 hrs
• PSY 637 - Social Psychology Credit Hours: 3 hrs
• PSY 640 - Developmental Psychology Credit Hours: 3 hrs
• PSY 651 - Prepracticum in Experimental Analysis of Behavior Credit Hours: 1 hr

Elective Courses: 6-12 hours

Six to 12 hours of psychology courses selected within the department in consultation with the graduate adviser.
Cognate Courses: 0-6 hours

Zero to six hours selected from outside the department in consultation with the graduate adviser.
Program Total: 30 hours
Sociology, Anthropology and Criminology Programs

Sociology, Anthropology and Criminology

Address: 712-A Pray-Harrold
Phone: 734.487.0012
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Web site: www.sac.emich.edu

The department offers graduate degree programs in sociology and in criminology and criminal justice. Programs in family specialty and in evaluation and applied research are also available within the sociology degree.

The M.A. programs in sociology prepare students for public and private sector careers, for doctoral study in sociology and related fields, and for post-secondary teaching. Students are required to select one of four programs; Sociology (SOC); Family Specialty (SOCF); Applied Research Specialty (SOC) or Schools, Society and Violence (SSV).

Sociology, Anthropology and Criminology Programs and Courses

Graduate Certificate

Graduate Certificate in Dementia (GRNC)

Adviser: Jo Campbell, MA
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The graduate certificate in dementia is a state-of-the-art program designed to accommodate the practical needs of a number of professional groups including nurses, social workers, psychologists, occupational and speech therapists, health care administrators and music and recreational therapists. It is also intended for graduate-level students who are interested in learning more about clinical and leadership issues in Alzheimer’s care and related illnesses. In order to provide greater flexibility for our students most of the classes are scheduled on Fridays and Saturdays from 9 a.m. to 4 p.m. with approximately four class meetings per semester.

This 18-hour multidisciplinary graduate certificate provides a theoretical framework and practical grounding in working with families and persons with dementia in the home, community-based programs and 24-hour care settings. The program focuses on the social psychology of dementia; how a person changes, communicates and compensates throughout the stages of dementia, and how we as caregivers can accommodate these changes. Major themes of this program center around ongoing assessment of the person and his/her environment and the development of supportive interventions. Students learn about the value of and how to develop meaningful trusting relationships with persons with dementia. Emphasis is on the process of sharing an experience together rather than focusing on the completion of tasks. In addition, students will explore the experiences of families from diverse racial, cultural and socioeconomic backgrounds, and interventions for supporting them.
Students will be encouraged through a series of carefully structured exercises to explore their own biases and feelings about aging and dementia. Throughout the program students will have the opportunity to hear firsthand stories about coping with dementia from individuals recently diagnosed with early-stage dementia and their caregivers.

In addition, students will be challenged to advocate for a new and more humane approach to dementia care. The characteristics of what makes an effective dementia-care leader, the importance of defining a vision and strategies for recruiting, retaining, training and empowering staff will be examined in depth. Creating successful organizational change and documenting outcomes is also a major theme of this program.

Fieldwork Opportunities
A unique feature of this program is the field work experiences that have been integrated into most courses. Assignments are customized, enabling students from different disciplines to complete projects in their own work settings. The Alzheimer’s Education Program team makes on-site visits, when feasible, to see students’ work in progress and to offer concrete feedback and mentoring. The instructional team is committed to individualizing projects so that students can explore challenging issues in more depth in their own work settings. This hands-on approach to learning enables students to refine their clinical and leadership skills and to become more effective clinicians/administrators.

The Alzheimer’s Education Program has affiliations with several local clinical programs including Huron Woods, a residential dementia care program located on the campus of St. Joseph Mercy Hospital, the Alzheimer’s Association and The Silver Club, an adult day program designed specifically for persons with dementia.

Scholarships Opportunities
Several scholarships — the Edna Gates Scholarship in Dementia Care, the Mary Schroder Scholarship and the Sarah Graf Scholarship — are available to students enrolled in the Certificate Specializing in Dementia. Application is made by contacting the certificate coordinator, 734.487.8579. Awards are generally granted for the fall term.

Admission Requirements
Applicants must:
1. Have a baccalaureate from an accredited institution, with a minimum 2.5 GPA or 3.0 in the last half of the undergraduate program;
2. Meet the Graduate School admission requirements;
3. Submit a one-page personal statement describing their professional history and goals in dementia care; and
4. Have an interview with the certificate coordinator.

A student does not have to be enrolled in a graduate degree program. Please note that credit earned for the graduate certificate may count, subject to applicability, toward a graduate degree.

Certificate Requirements
The graduate certificate in gerontology specializing in dementia is awarded upon satisfactory completion of 18 hours. This includes four required core courses and four to six required elective courses. Students are also required to complete a 120-hour internship and enroll in a practicum seminar.

The minimum acceptable grade in each required course is a B (3.0). Students scoring less than a B may repeat the course once before being dismissed from the program.

Required Courses: 9 hours
- GERT 512 - Applied Psychosocial Aspects of Aging Credit Hours: 3 hrs
- GERT 518 - Innovations in Alzheimer’s Care Credit Hours: 2 hrs
- GERT 528 - Advanced Issues in Dementia Care Credit Hours: 2 hrs
- SWRK 553 - Ethnicity and Gender Issues Among the Aged Credit Hours: 2 hrs

Elective Courses: 6 hours

Six hours from the following:
- GERT 523 - Designing Programs for People with Dementia Credit Hours: 2 hrs
- GERT 524 - Families and Dementia Credit Hours: 2 hrs
- GERT 590 - Special Topics Credit Hours: 1 hr
- GERT 591 - Special Topics Credit Hours: 2 hrs
- GERT 592 - Special Topics Credit Hours: 3 hrs
- GERT 697 - Independent Study Credit Hours: 1 hr
- GERT 698 - Independent Study Credit Hours: 2 hrs
- GERT 699 - Independent Study Credit Hours: 3 hrs

Gerontology practicum: 2-3 hours

One course from the following:
- GERT 688 - Gerontology Practicum Credit Hours: 2 hrs
- GERT 689 - Gerontology Practicum Credit Hours: 3 hrs

Certificate Total: 17-18 hours

Undergraduate Courses for Graduate Credit: School of Social Work

These upper-division undergraduate courses may also be taken for graduate credit and applied on the department’s certificate or degree programs. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- GERT 417 - Work and Retirement Credit Hours: 2 hrs
- GERT 488 - Gerontology Practicum/Seminar Credit Hours: 2 hrs
- GERT 489 - Gerontology Practicum/Seminar Credit Hours: 3 hrs
- SWRK 413 - Women and Aging Credit Hours: 3 hrs
- SWRK 420 - Working with Ageing People Credit Hours: 3 hrs
- SWRK 431 - Substance Abuse Credit Hours: 3 hrs
- SWRK 435 - Group Work with Children and Families Credit Hours: 3 hrs
- SWRK 460 - The Law and Social Work with the Family Credit Hours: 3 hrs
- SWRK 463 - Social Work Practice with Legal Offenders Credit Hours: 3 hrs

**Graduate Certificate in Gerontology (GERT)**

Adviser: Kristine Ajrouch
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734.487.0012
kajrouch@emich.edu

**Program Advising**

The gerontology program is administered by the Department of Social Work through a coordinating committee of faculty from approximately 12 departments and programs throughout the campus. The 18-hour multidisciplinary graduate certificate is for students with a bachelor’s degree from an accredited institution of higher education, wishing to pursue specialized study in aging, short of a master’s degree. It is targeted to those working in the field of aging, seeking formal education in gerontology; persons considering a career change; and students wishing to learn about the aging process to enhance their own aging experience.

Although the certificate in gerontology does not require enrollment in a graduate degree program, it may be used as a cognate or concentration in other graduate programs, including social work, clinical behavioral psychology, women’s studies, dietetics, public administration, occupational therapy, leadership and counseling, sociology, the master of liberal studies in technology, the master’s degree in individualized studies and other master’s programs.

Most courses are offered in the evenings or on weekends. The program must be completed within three years. It is possible, however, to complete all require ments with in one year.
Admission Requirements
Applicants must:
1. Have a baccalaureate from an accredited institution, with a minimum 2.5 GPA;
2. Meet the Graduate School admission requirements;
3. Submit a 250-word description of their academic and professional history and their professional goals in gerontology; and
4. Have an interview with the gerontology program director. Students must be admitted to the graduate certificate program before enrolling in required course work.

Certificate Requirements

The graduate certificate in gerontology is awarded upon satisfactory completion of 18 hours. This includes four required courses, three or more electives and a practicum. Students are also required to complete a 120-hour internship and enroll into a practicum seminar. The minimum acceptable grade in each required course is 3.0 (B). Students scoring less than a B may repeat the course once before being dismissed from the program.

Required Courses: 12-13 hours

- BIO 570 - Biological Aspects of Aging Credit Hours: 2 hrs
- GERT 512 - Applied Psychosocial Aspects of Aging Credit Hours: 3 hrs
- SWRK 552 - Policy Issues and Older People Credit Hours: 3 hrs
- SWRK 553 - Ethnicity and Gender Issues Among the Aged Credit Hours: 2 hrs

One course from the following:

- GERT 688 - Gerontology Practicum Credit Hours: 2 hrs
- GERT 689 - Gerontology Practicum Credit Hours: 3 hrs

Elective Courses: 5-6 hours

Five to six hours from the following:

Additional applicable courses may be used in the elective area, with prior approval of the director of the program.

- COUN 573 - Counseling Older Persons Credit Hours: 2 hrs
- DTC 658 - Nutrition and Aging Credit Hours: 3 hrs
- GERT 417 - Work and Retirement Credit Hours: 2 hrs

*See footnote below

- GERT 509 - Older Adults and Chemical Dependency Credit Hours: 1 hour
- GERT 511 - Elders and Their Families Credit Hours: 2 hrs
- GERT 513 - Intergenerational Programs and Services Credit Hours: 2 hrs
- GERT 514 - Caregiving and the Elderly Credit Hours: 2 hrs
- GERT 515 - Sexuality and Aging Credit Hours: 1 hr
- GERT 516 - The Elderly and the Law Credit Hours: 1 hr
- GERT 517 - Developing Funding Proposals for Aging Programs Credit Hours: 2 hrs
- GERT 518 - Innovations in Alzheimer’s Care Credit Hours: 2 hrs
- GERT 523 - Designing Programs for People with Dementia Credit Hours: 2 hrs
- GERT 524 - Families and Dementia Credit Hours: 2 hrs
- GERT 528 - Advanced Issues in Dementia Care Credit Hours: 2 hrs
- GERT 530 - Assessment of Individuals with Dementia Credit Hours: 2 hrs
- GERT 532 - Aging Through the Eyes of the Old Credit Hours: 2 hrs
- GERT 590 - Special Topics Credit Hours: 1 hr
- GERT 591 - Special Topics Credit Hours: 2 hrs
- GERT 592 - Special Topics Credit Hours: 3 hrs
- GERT 697 - Independent Study Credit Hours: 1 hr
- GERT 698 - Independent Study Credit Hours: 2 hrs
- GERT 699 - Independent Study Credit Hours: 3 hrs
• IDE 503 - Physical Environments for Aging Credit Hours: 2 hrs
• OCTH 619 - Programming III Credit Hours: 6 hrs
• PSY 551 - Psychology of Death and Dying Credit Hours: 2 hrs
• SWRK 550 - Working with Aging People Credit Hours: 3 hrs
Certificate Total: 18 hours

Note:

Footnote:
Students may take one approved 400-level course toward the certificate if it is taken for graduate credit. (web site: www.emich.edu/gerontology)

Undergraduate Courses for Graduate Credit: School of Social Work

These upper-division undergraduate courses may also be taken for graduate credit and applied on the department’s certificate or degree programs. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• GERT 417 - Work and Retirement Credit Hours: 2 hrs
• GERT 488 - Gerontology Practicum/Seminar Credit Hours: 2 hrs
• GERT 489 - Gerontology Practicum/Seminar Credit Hours: 3 hrs
• SWRK 413 - Women and Aging Credit Hours: 3 hrs
• SWRK 420 - Working with Ageing People Credit Hours: 3 hrs
• SWRK 431 - Substance Abuse Credit Hours: 3 hrs
• SWRK 435 - Group Work with Children and Families Credit Hours: 3 hrs
• SWRK 460 - The Law and Social Work with the Family Credit Hours: 3 hrs
• SWRK 463 - Social Work Practice with Legal Offenders Credit Hours: 3 hrs

Master’s

Master of Arts in Criminology and Criminal Justice (CRM)

Adviser: Donna Killingbeck, PhD.
712M Pray Harrold
734.487.0012
dkillingb@emich.edu

Objectives
1. Attainment of advanced education for persons who wish to enter careers in post-secondary education.
2. Development of skills in research and in program planning and evaluation in criminology and criminal justice.
3. Strengthening of the professional qualifications of persons employed in the fields of criminal justice.
4. Preparation for doctoral study in a behavioral or social science.

The analytical and evaluative skills stressed by this program enable students to identify and assess the often conflicting objectives of criminal justice and investigate basic issues and practical problems in criminology and the administration of criminal justice.

Admission Requirements
Degree Admission
Applicants must:
1. Meet the Graduate School admission requirements;
2. Have at least a 3.0 under graduate GPA, and have completed the following courses or equivalent:
   CRM 300 Criminal Justice
   CRM 301 Criminology
   SOCL 250 Social Statistics I
   SOCL 304 Methods in Sociological Research

Note:
SOCL 341 Quantitative Methods of Social Research I and SOCL 342 Quantitative Methods of Social Research II can be substituted for SOCL 250 and SOCL 304. A grade of no less than a B is required.

Conditional Admission
Applicants who meet the GPA requirement but lack one or more required courses may be admitted conditionally with the permission of the program chair; course deficiencies should be completed prior to taking required graduate courses.

Degree Requirements
The M.A. in the criminology and criminal justice program requires either a thesis or two essays for the non-thesis option.

Option I: Thesis students must complete a thesis on a subject determined in consultation with their adviser, in light of their interests. The completed thesis must be approved by the department. Four hours of thesis credit are earned.

Option II: Non-thesis students must submit two essays dealing with methodological, substantive or theoretical issues in criminology and criminal justice. These may be based on papers completed in graduate courses, but must be of higher quality than usual term papers, meet departmental requirements and be approved by the department. No credit hours are earned for these essays.

Course Requirements
The M.A. in criminology and criminal justice requires the completion of 31 hours of course work to be distributed among required courses, program area courses, elective courses and cognate courses as follows:

Required Courses: 0-4 hours

Select from either option I or option II:
Option I:
- CRM 690 - Thesis Credit Hours: 1 hr
- CRM 691 - Thesis Credit Hours: 2 hrs
- CRM 692 - Thesis Credit Hours: 3 hrs

Option II:
- Non-thesis option (0 hrs)

Program Area: 21 hours
- CRM 610 - Theories of Criminal Behavior Credit Hours: 3 hrs
- CRM 611 - Sociology of Crime and Its Correction Credit Hours: 3 hrs
- SOCL 412 - Law and Society Credit Hours: 3 hrs
- SOCL 513 - Social Deviance Credit Hours: 3 hrs
- SOCL 647 - Contemporary Community Structure Credit Hours: 3 hrs
- SOCL 677 - Advanced Methods in Sociological Research Credit Hours: 3 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs

Elective and/or Cognate Courses: 6-10 hours

Six to 10 hours selected in consultation with the graduate adviser.

Program Total: 31 hours

Undergraduate Courses for Graduate Credit: Sociology, Anthropology, and Criminology
The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ANTH 437 - Kinship and Social Structure Credit Hours: 3 hrs
- ANTH 439 - Seminar in Anthropological Theory Credit Hours: 3 hrs
- ANTH 487 - Cooperative Education in Anthropology Credit Hours: 3 hrs
- CRM 412 - Law and Society Credit Hours: 3 hrs
- CRM 431 - Policing in Society Credit Hours: 3 hrs
- CRM 447 - Senior Seminar in Criminology Credit Hours: 3 hrs
- CRM 460 - Criminal Law II Credit Hours: 3 hrs
- CRM 488 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
- CRM 489 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
- SOCL 402 - Group Dynamics Credit Hours: 3 hrs
- SOCL 403 - Modern Sociological Theory Credit Hours: 3 hrs
- SOCL 405 - Senior Seminar in Sociology Credit Hours: 3 hrs
- SOCL 412 - Law and Society Credit Hours: 3 hrs
- SOCL 440 - Sociology of Technology Credit Hours: 3 hrs
- SOCL 448 - Collective Behavior Credit Hours: 3 hrs
- SOCL 450 - The Family Credit Hours: 3 hrs
- SOCL 451 - Sociology of Work and Occupations Credit Hours: 3 hrs
- SOCL 462 - Complex Organizations Credit Hours: 3 hrs
- SOCL 465 - Sociology of Revolution Credit Hours: 3 hrs
- SOCL 478 - Special Topics Credit Hours: 2 hrs
- SOCL 487 - Cooperative Education in Sociology Credit Hours: 3 hrs

Master of Arts in Schools, Society and Violence (SSV)

This interdisciplinary master’s degree is intended for students who want to pursue advanced studies in conflict, crime and cooperation in the school context and is offered through the Department of Sociology, Criminology and Anthropology and the Department of Teacher Education. Students will gain an understanding of theoretical concepts, methodological techniques and the application of substantive interdisciplinary knowledge, enabling them to analyze, understand and effectively intervene to reduce harmful relational and institutional practices in school settings. Essential dimensions of the program include a thesis or non-thesis requirement through which students demonstrate the ability to integrate and apply relevant knowledge to address a particular dimension of the problem of school violence.

Objectives
Program graduates will be able to demonstrate:
1. Through written and oral forms the ability to analyze complex problems associated with school violence;
2. An understanding of the larger social, historical, economic and ideological context producing violent social relations with in schools;
3. Competence in qualitative and quantitative research methods; and
4. The ability to create positive solutions to school violence.

Admission Requirements
Applicants must:
1. Comply with the Graduate School admission requirements;
2. Have at least a 2.7 undergraduate GPA;
3. Submit a letter of interest describing the applicant’s career goals and reasons for pursuing this master’s degree; and
4. Submit two letters of recommendation that address the applicant’s professional commitment, experience and potential.

Course Requirements

The M.A. in Schools, Society and Violence requires the completion of at least 31 credit hours of course work to be distributed among required program courses, concentration courses, elective courses and cognate courses as follows:

Core courses: Crime, Conflict and Cooperation: 17 hours

Foundation Requirements: 2 hours

- SOCL 694 - Seminar in Sociology Credit Hours: 2 hrs

Research Methods Requirements: 5 hours

- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs

Theoretical Course Requirements: 10 hours

- SOCL 508 - Social Psychology Credit Hours: 2 hrs
- SOCL 560 - Domestic Violence and Sexual Assault Credit Hours: 3 hrs
- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs
- SOFD 580 - Sociology of Education Credit Hours: 2 hrs

Substantive Focus: Discipline, Schooling and Social Control: 8-14 hours

Core Courses: 4 hours

- CURR 560 - School and Classroom Discipline Credit Hours: 2 hrs
- SOFD 541 - Field Studies in Education Credit Hours: 2 hrs

Restricted Elective Courses: 2-7 hours

Two to seven hours from the following:

- CRM 650 - Media, Crime and Justice Credit Hours: 3 hrs
- CRM 697 - Independent Study Credit Hours: 1 hr
- CRM 698 - Independent Study Credit Hours: 2 hrs
- CRM 699 - Independent Study Credit Hours: 3 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- SOCL 697 - Independent Study Credit Hours: 1 hr
- SOCL 698 - Independent Study Credit Hours: 2 hrs
- SOCL 699 - Independent Study Credit Hours: 3 hrs
- SOFD 535 - Multicultural and International Education Credit Hours: 2 hrs
- SOFD 581 - Gender and Education Credit Hours: 3 hrs
- SWRK 610 - Empowerment: Social Justice and Social Change Credit Hours: 2 hrs
- SWRK 656 - Crisis Intervention Credit Hours: 2 hrs

Elective Courses: 2-3 hours

Thesis/Non-Thesis Project: 0-4 hours

One option from the following:

Option I: Thesis

Four hours from the following:

- SOCL 690 - Thesis Credit Hours: 1 hr
- SOCL 691 - Thesis Credit Hours: 2 hrs
- SOCL 692 - Thesis Credit Hours: 3 hrs
- SOFD 690 - Thesis Credit Hours: 1 hr
- SOFD 691 - Thesis Credit Hours: 2 hrs
• SOFD 692 - Thesis Credit Hours: 3 hrs
Option II: Non-Thesis Project: 0 hours

Non-thesis students must submit two essays dealing with a methodological, theoretical and/or practical problem in power, crime, conflict and cooperation within the schools that reflects the interests of the student and readers.

Program Total: 31 hours

Undergraduate Courses for Graduate Credit: Sociology, Anthropology, and Criminology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• ANTH 437 - Kinship and Social Structure Credit Hours: 3 hrs
• ANTH 439 - Seminar in Anthropological Theory Credit Hours: 3 hrs
• ANTH 487 - Cooperative Education in Anthropology Credit Hours: 3 hrs
• CRM 412 - Law and Society Credit Hours: 3 hrs
• CRM 431 - Policing in Society Credit Hours: 3 hrs
• CRM 447 - Senior Seminar in Criminology Credit Hours: 3 hrs
• CRM 460 - Criminal Law II Credit Hours: 3 hrs
• CRM 488 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• CRM 489 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• SOCL 402 - Group Dynamics Credit Hours: 3 hrs
• SOCL 403 - Modern Sociological Theory Credit Hours: 3 hrs
• SOCL 405 - Senior Seminar in Sociology Credit Hours: 3 hrs
• SOCL 412 - Law and Society Credit Hours: 3 hrs
• SOCL 440 - Sociology of Technology Credit Hours: 3 hrs
• SOCL 448 - Collective Behavior Credit Hours: 3 hrs
• SOCL 450 - The Family Credit Hours: 3 hrs
• SOCL 451 - Sociology of Work and Occupations Credit Hours: 3 hrs
• SOCL 462 - Complex Organizations Credit Hours: 3 hrs
• SOCL 465 - Sociology of Revolution Credit Hours: 3 hrs
• SOCL 478 - Special Topics Credit Hours: 2 hrs
• SOCL 487 - Cooperative Education in Sociology Credit Hours: 3 hrs

Master of Arts in Sociology (SOC)

Adviser: Robert Orrange, PhD.
712 Pray Harrold
734.487.0012
rorrange@emich.edu

The Master of Arts in Sociology program provide the knowledge in theory and methodology needed to pursue a Ph.D. in sociology and related fields, to teach in post-secondary institutions, or to pursue a public or private sector career, by addressing the following goals:

1. To allow students to develop skills necessary to secure employment in sociology and related fields.
2. To equip students with advanced sociological training in theory and methods in preparation for the pursuit of doctoral degrees.
3. To equip students with advanced sociological education in preparation to teach in post-secondary institutions.
Admission Requirements

Degree Admission
Applicants must:
1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of at least 3.0; if the GPA is below 3.0, applicant should contact the graduate coordinator, who may request that they attain a score at the 60th percentile on the GRE. A GRE score is not required if the GPA is 3.0 or above;
3. Have completed the following prerequisite courses or their equivalent, having earned at least a “B” in the course*:
   - SOCL250 Social Statistics I
   - SOCL304 Methods in Sociological Research
   - SOCL403 Modern Sociological Theory

*Applicants lacking one or more of the three prerequisite courses listed above may be granted a conditional admission. Credit earned for these courses will not be applied to their degree credits.
4. Submit a two-to-three page personal statement, highlighting the manner in which past academic, employment, volunteer or other relevant personal experiences have shaped their interest in a master’s degree in sociology. The applicant should also discuss the manner in which this degree will enhance their future career plans; and
5. Submit two letters of reference, from either academic or employment sources.

Degree Requirements

Thesis Option: In addition to the coursework outlined below, thesis students must complete a thesis on a subject determined in consultation with their departmental thesis committee, as per Graduate School guidelines. The completed thesis must be approved by the student’s departmental thesis committee, as per departmental guidelines. Four thesis credit hours are earned.

Non-Thesis Option: In addition to the coursework outlined below, non-thesis students must submit two essays dealing with methodological, substantive or theoretical issues in sociology. These may be based on papers completed in graduate courses but must be of higher quality than usual term papers, must meet departmental requirements and be approved by their non-thesis essay committee. No credit hours are earned for these essays.

Course Requirements

The M.A. in sociology requires the completion of 31 hours of course work to be distributed among required courses, program courses, elective courses and cognate courses as follows:

Required Courses: 9-13 hours

- SOCL 630 - Advanced Social Statistics Credit Hours: 3 hrs
- SOCL 677 - Advanced Methods in Sociological Research Credit Hours: 3 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs

Select from either Option I or Option II:

Option I:

- SOCL 690 - Thesis Credit Hours: 1 hr
- SOCL 691 - Thesis Credit Hours: 2 hrs
- SOCL 692 - Thesis Credit Hours: 3 hrs

Option II:

- Non-thesis option (0 hrs)

Required Concentration Courses: 12 hours

- SOCL 503 - The Family as an Institution Credit Hours: 3 hrs
- SOCL 513 - Social Deviance Credit Hours: 3 hrs
• SOCL 640 - Advanced Sociological Theory Credit Hours: 3 hrs
• SOCL 647 - Contemporary Community Structure Credit Hours: 3 hrs

Elective Courses: 0-10 hours

Elective courses should be selected in consultation with the graduate coordinator. Any graduate-level course in sociology, criminology or anthropology (except for those counted as required courses) are eligible for elective credit. Approved 400-level undergraduate courses in sociology, anthropology or criminology may be used as well, upon consultation with and permission of the graduate coordinator.

Cognate Courses: 0-9 hours

Cognate courses taken through departments/disciplines other than sociology, anthropology or criminology constitute cognate credit. These choices should be made in consultation with the graduate coordinator.

Program Total: 31-34 hours

Undergraduate Courses for Graduate Credit: Sociology, Anthropology, and Criminology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• ANTH 437 - Kinship and Social Structure Credit Hours: 3 hrs
• ANTH 439 - Seminar in Anthropological Theory Credit Hours: 3 hrs
• ANTH 487 - Cooperative Education in Anthropology Credit Hours: 3 hrs
• CRM 412 - Law and Society Credit Hours: 3 hrs
• CRM 431 - Policing in Society Credit Hours: 3 hrs
• CRM 447 - Senior Seminar in Criminology Credit Hours: 3 hrs
• CRM 460 - Criminal Law II Credit Hours: 3 hrs
• CRM 488 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• CRM 489 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• SOCL 402 - Group Dynamics Credit Hours: 3 hrs
• SOCL 403 - Modern Sociological Theory Credit Hours: 3 hrs
• SOCL 405 - Senior Seminar in Sociology Credit Hours: 3 hrs
• SOCL 412 - Law and Society Credit Hours: 3 hrs
• SOCL 440 - Sociology of Technology Credit Hours: 3 hrs
• SOCL 448 - Collective Behavior Credit Hours: 3 hrs
• SOCL 450 - The Family Credit Hours: 3 hrs
• SOCL 451 - Sociology of Work and Occupations Credit Hours: 3 hrs
• SOCL 462 - Complex Organizations Credit Hours: 3 hrs
• SOCL 465 - Sociology of Revolution Credit Hours: 3 hrs
• SOCL 478 - Special Topics Credit Hours: 2 hrs
• SOCL 487 - Cooperative Education in Sociology Credit Hours: 3 hrs

**Master of Arts in Sociology - Applied Research Speciality (SOC)**

This specialty provides knowledge and skills in theory and general methodology, with specific emphasis on the evaluation of ongoing programs. It prepares students for responsible positions in applied areas of sociology by addressing the following goals:

1. Provide knowledge and skills needed for careers in evaluation and applied research.
2. Increase knowledge and skills for students already employed in fields of sociology, in the private and public sectors.
3. Prepare students to pursue a Ph.D. in sociology, or teach in post-secondary institutions.

Admission Requirements

Degree Admission
Applicants must:
1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of at least 3.0; if the GPA is below 3.0, applicant should contact the graduate coordinator, who may request that they attain a score at the 60th percentile on the GRE. A GRE score is not required if the GPA is 3.0 or above;
3. Have completed the following courses or their equivalent, having earned at least a “B” in the course*:

   - SOCL250 Social Statistics I
   - SOCL304 Methods in Sociological Research
   - SOCL403 Modern Sociological Theory

   *Applicants lacking one or more of the three prerequisite courses listed above may be granted a conditional admission. Credit earned for these courses will not be applied to their degree credits.

4. Submit a two-to-three page personal statement, highlighting the manner in which past academic, employment, volunteer or other relevant personal experiences have shaped their interest in a master’s degree in sociology. The applicant should also discuss the manner in which this degree will enhance their future career plans; and
5. Submit two letters of reference, from either academic or employment sources.

Degree Requirements

Thesis Option: In addition to the coursework outlined below, thesis students must complete a thesis on a subject determined in consultation with their departmental thesis committee, as per Graduate School guidelines. The completed thesis must be approved by the student’s departmental thesis committee, as per departmental guidelines. Four thesis credit hours are earned.

Non-Thesis Option: In addition to the coursework outlined below, non-thesis students must submit two essays dealing with methodological, substantive or theoretical issues in sociology. These may be based on papers completed in graduate courses but must be of higher quality than usual term papers, must meet departmental requirements and be approved by their non-thesis essay committee. No credit hours are earned for these essays.

Course Requirements

The M.A. in sociology-applied research specialty requires the completion of at least 31 hours of coursework to be distributed among required program courses, concentration courses, elective courses, and cognate courses as follows:

Required Courses: 9-13 hours
- SOCL 630 - Advanced Social Statistics Credit Hours: 3 hrs
- SOCL 677 - Advanced Methods in Sociological Research Credit Hours: 3 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs

Select from either Option I or Option II:

Option I:
- SOCL 690 - Thesis Credit Hours: 1 hr
- SOCL 691 - Thesis Credit Hours: 2 hrs
- SOCL 692 - Thesis Credit Hours: 3 hrs

Option II:
- Non-thesis option (0 hrs)
Required Concentration Courses: 16 hours

- SOCL 647 - Contemporary Community Structure Credit Hours: 3 hrs
- SOCL 662 - Supervised Field Experience Credit Hours: 2 hrs
- SOCL 695 - Program Evaluation Skills Development Seminar Credit Hours: 3 hrs

One course from the following:

- SOCL 640 - Advanced Sociological Theory Credit Hours: 3 hrs
- SOCL 643 - Organizations and Networks Credit Hours: 3 hrs

One course from the following:

- SOCL 504 - Demographic Analysis Credit Hours: 3 hrs
- SOCL 636 - Qualitative Analysis Credit Hours: 3 hrs
- SOCL 641 - Theory Construction and Verification Credit Hours: 3 hrs

Elective Courses: 0-10 hours

Elective courses should be selected in consultation with the graduate coordinator. Any graduate-level course in sociology, criminology or anthropology (except for those counted as required courses) are eligible for elective credit. Approved 400-level undergraduate courses in sociology, anthropology or criminology may be used as well, upon consultation with and permission of the graduate coordinator.

Cognate Courses: 0-9 hours

Graduate level courses taken through departments/disciplines other than sociology, anthropology or criminology constitute cognate credit. These choices should be made in consultation with the Graduate Coordinator.

Program Total: 31-34 hours

Note:

Footnote:
Two semesters (four credit hours) of supervised field experience, approved by graduate coordinator and department head to provide experience in either evaluation research or some aspects of applied sociology.

Undergraduate Courses for Graduate Credit: Sociology, Anthropology, and Criminology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ANTH 437 - Kinship and Social Structure Credit Hours: 3 hrs
- ANTH 439 - Seminar in Anthropological Theory Credit Hours: 3 hrs
- ANTH 487 - Cooperative Education in Anthropology Credit Hours: 3 hrs
- CRM 412 - Law and Society Credit Hours: 3 hrs
- CRM 431 - Policing in Society Credit Hours: 3 hrs
- CRM 447 - Senior Seminar in Criminology Credit Hours: 3 hrs
- CRM 460 - Criminal Law II Credit Hours: 3 hrs
- CRM 488 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
- CRM 489 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
- SOCL 402 - Group Dynamics Credit Hours: 3 hrs
- SOCL 403 - Modern Sociological Theory Credit Hours: 3 hrs
- SOCL 405 - Senior Seminar in Sociology Credit Hours: 3 hrs
- SOCL 412 - Law and Society Credit Hours: 3 hrs
- SOCL 440 - Sociology of Technology Credit Hours: 3 hrs
- SOCL 448 - Collective Behavior Credit Hours: 3 hrs
- SOCL 450 - The Family Credit Hours: 3 hrs
Master of Arts in Sociology - Family Specialty (SOCF)

This program provides knowledge and skills in theory and methodology, with specific emphasis on the family as a social institution. It prepares students for responsible positions in the public and private sectors by addressing the following goals:

1. Achievement of academic knowledge required to pursue the Ph.D. in sociology or teach at the community college level;
2. Increased knowledge and skills for students already employed in applied fields of sociology, especially in agencies working with families in social service agencies, schools, courts, hospitals or community education, within both public and private sectors; and
3. Preparation for careers in family sociology.

Admission Requirements

Degree Admission
Applicants must:

1. Meet the Graduate School admission requirements;
2. Have an undergraduate GPA of at least 3.0; if the GPA is below 3.0, applicant should contact the graduate coordinator, who may request that they attain a score at the 60th percentile on the GRE. A GRE score is not required if the GPA is 3.0 or above;
3. Have completed the following courses or their equivalent having earned at least a “B” in the course*:
   - SOCL250 Social Statistics I
   - SOCL304 Methods in Sociological Research
   - SOCL403 Modern Sociological Theory

   *Applicants lacking one or more of the three prerequisite courses listed above may be granted a conditional admission. Credit earned for these courses will not be applied to their degree credits.
4. Submit a two-to-three page personal statement, highlighting the manner in which past academic, employment, volunteer or other relevant personal experiences have shaped their interest in a master’s degree in sociology. The applicant should also discuss the manner in which this degree will enhance their future career plans; and
5. Submit two letters of reference, from either academic or employment sources.

Degree Requirements

Thesis Option: In addition to the coursework outlined below, thesis students must complete a thesis on a subject determined in consultation with their departmental thesis committee, as per Graduate School guidelines. The completed thesis must be approved by the student’s departmental thesis committee, as per departmental guidelines. Four thesis credit hours are earned.

Non-Thesis Option: In addition to the coursework outlined below, non-thesis students must submit two essays dealing with methodological, substantive or theoretical issues in sociology. These may be based on papers completed in graduate courses but must be of higher quality than usual term papers, must meet departmental requirements and be approved by their non-thesis essay committee. No credit hours are earned for these essays.

Course Requirements

The M.A. in sociology-family specialty requires the completion of 31 hours of course work to be distributed among required program courses, concentration courses, elective courses and cognate courses as follows:
Required Courses: 9-13 hours

- SOCL 630 - Advanced Social Statistics Credit Hours: 3 hrs
- SOCL 677 - Advanced Methods in Sociological Research Credit Hours: 3 hrs
- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs

Select from either Option I or Option II:

Option I:

- SOCL 690 - Thesis Credit Hours: 1 hr
- SOCL 691 - Thesis Credit Hours: 2 hrs
- SOCL 692 - Thesis Credit Hours: 3 hrs

Option II:

- Non-thesis option (0 hrs)

Required Concentration Courses: 14 hours

- SOCL 503 - The Family as an Institution Credit Hours: 3 hrs
- SOCL 646 - Research in Family Interaction Credit Hours: 3 hrs
- SOCL 662 - Supervised Field Experience Credit Hours: 2 hrs

One course from the following:

- SOCL 513 - Social Deviance Credit Hours: 3 hrs
- SOCL 643 - Organizations and Networks Credit Hours: 3 hrs

One course from the following:

- SOCL 640 - Advanced Sociological Theory Credit Hours: 3 hrs
- SOCL 643 - Organizations and Networks Credit Hours: 3 hrs

Elective Courses: 0-10 hours

Elective courses should be selected in consultation with the graduate coordinator. Any graduate-level course in sociology, criminology or anthropology (except for those counted as required courses) are eligible for elective credit. Approved 400-level undergraduate courses in sociology, anthropology or criminology may be used as well, upon consultation with and permission of the graduate coordinator.

Cognate Courses: 0-9 hours

Graduate level courses taken through departments/disciplines other than sociology, anthropology or criminology constitute cognate credit. These choices should be made in consultation with the graduate coordinator.

Program Total: 31-34 hours

Undergraduate Courses for Graduate Credit: Sociology, Anthropology, and Criminology

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- ANTH 437 - Kinship and Social Structure Credit Hours: 3 hrs
- ANTH 439 - Seminar in Anthropological Theory Credit Hours: 3 hrs
- ANTH 487 - Cooperative Education in Anthropology Credit Hours: 3 hrs
- CRM 412 - Law and Society Credit Hours: 3 hrs
- CRM 431 - Policing in Society Credit Hours: 3 hrs
- CRM 447 - Senior Seminar in Criminology Credit Hours: 3 hrs
- CRM 460 - Criminal Law II Credit Hours: 3 hrs
• CRM 488 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• CRM 489 - Field Internship in Criminology and Criminal Justice Credit Hours: 3 hrs
• SOCL 402 - Group Dynamics Credit Hours: 3 hrs
• SOCL 403 - Modern Sociological Theory Credit Hours: 3 hrs
• SOCL 405 - Senior Seminar in Sociology Credit Hours: 3 hrs
• SOCL 412 - Law and Society Credit Hours: 3 hrs
• SOCL 440 - Sociology of Technology Credit Hours: 3 hrs
• SOCL 448 - Collective Behavior Credit Hours: 3 hrs
• SOCL 450 - The Family Credit Hours: 3 hrs
• SOCL 451 - Sociology of Work and Occupations Credit Hours: 3 hrs
• SOCL 462 - Complex Organizations Credit Hours: 3 hrs
• SOCL 465 - Sociology of Revolution Credit Hours: 3 hrs
• SOCL 478 - Special Topics Credit Hours: 2 hrs
• SOCL 487 - Cooperative Education in Sociology Credit Hours: 3 hrs
Women's and Gender Studies Programs

Women’s and Gender Studies

Address: 714 Pray-Harrold
Phone: 734.487.1177
Web site: http://www.emich.edu/wstudies/

Women's and Gender Studies Programs and Courses

Master's

Master of Arts in Women and Gender Studies (WGST)

Adviser: Kate Mehuron, PhD.
714 Pray Harrold
734.487.1177
kate.mehuron@emich.edu

Objectives
This degree explores the conceptual, analytical and practical aspects of women and gender in a global context. The interdisciplinary nature of the women's and gender studies program allows students, in consultation with the graduate adviser, to create tailored programs of study designed to meet their goals. The program draws upon a range of courses in the Colleges of Arts and Sciences, Business, Education, Health and Human Services and Technology. This highly flexible program fosters scholarly debate and develops research skills for students seeking employment in business, industry, government or the nonprofit sector. Persons already employed will find the program useful to their professional advancement.

Admission Requirements

Graduate admission requirements:
1. A baccalaureate in any field.
2. Prior completion of at least two courses with substantial content on women and/or gender and a grade of B or better.
3. A 2.75 undergraduate GPA overall, a 3.0 in the last-half cumulative undergraduate GPA, or a minimum 3.0 in graduate course work previously taken. Please comment on any grades that are not within this range.
4. The applicant must write and submit a two-three page (double spaced) personal statement. The personal statement must be written in such a way as to demonstrate graduate-level writing proficiency and must include the following elements:
   1. an explanation of your academic goals: specifically, areas of the field of WGST that you find particularly appealing; professors at EMU with who you would like to work and why: research questions about the field of WGST and the role of women in society that you hope to pursue in the course of your graduate study;
   2. an explanation of your professional goals and the ways in which your WGST graduate degree will help you attain these goals;
   3. a discussion of any prior professional and/or community-based experience related to women and/or gender and how that informs your understanding of the field of women's and gender studies;
4. and an explanation of how previous course work related to women and/or gender shaped your desire to pursue further study. What particular courses and writers have influenced you?

5. Two letters of recommendation from former professors addressing the candidate’s preparation and ability to successfully complete graduate work.

6. For students whose first language is not English, demonstrated English Language proficiency as shown by official test scores on the International English Language Testing System. For the Test of English as a Foreign Language (TOEFL), students need a 90-91 on the IBT, a 233 on the CBT, or a 577 on the PBT, or they need a score of 80 on the Michigan English Language Assessment Battery (MELAB).

**Conditional Admission**

Students not meeting regular admission requirements may be admitted on a conditional basis with the approval of the program director.

**Non-Degree Admissions**

Students not meeting the GPA requirement may be granted non-degree admission with the permission of the WGST program director and the Graduate School.

**Degree Requirements**

Students will develop competencies through core requirements, restricted electives and complementary concentrations.

**Core Courses:** 12 hours

Students should consult the director and/or adviser for other approved women’s and gender studies courses offered each semester. The M.A. in women’s and gender studies is distributed among core courses, restricted elective courses and complimentary concentration courses as follows:

**Required Courses:** 6 hours

- WGST 550 - Feminist Thought Credit Hours: 3 hrs
- WGST 608 - Colloquium: Research on Women’s Issues Credit Hours: 3 hrs

Six hours from one of the three options:

**Option I**

- WGST 686 - Practicum Credit Hours: 1 hr
- WGST 687 - Practicum Credit Hours: 2 hrs
- WGST 688 - Practicum Credit Hours: 3 hrs
- WGST 689 - Practicum Credit Hours: 4 hrs

**Option II**

- WGST 690 - Thesis Credit Hours: 1 hr
- WGST 691 - Thesis Credit Hours: 2 hrs
- WGST 692 - Thesis Credit Hours: 3 hrs

**Option III**

- WGST 694 - Final Project Credit Hours: 1 hr
- WGST 695 - Final Project Credit Hours: 2 hrs
- WGST 696 - Final Project Credit Hours: 3 hrs

**Restricted Elective Courses:** 6 hours

*Select six hours from the following courses (others by permission):*

- ANTH 522 - Globalization: Race/Ethnicity, Class and Gender Credit Hours: 3 hrs
- CRM 560 - Domestic Violence and Sexual Assault Credit Hours: 3 hrs
- ECON 527 - Women and the Economy in Comparative Perspective Credit Hours: 3 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- HIST 521 - Studies in the History of Women in Europe Credit Hours: 3 hrs
- HIST 525 - Technology, Social Change and the Role of Women Credit Hours: 3 hrs
- HLED 565 - Women’s Health Credit Hours: 3 hrs
- PSY 542 - Women and Mental Health Credit Hours: 2 hrs
- SOCL 515 - Sociology of Women Credit Hours: 3 hrs
- SOCL 522 - Globalization: Race/Ethnicity, Class and Gender Credit Hours: 3 hrs
- SOCL 560 - Domestic Violence and Sexual Assault Credit Hours: 3 hrs
- SOFD 570 - Women and Pedagogy: Life Histories Credit Hours: 3 hrs
- SOFD 581 - Gender and Education Credit Hours: 3 hrs
- SOFD 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs
- STS 521 - Women and Technology Credit Hours: 3 hrs
- STS 528 - Technology, Gender and Pop Culture Credit Hours: 3 hrs
- SWRK 562 - Practice with Lesbian, Gay, Bisexual and Transgender Persons Credit Hours: 3 hrs
- WGST 515 - Sociology of Women Credit Hours: 3 hrs
- WGST 521 - Women and Technology Credit Hours: 3 hrs
- WGST 522 - Globalization: Race/Ethnicity, Class and Gender Credit Hours: 3 hrs
- WGST 525 - Technology, Social Change and the Role of Women Credit Hours: 3 hrs
- WGST 526 - Topics in Feminist Philosophy Credit Hours: 3 hrs
- WGST 528 - Technology, Gender and Pop Culture Credit Hours: 3 hrs
- WGST 530 - Women in Film Credit Hours: 3 hrs
- WGST 542 - Women and Mental Health Credit Hours: 2 hrs
- WGST 560 - Domestic Violence and Sexual Assault Credit Hours: 3 hrs
- WGST 562 - Practice with Lesbian, Gay, Bisexual and Transgender Persons Credit Hours: 3 hrs
- WGST 575 - Theories of Sexuality Credit Hours: 3 hrs
- WGST 581 - Gender and Education Credit Hours: 3 hrs
- WGST 590 - Special Topics Credit Hours: 1 hr
- WGST 591 - Special Topics Credit Hours: 2 hrs
- WGST 592 - Special Topics Credit Hours: 3 hrs
- WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- WGST 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs
- WGST 697 - Independent Study Credit Hours: 1 hr
- WGST 698 - Independent Study Credit Hours: 2 hrs
- WGST 699 - Independent Study Credit Hours: 3 hrs

Complementary Concentration Courses: 12 hours

Students must select two or more complementary concentrations in other fields. A minimum of four hours is required in each of the complementary areas of study (12 hours total required). Students must consult with the women’s and gender studies director or the women’s and gender studies adviser for specific courses in each area that are approved for women and gender studies credit.

Possible complementary concentrations:

Communication, Media and Theatre Arts
Economics
Educational Leadership
Educational Psychology
English Language and Literature
Gerontology
Counseling
History
Technology Studies/Nonprofit Management
Management
Philosophy
Political Science
Psychology
Social Foundations of Education
Social Work
Sociology

Program Total: 30 hours
Undergraduate Courses for Graduate Credit: Women's and Gender Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- LITR 443 - Women in Literature Credit Hours: 3 hrs
- PHIL 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
- SWRK 413 - Women and Aging Credit Hours: 3 hrs
- WGST 413 - Women and Aging Credit Hours: 3 hrs
- WGST 426 - Topics in Gender and Philosophy Credit Hours: 3 hrs
- WGST 443 - Women in Literature Credit Hours: 3 hrs
World Languages Programs

World Languages

Address: 219 Alexander
Phone: 734.487.0130
E-mail: rweston3@emich.edu
Web site: www.emich.edu/public/foreignlanguages/fl_welcome.html

The department offers four master of arts degrees:

1. The master of arts in Spanish (bilingual-bicultural education)
2. The master of arts in language and international trade
3. The master of arts in teaching English to speakers of other languages (TESOL)
4. The master of arts in foreign languages with programs in French, German and Spanish

The department also offers graduate certificates in TESOL, in Hispanic language and cultures, in German for business practices and in Japanese for business practices. In addition, candidates for the master of arts in secondary education or the master of arts in individualized studies can earn concentrations in French, German or Spanish.

World Languages Programs and Courses

Endorsement

Bilingual Endorsement Program for Certified Teachers

In addition to completing the course requirements below, students must:

1. Demonstrate oral and written language proficiency, by examination, in both Spanish and English as measured by examination;
2. Possess or be eligible for a valid teaching certificate; and
3. Complete three days of collateral field experience for each required course, except seminar representing a total of 15 days of such experience.

Certificate Requirements

This certificate requires 18 hours of course work to be distributed as follows:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs
- FLAN 421 - History and Theory of Bilingual Education Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- BILN 622 - Teaching Hispanic Culture and Language Credit Hours: 3 hrs
- FLAN 695 - Seminar in Bilingual-Bicultural Education Credit Hours: 3 hrs
- SPNH 682 - U.S. Dialects of Spanish Credit Hours: 3 hrs

Program Total: 18 hours

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.
If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
- SPNH 465 - Modern Novel Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

- FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

- LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs
Graduate Certificate

Graduate Certificate in German for Business Practices
(GRNB)

The graduate certificate program in German for business practices is designed for candidates who want to acquire professional proficiency in the idiom of business German and sensitize themselves to German business culture. They will accomplish this through intensive practice in speaking and writing as well as through analysis of current cultural patterns in various business contexts.

Admission Requirements
1. Candidates must hold an undergraduate major or minor in German, with an overall grade point average of 2.75 and a grade point average of 3.0 in courses taken in German.
2. Candidates must complete an oral proficiency interview in German with a rating of “advanced.” This is a 30-minute interview in German during which the candidate must demonstrate the ability to satisfy routine social situations and limited work requirements.
3. Conditional admission may be granted to candidates evidencing deficiencies in German proficiency. Such candidates must successfully complete deficiency courses chosen in consultation with the German faculty (may not include any of the above courses).

Required Courses: 6 hours
- GERN 646 - German Business Practices Credit Hours: 3 hrs
- GERN 647 - German Business Practices Credit Hours: 3 hrs

Elective Courses: 6 hours

Six hours from the following:
- GERN 610 - Intensive German in Europe Credit Hours: 6 hrs
- GERN 620 - Advanced German Syntax and Composition Credit Hours: 3 hrs
- GERN 621 - Advanced Conversation in German Credit Hours: 3 hrs

Program Total: 12 hours

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:
- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:
The graduate certificate program in Hispanic language and cultures is designed to assist candidates in attaining high levels of skill in the Spanish language and greater knowledge of Hispanic cultures. Successful students will gain greater competence in both oral and written expression as well as enhance their knowledge of selected facets of Hispanic life through analysis of current cultural patterns, including those of business and technology.

Required Courses: 10 hours

- SPNH 610 - Intensive Summer Program in Spanish Credit Hours: 6 hrs
- SPNH 620 - Spanish Grammar and Syntax Credit Hours: 2 hrs
Elective Courses: 3 hours

One course from the following:

- SPNH 646 - Spanish for Business Practices Credit Hours: 3 hrs
- SPNH 647 - Spanish for Business Practices Credit Hours: 3 hrs
- SPNH 682 - U.S. Dialects of Spanish Credit Hours: 3 hrs

Program Total: 13 hours

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
Graduate Certificate in Japanese for Business Practices (JPNB)

Japanese for Business Practices is an interdisciplinary graduate certificate program with the Department of World Languages and the College of Business. This 12 credit hour curriculum is designed to prepare students to communicate effectively by guiding students to the acquisition of Advanced Low Level (using ACTFL proficiency scales) or a Japanese language proficiency in various Japanese business situations and also gain further knowledge on International Management.

This program is intended for those who wish to improve their Japanese language and culture knowledge, proficiency and familiarity with Japanese business practices. They can also enhance their knowledge of international management.

Admission Requirements

1. Applicants in this graduate certificate program must demonstrate at least Intermediate Low Level of Japanese proficiency using the ACTFL’s Oral Proficiency Interview or Level 4 of the Japanese Proficiency Test developed by the Japan Foundation or equivalent.
2. Conditional admission may be granted to candidates evidencing deficiencies in Japanese proficiency. Such candidates must successfully complete deficiency courses including, but not limited to, JPNE343 Japanese Composition, JPNE344 Japanese Conversation and JPNE444 Advanced Japanese Conversation.
3. Departmental permission.
4. Submit a statement of reasons for pursuing this certificate.
5. Meet the requirements for admission to the graduate school.

Required Courses: 12 hours

- JPNE 544 - Graduate Japanese Conversation Credit Hours: 3 hrs
- JPNE 546 - Japanese for Business Practices I Credit Hours: 3 hrs
- JPNE 547 - Japanese for Business Practices II Credit Hours: 3 hrs
- MGMT 550 - International Management: A Cultural Perspective Credit Hours: 3 hrs

Program Total: 12 hours

Graduate Certificate in Japanese Language Teaching (JLT)

Adviser: Hitomi Oketani, PhD
219 Alexander
734.487.0130
hoketani@emich.edu
The graduate certificate program in Japanese language teaching is designed to assist applicants in attaining the equivalent of an advanced level of proficiency in the Japanese language, as well as a broad knowledge of the geography and cultures of the regions where the Japanese language is spoken, and to improve overall teaching effectiveness.

**Admission Requirements**

1. Applicants in this graduate certificate program must demonstrate at least intermediate high level of Japanese proficiency using the ACTFL’s Oral Proficiency Interview or Level 3 of the Japanese Proficiency Test developed by the Japan Foundation, or equivalent.
2. Conditional admission may be granted to candidates evidencing deficiencies in Japanese proficiency. Such candidates must successfully complete deficiency courses including, but not limited to, JPNE344 Japanese Conversation, JPNE343 Japanese Composition and JPNE444 Advanced Japanese Conversation.
3. Submit a copy of Japanese Teaching Certification or Departmental permission.
4. Submit a statement of reasons for pursuing this certificate
5. Meet the requirements for admission to the Graduate School

This certificate requires 14 hours of course work to be distributed as follows:

**Required Courses: 2 hours**

- FLAN 611 - Theory and Methods of Modern Language Teaching Credit Hours: 3 hrs
- FLAN 613 - Using Technology in the Foreign Language Classroom Credit Hours: 3 hrs
- JPNE 544 - Graduate Japanese Conversation Credit Hours: 3 hrs
- JPNE 594 - Intensive Seminar in Japanese Studies Credit Hours: 3 hrs

**Elective Courses: 2 hours**

- One course from the following:
  - CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
  - CURR 552 - The Pedagogy of Group Learning Credit Hours: 2 hrs
  - CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
  - FLAN 540 - Cultural Issues in Teaching Languages Credit Hours: 2 hrs
  - FLAN 612 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
  - RDNG 506 - Storytelling Credit Hours: 3 hrs
  - SOFD 535 - Multicultural and International Education Credit Hours: 2 hrs
  - TSLN 501 - Theoretical Foundations of Second-Language Pedagogy Credit Hours: 3 hrs
  - TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs

Program Total: 14 hours

**Undergraduate Courses for Graduate Credit: World Languages**

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

**French Courses:**

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

**German Courses:**
GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
GERN 451 - Readings in German Credit Hours: 1 hr
GERN 452 - Readings in German Credit Hours: 2 hrs
GERN 456 - Technical German I Credit Hours: 3 hrs
GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
- SPNH 465 - Modern Novel Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

- FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

- LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs

**Graduate Certificate in Teaching English to Speakers of Other Languages**

This program is offered at Eastern Michigan University's center in Livonia.

**Objectives**

This program prepares teachers who are already certified to teach in public schools to teach English as a second language. The primary goal is to enable teachers to address more effectively the academic and social challenges of an increasingly diverse student population, including the growing number of English language learners, and to appreciate those students as resources for instruction and classroom management.

**Admission Requirements**

Applicants must:
1. Submit at least two letters of recommendation that attest to the applicant’s promise of success in working with speakers of other languages and in multicultural settings;
2. Submit a statement of reasons for pursuing this certificate;
3. Submit a Michigan (or other state) teaching certificate;
4. Submit proof of classroom teaching experience; and
5. Meet the requirements of the Graduate School.

Note:
There is no opportunity for conditional admission to this program for non-native speakers of English.

Required Courses: 22 hours

- FLAN 540 - Cultural Issues in Teaching Languages Credit Hours: 2 hrs
- TSLN 502 - A Pedagogical Grammar and Phonology of ESL Credit Hours: 4 hrs
- TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs
- TSLN 521 - Content-Based Instruction and Materials for English Language Learners Credit Hours: 2 hrs
- TSLN 525 - Second Language Acquisition for Classroom Teachers Credit Hours: 3 hrs
- TSLN 530 - TESOL Methods: Reading, Writing and Grammar Credit Hours: 2 hrs
- TSLN 531 - TESOL Materials: Reading, Writing and Grammar Credit Hours: 1 hr
- TSLN 532 - TESOL Methods: Listening, Speaking and Pronunciation Credit Hours: 2 hrs
- TSLN 533 - TESOL Materials: Listening, Speaking and Pronunciation Credit Hours: 1 hr
- TSLN 588 - Observation, Analysis and Practicum in ESL Classrooms Credit Hours: 3 hrs

Certificate Total: 22 hours

Exit requirement for TESOL Graduate Certificate and ESL Endorsement:

Students must have at least one year’s college study of a foreign language, or the equivalent as determined by the World Languages Department.

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
German Courses:

- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
- SPNH 465 - Modern Novel Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

- FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

- LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs

Master's

Master of Arts in Foreign Languages (French) (FRNH)

Adviser: Genevieve Peden, PhD.
349 Alexander
734.487.1498
gpeden@emich.edu

The goal of the master of arts in foreign language program is to bring candidates to a superior level of proficiency in the chosen foreign language as defined by the Interagency Language Roundtable/American Council on the Teaching of Foreign Languages (ILR/ACTFL) scale, as well as to provide a broad knowledge of the geography and cultures of the regions where the target language is spoken, and to improve overall teaching effectiveness.

Objectives

General objectives of the program include:

1. Development of superior-level skills in listening, speaking, reading and writing in the chosen foreign language;
2. Incorporation of current pedagogies into the candidates' personal teaching styles; and
3. Analysis of current cultural patterns, literary material and/or technical information.

**Admission Requirements**

1. Candidates must hold undergraduate majors or minors in the language of their specialization, with an overall undergraduate grade point average of 2.75 and a grade point average of 3.0 in courses in the target language.
2. Candidates must complete an oral proficiency interview in the language of their specialization with a rating of “Advanced.”
3. Conditional admission may be granted to candidates with deficiencies in target language proficiency. Such candidates must successfully complete deficiency courses including, but not limited to, FRNH443 Advanced French Grammar and Composition and FRNH444 Advanced French Conversation. Graduate credit will not be granted for these courses.
4. Applications will be reviewed by the faculty of the language area of specialization.

**Program Requirements**

Students in all programs must complete a cultural immersion experience of at least six weeks in a country where the target language is predominant. Students who believe they have already fulfilled this requirement may petition to have the requirement waived or reduced; if the petition is approved, the candidate may substitute up to six hours of restricted electives. Students may satisfy this requirement through the intensive immersion experience offered in their language program. Similar programs of study with corroborating documentation may be accepted upon approval of the faculty of the area of concentration. Students should select a study abroad program in consultation with a faculty adviser prior to enrollment in any such program.

Students must, in consultation with a faculty adviser, complete a culminating experience such as a master’s examination, a piece of data-based research, a thesis or an external oral proficiency exam such as the Certificate des Professions techniques et scientifiques de la Chambre de Commerce et d’Industrie de Paris, or Certificat or Diplome de francais scientifique et technique de la Chambre de Commerce et d’Industrie de Paris.

**Course Requirements**

The M.A. in foreign language-French requires 30 hours of course work to be distributed as follows:

**Required Courses: 18 hours**

- FRNH 523 - Contemporary French Scene (3 hrs)
- FRNH 610 - Intensive French Abroad Credit Hours: 6 hrs
- FRNH 620 - French Grammar and Syntax Credit Hours: 3 hrs
- FRNH 621 - Advanced Conversation in French Credit Hours: 3 hrs
- FRNH 692 - Research Paper Credit Hours: 3 hrs

**Restricted Elective Courses: 6 hours**

Six hours from the following:

- FLAN 611 - Theory and Methods of Modern Language Teaching Credit Hours: 3 hrs
- FLAN 612 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 613 - Using Technology in the Foreign Language Classroom Credit Hours: 3 hrs
- TSLN 501 - Theoretical Foundations of Second-Language Pedagogy Credit Hours: 3 hrs
- TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs

**Cognate Courses: 6 hours**

Six hours in a related content area (not in the Department of World Languages), selected in consultation with a faculty adviser.

Program Total: 30 hours

**Undergraduate Courses for Graduate Credit: World Languages**

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request
form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
- SPNH 465 - Modern Novel Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

- FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

- LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs
Master of Arts in Foreign Languages (German) (GERN)

Adviser: Genevieve Peden, PhD.
349 Alexander
734.487.1498
gpeden@emich.edu

The goal of the master of arts in foreign language program is to bring candidates to a superior level of proficiency in the chosen foreign language as defined by the ILR/ACTFL scale, as well as to provide a broad knowledge of the geography and cultures of the regions where the target language is spoken, and to improve overall teaching effectiveness.

Objectives

General objectives of the program include:

1. Development of superior-level skills in listening, speaking, reading and writing in the chosen foreign language;
2. Incorporation of current pedagogies into the candidates' personal teaching styles; and
3. Analysis of current cultural patterns, literary material and/or technical information.

Admission Requirements

1. Candidates must hold undergraduate majors or minors in the language of their specialization, with an overall undergraduate grade point average of 2.75 and a grade point average of 3.0 in courses in the target language.
2. Candidates must complete an oral proficiency interview in the language of their specialization with a rating of "advanced."
3. Conditional admission may be granted to candidates with deficiencies in target language proficiency. Such candidates must successfully complete deficiency courses including, but not limited to, GERN443 German Syntax and Advanced Composition and GERN444 Advanced German Conversation. Graduate credit will not be granted for these courses.
4. Applications will be reviewed by the faculty of the language area of specialization.

Program Requirements

Students in all programs must complete a cultural immersion experience of at least six week in a country where the target language is predominant. Students who believe they have already fulfilled this requirement may petition to have the requirement waived or reduced; if the petition is approved, the candidate may substitute up to six hours of restricted electives. Students may satisfy this requirement through the intensive immersion experience offered in their language program. Similar programs of study with corroborating documentation may be accepted upon approval of the faculty of the area of concentration. Students should select a study abroad program in consultation with a faculty adviser prior to enrollment in any such program.

Students must, in consultation with a faculty adviser, complete a culminating experience such as a master’s examination, a piece of databased research, a thesis or an external oral proficiency exam such as the Mittelstufen pruefung and Prufung Wirtschaftsdeutsch International.

Course Requirements

The M.A. in foreign language-German requires 30 to 33 hours of course work to be distributed as follows:

Required Courses: 18 hours

- GERN 610 - Intensive German in Europe Credit Hours: 6 hrs
- GERN 620 - Advanced German Syntax and Composition Credit Hours: 3 hrs
- GERN 621 - Advanced Conversation in German Credit Hours: 3 hrs

Six additional hours in 500- or 600-level German or any of the following 400-level German courses:

See footnote below
• GERN 466 - German for International Affairs (3 hrs)
• GERN 477/478/479 - Special Topics (1/2/3 hrs)
• GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
• GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
• GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
• GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
• GERN 451 - Readings in German Credit Hours: 1 hr
• GERN 452 - Readings in German Credit Hours: 2 hrs

Restricted Elective Courses: 6 hours

Six hours from the following:
• FLAN 611 - Theory and Methods of Modern Language Teaching Credit Hours: 3 hrs
• FLAN 612 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
• FLAN 613 - Using Technology in the Foreign Language Classroom Credit Hours: 3 hrs
• TSLN 501 - Theoretical Foundations of Second-Language Pedagogy Credit Hours: 3 hrs
• TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs

Cognate Courses: 6 hours

Six hours in a related content area (not in the Department of World Languages), selected in consultation with a faculty adviser.

Culminating Experience: 0-3 hours

Program Total: 30-33 hours

Note:

Footnote:
A maximum of nine hours of undergraduate course work may be permitted in the earning of any graduate degree.

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:
• FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
• FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
• FRNH 445 - French Phonetics Credit Hours: 3 hrs
• FRNH 446 - Business French I Credit Hours: 3 hrs
• FRNH 447 - Business French II Credit Hours: 3 hrs
• FRNH 451 - Readings in French Credit Hours: 1 hr
• FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:
• GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
• GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
• GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
• GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
• GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
• GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
• GERN 451 - Readings in German Credit Hours: 1 hr
• GERN 452 - Readings in German Credit Hours: 2 hrs
GERN 456 - Technical German I Credit Hours: 3 hrs
GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:
JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:
SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
SPNH 448 - Modern Drama Credit Hours: 3 hrs
SPNH 449 - Romanticism Credit Hours: 3 hrs
SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
SPNH 465 - Modern Novel Credit Hours: 3 hrs
SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:
FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:
LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:
TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs

Master of Arts in Foreign Languages (Spanish) (SPNH)

Adviser: Genevieve Peden, PhD.
349 Alexander
734.487.1498
gpeden@emich.edu

The goal of the master of arts in foreign language program is to bring candidates to a superior level of proficiency in the chosen foreign language as defined by the ILR/ACTFL scale, as well as to provide a broad knowledge of the geography and cultures of the regions where the target language is spoken, and to improve overall teaching effectiveness.

Objectives
General objectives of the program include:
1. Development of superior-level skills in listening, speaking, reading and writing in the chosen foreign language;
2. Incorporation of current pedagogies into the candidates’ personal teaching styles; and
3. Analysis of current cultural patterns, literary material and/or technical information.

Admission Requirements
1. Candidates must hold undergraduate majors or minors in the language of their specialization, with an overall undergraduate grade point average of 2.75 and a grade point average of 3.0 in courses in the target language.
2. Candidates must complete an oral proficiency interview in the language of their specialization with a rating of “advanced.”

3. Conditional admission may be granted to candidates with deficiencies in target language proficiency. Such candidates must successfully complete deficiency courses including, but not limited to, SPNH 443 Advanced Spanish Grammar and Composition and SPNH 444 Advanced Spanish Conversation and Composition. Graduate credit will not be granted for these courses.

4. Applications will be reviewed by the faculty of the language area of specialization.

Program Requirements
Students in all programs must complete a cultural immersion experience of at least six weeks in a country where the target language is predominant. Students who believe they have already fulfilled this requirement may petition to have the requirement waived or reduced; if the petition is approved, the candidate may substitute up to six hours of restricted electives. Students may satisfy this requirement through the intensive immersion experience offered in their language program. Similar programs of study with corroborating documentation may be accepted upon approval of the faculty of the area of concentration. Students should select a study abroad program in consultation with a faculty adviser prior to enrollment in any such program.

Students must, in consultation with a faculty adviser, complete a culminating experience such as a master’s examination, a piece of data-based research or a thesis.

Course Requirements:

The M.A. in foreign language — Spanish requires 30 hours of course work to be distributed as follows:

Required Courses: 18 hours

- **Five additional credit hours of graduate level Spanish**
- SPNH 610 - Intensive Summer Program in Spanish Credit Hours: 6 hrs
- SPNH 620 - Spanish Grammar and Syntax Credit Hours: 2 hrs
- SPNH 621 - Graduate Spanish Conversation Credit Hours: 2 hrs
- SPNH 692 - Research Project Credit Hours: 3 hrs

Restricted Elective Courses: 6 hours

Six hours from the following:

- FLAN 611 - Theory and Methods of Modern Language Teaching Credit Hours: 3 hrs
- FLAN 612 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 613 - Using Technology in the Foreign Language Classroom Credit Hours: 3 hrs
- TSLN 501 - Theoretical Foundations of Second-Language Pedagogy Credit Hours: 3 hrs
- TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs

Cognate Courses: 6 hours

Six hours in a related content area (not in the Department of World Languages), selected in consultation with a faculty adviser.

Culminating Experience Courses: 1-3 hours

Program Total: 31-33 hours

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:
- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
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- SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
- SPNH 465 - Modern Novel Credit Hours: 3 hrs
- SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
- SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

- FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
- FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

- LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

- TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs

**Master of Arts in Language and International Trade (LGIT)**

**Objectives**

Objectives of the program are to promote cultural awareness and sensitivity with reference to our own society as well
as to societies of other world regions and to provide the skills and knowledge necessary for competent performance in an international business environment.

**Admission Requirements**

**Degree Admission**

Applicants must:

1. Declare the foreign language to be used for the language area requirement on the Application for Graduate Admission (e.g., Language and International Trade — French). Native speakers of a language may not elect that language without permission of the language section concerned. (Students applying to the ESL section of the master of arts in language and international trade should be sure their completed applications reach the Office of Admissions five months prior to the first semester of their program.);
2. Possess a minimum overall undergraduate grade point average of 2.75;
3. Submit a statement of their reasons for pursuing this degree;
4. Have two of their former University professors complete departmental recommendation forms and forward them directly to the department; and
5. Meet the background requirements stated below:
   a. **Foreign Language**
      Non-native speakers of French, German or Spanish must possess at least a minor in that language with a minimum grade point average of 3.0, or the equivalent proficiency. Non-native speakers of English must possess a minimum score of 80 on the Michigan English Language Assessment Battery (MELAB), a minimum score on the Test of English as a Foreign Language (TOEFL), or a minimum score on the computerized versions. Students should see the EMU admissions website at www.emich.edu/admissions for required minimum scores.
   b. **Economics**
      A two-course sequence in macroeconomic theory and policy. A two-course sequence in microeconomic theory and policy. (Students not meeting the above requirements may be granted conditional admission and be required to complete either ECON201 and ECON301, or ECON501; and either ECON202 and ECON302, or ECON502. Students must achieve an overall grade point average of 3.0 [B] or better in deficiency courses.)
   c. **Business**
      A course in the principles of accounting. A course in basic computers in business.

*Note:*

*Students not meeting the above degree requirements may be granted conditional admission and be required to complete either ACC 240 and ACC 241, or ACC 501; and MATH 118 plus COSC 101 or IS 215, or IS 502. Students must achieve an overall grade point average of 3.0 (B) or better in deficiency courses.*

**Conditional Admission**

Conditional admission may be granted to students who do not meet the above admission requirements. These students will be required to take deficiency courses to meet these requirements; this work will be done in addition to regular program requirements. Students must achieve an overall grade point average of 3.0 (B) or better in deficiency courses.

**Program Requirements**

Students must complete a minimum of 10 hours in a foreign language, six hours in economics, 12 hours in business and a cooperative education assignment for three to six hours.

**Cooperative Education**

To complement their academic training and enhance their professional preparation and chances for future employment, all students are expected to complete a minimum 15-week cooperative education assignment in the public or private sector, provided an appropriate position can be found. U.S. citizens may undertake this assignment either in the United States or in a country where the language being studied is spoken, while ESL students may elect only the U.S. co-op. In all cases, students must satisfy the requirements of the co-op for which they are eligible.

**U.S. Co-op Placement**

To be eligible for this placement, a student must have achieved at least a 3.0 GPA and have completed at least 12 hours of graduate business and economics courses, as well as half of the foreign language requirements. Students meeting these requirements should make an appointment with the language and international trade co-op adviser at least six months prior to the semester in which the student wishes to begin the co-op assignment.

**Overseas Co-op Placement**

To be eligible for this placement, a student must have achieved at least a 3.25 GPA and have completed 18 hours of
graduate business and economics courses, as well as the foreign language requirement for the master of arts in language and international trade. The student must also pass an oral interview conducted by department faculty in the language being studied at least seven months before the date on which the student wishes to begin the international co-op assignment. Consult the language and international trade co-op adviser for further information.

Course Requirements

The M.A. in language and international trade requires 31-34 hours of course work to be distributed among required courses in foreign language, economics, business and cooperative education courses as follows:

Required Courses: 31 hours

Foreign Language: 10 hours

If fulfilling foreign language requirement with English, complete ESLN642 and ESLN648 (five hours each).

If fulfilling foreign language requirement with French German or Spanish, complete 10 hours, including courses FRNH/GERN/SPNH646/647 (three hours each), in the chosen language.

Economics: 6 hours

Other hours may be selected from among 500-level economics courses with the aid and approval of the language and international trade graduate adviser.

- ECON 508 - International Trade Credit Hours: 3 hrs
  (Prerequisites for this course are either ECON201 and ECON301; or ECON202 and ECON302; or ECON501 and ECON502.)

- ECON 509 - International Monetary Economics Credit Hours: 3 hrs

Business: 12 hours

Other hours are to be selected from 500-level business courses with the aid and approval of the language and international trade adviser. At least one of these must be a business course with an international focus.

- DS 501 - Introductory Probability and Statistics for Business Credit Hours: 3 hrs
  (Prerequisites for this course are MATH118/119.)

- MKTG 510 - Marketing Management Credit Hours: 3 hrs

Cooperative Education: 3-6 hours

- FLAN 688 - Internship in Language and International Trade Credit Hours: 3 hrs

Program Total: 31-34 hours

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
• FRNH 451 - Readings in French Credit Hours: 1 hr
• FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:
• GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
• GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
• GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
• GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
• GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
• GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
• GERN 451 - Readings in German Credit Hours: 1 hr
• GERN 452 - Readings in German Credit Hours: 2 hrs
• GERN 456 - Technical German I Credit Hours: 3 hrs
• GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:
• JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:
• SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
• SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
• SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
• SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
• SPNH 448 - Modern Drama Credit Hours: 3 hrs
• SPNH 449 - Romanticism Credit Hours: 3 hrs
• SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
• SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
• SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
• SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
• SPNH 457 - Scientific and Technical Spanish II Credit Hours: 3 hrs
• SPNH 465 - Modern Novel Credit Hours: 3 hrs
• SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
• SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
• SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:
• FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
• FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:
• LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:
• TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs

Master of Arts in Teaching English to Speakers of Other Languages (TSL)

Objectives
Objectives of the program are to graduate teachers who possess a knowledge of English perceived as a second/foreign language, a knowledge of foreign language teaching and learning strategies, practical experience in applying theoretical knowledge, an awareness of the realities of the multicultural classroom and a commitment to continued professional growth.
Admission Requirements
Degree Admission
Applicants must:
1. Satisfy Graduate School admission requirements;
2. Have at least one year’s college study of foreign language, or the equivalent as determined by the World Languages Department;
3. Submit at least two letters of recommendation. See the Teaching English to Speakers of Other Languages web site for the recommendation form.
4. Submit a statement of the applicant’s reasons for pursuing this degree; and
5. For regular admission, non-native speakers of English must submit either an official TOEFL score of 560/220/83 with a writing score of 6/24 or a MELAB score of at least 80, with a score of 93 on the composition subtest.

Conditional Admission
Conditional admission may be granted to students who do not meet the above admission requirements. These students will be required to take deficiency courses to meet these require ments, in addition to regular program requirements. The TESOL program reviews completed applications February 1st and April 1st for fall admission and October 15th for winter admission. Because of the sequencing of core courses, starting the program in September semester is recommended, especially for international students.

Course Requirements:
The M.A. in teaching English to speakers of other languages requires 32 hours of course work to be distributed among required courses, restricted elective courses and cognate courses as follows:

Required Courses: 20 hours
- TSLN 500 - Observation and Analysis of ESL Programs Credit Hours: 1 hr
- TSLN 501 - Theoretical Foundations of Second-Language Pedagogy Credit Hours: 3 hrs
- TSLN 502 - A Pedagogical Grammar and Phonology of ESL Credit Hours: 4 hrs
- TSLN 520 - Foreign Language Testing and Assessment Credit Hours: 2 hrs
- TSLN 530 - TESOL Methods: Reading, Writing and Grammar Credit Hours: 2 hrs
- TSLN 531 - TESOL Materials: Reading, Writing and Grammar Credit Hours: 1 hr
- TSLN 532 - TESOL Methods: Listening, Speaking and Pronunciation Credit Hours: 2 hrs
- TSLN 533 - TESOL Materials: Listening, Speaking and Pronunciation Credit Hours: 1 hr
- TSLN 688 - TESOL Practicum Credit Hours: 3 hrs
- TSLN 694 - Seminar Credit Hours: 2 hrs

Restricted Elective Course: 6 hours

Six hours selected in consultation with the graduate adviser.

Cognate Courses: 6 hours

Six hours of supportive or complementary courses from other departments should be selected with the approval of the graduate adviser. Select from the following recommended courses:
- LING 401 - Introduction to Linguistic Science Credit Hours: 3 hrs
  See footnote below
- LING 402 - Modern English Grammar Credit Hours: 3 hrs
  See footnote below
- LING 420 - Introduction to Phonetics and Phonology Credit Hours: 3 hrs
  See footnote below
- LING 425 - Introduction to Syntax Credit Hours: 3 hrs
  See footnote below
- LING 525 - Syntactic Analysis Credit Hours: 3 hrs
- LING 531 - Semantics: The Study of Meaning Credit Hours: 3 hrs
- LING 532 - Sociolinguistics Credit Hours: 3 hrs
- LING 533 - General Psycholinguistics Credit Hours: 3 hrs

See footnote below
LING 534 - Phonological Analysis Credit Hours: 3 hrs
LING 535 - Discourse Analysis Credit Hours: 3 hrs
Program Total 32 hours

Note:

Footnotes:
Before enrolling in approved 400-level courses for graduate credit, students must obtain the following: (a) recommendation of their adviser, and (b) a request form from the Graduate School. Not more than nine hours of approved 400-level courses can be used on a graduate program.

Undergraduate Courses for Graduate Credit: World Languages

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

French Courses:

- FRNH 443 - Advanced French Grammar and Composition Credit Hours: 3 hrs
- FRNH 444 - Advanced French Conversation Credit Hours: 3 hrs
- FRNH 445 - French Phonetics Credit Hours: 3 hrs
- FRNH 446 - Business French I Credit Hours: 3 hrs
- FRNH 447 - Business French II Credit Hours: 3 hrs
- FRNH 451 - Readings in French Credit Hours: 1 hr
- FRNH 452 - Readings in French Credit Hours: 2 hrs

German Courses:

- GERN 425 - German Literature from the Middle Ages to the Baroque Credit Hours: 3 hrs
- GERN 426 - German Literature from 1750-1850 Credit Hours: 3 hrs
- GERN 427 - German Literature from 1850-1945 Credit Hours: 3 hrs
- GERN 428 - German Literature and Film from 1945 to the Present Credit Hours: 3 hrs
- GERN 443 - German Syntax and Advanced Composition Credit Hours: 3 hrs
- GERN 444 - Advanced German Conversation Credit Hours: 3 hrs
- GERN 451 - Readings in German Credit Hours: 1 hr
- GERN 452 - Readings in German Credit Hours: 2 hrs
- GERN 456 - Technical German I Credit Hours: 3 hrs
- GERN 457 - Technical German II Credit Hours: 3 hrs

Japanese Courses:

- JPNE 494 - Seminar in Japanese Studies Credit Hours: 3 hrs

Spanish Courses:

- SPNH 401 - Advanced Readings in Spanish Literature Credit Hours: 3 hrs
- SPNH 402 - Advanced Readings in Spanish American Literature Credit Hours: 3 hrs
- SPNH 444 - Advanced Spanish Conversation and Composition Credit Hours: 3 hrs
- SPNH 445 - Spanish-American Prose Credit Hours: 3 hrs
- SPNH 448 - Modern Drama Credit Hours: 3 hrs
- SPNH 449 - Romanticism Credit Hours: 3 hrs
- SPNH 450 - Spanish-American Theatre Credit Hours: 3 hrs
- SPNH 454 - Modernism in Spanish America Credit Hours: 3 hrs
- SPNH 455 - The Generation of 1898 Credit Hours: 3 hrs
- SPNH 456 - Scientific and Technical Spanish I Credit Hours: 3 hrs
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• SPNH 465 - Modern Novel Credit Hours: 3 hrs
• SPNH 471 - Culture and Literature of the Hispanic Groups in the United States Credit Hours: 3 hrs
• SPNH 482 - Language of the Hispanic Groups in the United States Credit Hours: 3 hrs
• SPNH 492 - Senior Seminar in Spanish Credit Hours: 3 hrs

General Language and Bilingual-Bicultural Education Courses:

• FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades Credit Hours: 3 hrs
• FLAN 490 - Internship in Language and International Trade Credit Hours: 3 hrs

Language Courses:

• LNGE 425 - Second Language Acquisition Credit Hours: 3 hrs

TESOL Courses:

• TSLN 410 - TESOL Methodology: Content-Based Approaches Credit Hours: 3 hrs
College of Business

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Departments and Programs
- Accounting and Finance
- Computer Information Systems
- Management
- Marketing

Mission Statement

To support the economic development of southeast Michigan by preparing graduates to perform effectively in an “information age” business environment that is being shaped by a global economy and by helping business leaders understand and address the forces shaping their environments as they create and recreate business.

The primary focus of the college is on teaching. Faculty research is fundamentally applied in nature. Professional service is directed towards the needs of the region and the professional communities that sustain the faculty.

The College of Business is AACSB accredited and offers four graduate degree programs: master of business administration (MBA), designed to give students a broad understanding of the business function; master of science in accounting (MSA), designed to provide students an in-depth understanding of the theoretical and practical concepts of accounting; master of science in computer-based information systems (MSIS), designed to enable students to design, develop, implement and control computer-based information systems; and master of science in human resource/organizational development (MSHROD), designed to train students as human resource managers and organization development specialists. These programs are intended to provide the professional education needed in business, industry and public or government service positions. The college also offers graduate certificates in business and areas of specialization.

The time required to complete a business master’s degree program or certificate depends upon the undergraduate preparation of the student. Graduate courses in business are primarily offered in the evening (Monday-Thursday). To provide greater flexibility for our students, the College of Business also offers the required MBA courses on Saturdays.

The Gary M. Owen Building, home of the College of Business, opened in 1990 and provides multipurpose classrooms
and computer labs for students enrolled in business courses. Classrooms are multimedia capable as are the large lecture halls.

Further information is available by visiting www.cob.emich.edu.

**Graduate Degrees and Certificate Programs**

The college offers the following graduate degrees and graduate certificate programs in the various disciplines of business. Admission and degree requirements for each of the programs can be found in the departmental sections of this catalog.

**Business Administration**

MASTER OF BUSINESS ADMINISTRATION (General)

MASTER OF BUSINESS ADMINISTRATION in an area of specialization:

- E-Business
- Enterprise Business Intelligence
- Entrepreneurship
- Finance
- Human Resource Management
- Internal Auditing
- International Business
- Marketing Management
- Nonprofit Management
- Supply Chain Management

GRADUATE CERTIFICATE in Business Administration

GRADUATE CERTIFICATE in an area of specialization:

- Computer Information Systems
- E-Business
- Entrepreneurship
- Finance
- Human Resource Management
- International Business
- Marketing Management
- Organizational Development
- Supply Chain Management

**Accounting and Finance**

MASTER OF SCIENCE in Accounting

BACHELOR-MASTER’S in Accounting (150 hour program)

GRADUATE CERTIFICATE in Nonprofit Management

GRADUATE CERTIFICATE in Public Budget Management

**Computer Information Systems**

MASTER OF SCIENCE in Computer Information Systems

GRADUATE CERTIFICATE in Computer Information Systems

**Management**

PROFESSIONAL MASTER OF SCIENCE in Bioinformatics

MASTER OF SCIENCE in Human Resources and Organizational Development

GRADUATE CERTIFICATE in Public Personnel Management

GRADUATE CERTIFICATE in Bioinformatics
GRADUATE CERTIFICATE in Nonprofit Management Marketing
GRADUATE CERTIFICATE in Marketing Management
GRADUATE CERTIFICATE in Nonprofit Management
GRADUATE CERTIFICATE in Community Building

Graduate Programs in Business

Admission Requirements
The admission policies herein are for the College of Business. Applicants must also meet the requirements for admission established by the Graduate School.

Admission to graduate degree programs in the College of Business is limited to students showing promise of success by reason of their undergraduate GPA (overall or in the last half of the undergraduate study), and performance on the Graduate Management Admission Test.* Applicants with GMAT scores more than five years old should check with the coordinator of graduate business programs to determine if a new test score will need to be reported for admission consideration.

The college may admit candidates who have not yet taken the GMAT on a nondegree basis. Such candidates must meet the GPA required for the particular program, take foundation courses only and achieve the required GMAT score within one year of admission. This does not apply for international students on an F-1 student visa. The GMAT is not required for admission to the certificate program.

International students should also refer to the Graduate School section of this catalog for admission requirements. Applicants whose native language is not English must demonstrate proficiency in the English language by submitting scores from the Test of English as a Foreign Language (TOEFL). Please refer to general admissions requirements for the minimum scores needed.

Those with TOEFL or MELAB scores below Graduate School minimums must take a placement test administered by Eastern Michigan University World Languages Department and take ESL courses, as specified by that department, in their first semester of enrollment.

Note:
Visit www.mba.com for information regarding GMAT.

Foundation/Prerequisite Requirements
Each business master’s program has a required common body of knowledge that each student must complete before enrolling in core-level graduate courses. A series of 500-level foundation courses covers most common subjects. Introductory courses, open to all graduate students, do not count toward core-level requirements in any graduate business program.

Once admitted into a graduate business program, students lacking basic course work must take foundation courses first. These may be waived for students who have completed equivalent work with a C or better at an approved accredited undergraduate institution. Those students that have earned a BBA from an AACSB accredited institution may waive the entire foundation.

Upper-Level Core Requirements
Upper-level (515 or above) courses, both core and elective, comprise the 30 to 39 hours of advanced course work for the graduate degree. They are reserved for graduate business program students who have completed all foundation/prerequisite requirements and those admitted to upper-level graduate candidacy by the Graduate Business Programs Office.

Nonbusiness graduate students must have permission from the graduate business programs office to enroll in 600-level business courses.
Degree Requirements
Graduate business students must complete all foundation/prerequisite and upper-level core requirements for their specific program, with a combined GPA of at least 3.0 (B). They must also maintain a 3.0 GPA in required upper-level core courses, electives not included. Core-level courses completed satisfactorily (B or better) from seven to 10 years prior to graduation may be applied only if approved by petition. A maximum of six hours of core-level courses from other institutions may be transferred if they:
1. Are determined to be equivalent to the courses to be waived;
2. Were passed with a grade of B or better.

Dismissal from Program Policies
Graduate students with a GPA below 3.0 (B) may be dismissed from the program if, after two semesters of enrollment, they have not restored their GPA to 3.0 (B).

Graduate students may be dismissed from a graduate business program if they receive more than two grades below B-(2.7) in any of the required foundation and core courses. Should a student repeat a course, the repeated grade will be the grade of record.

Guest Status
Guest students who wish to take courses at EMU and then transfer them to another institution’s graduate program must meet the standards for degree admission and have permission to enroll in business courses.

Undergraduate Courses for Graduate Credit
The following course may be elected for graduate credit; its course description may be found in the undergraduate catalog. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in the following undergraduate course for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- MKTG 474 Promotion Strategy (3 hrs)
Accounting and Finance Programs

Accounting and Finance

Address: 406 Gary M. Owen Building
Phone: 734.487.3320
E-mail: dmielke@emich.edu
Web site: www.accfin.emich.edu

Accounting and Finance Programs and Courses

Combined

Bachelor's-Master's Degree in Accounting (B.B.A.-MSA)

This combined degree program prepares students for careers in public accounting, industry, and governmental and nonprofit entities. CPA candidates must have completed 150 hours of education before being admitted as members of the American Institute of Certified Public Accountants and to be licensed in most states.

Admission Requirements
Following are the minimal standards for admission to the combined B.B.A and MSA degree programs in accounting. Generally, each item should be satisfied, though the candidate's overall record is considered. Transfer credits and grades will be evaluated in terms of Eastern Michigan University equivalency.

Initial admission is dependent on:
1. Completion of 90 hours of undergraduate course work including College of Business requirements, General Education Requirements and ACC 340 Intermediate Accounting;
2. A cumulative GPA of 3.0 on a 4.0 scale;
3. The candidate’s written statement of personal goals.

Admission to the graduate level requires:
1. Completion of 120 hours of undergraduate course work including course content noted under initial admission above and the undergraduate components (i.e., required and restricted electives);
2. A GMAT score of 500 (must be taken during the fourth year, so that the candidate’s score is received before admission to the fifth year); and
3. A cumulative G.P.A. of 3.0 on a 4.0 scale.
4. Completed application and payment of fee to the Office of Admissions.

The candidate is encouraged to apply to the graduate program at the beginning of his/her senior year and take the Graduate Management Admission Test (GMAT) during that same year.

To inquire about the specific requirements and to develop the program of study, contact:

Graduate Business Programs
404 Gary M. Owen Building
Eastern Michigan University
Ypsilanti, MI 48197
734.487.4444

Accounting Information Systems (AIAC)
General Education Requirements: 40 hours

University Requirements: 9 hours

- ECON 201 - Principles of Macroeconomics Credit Hours: 3 hrs
- ECON 202 - Principles of Macroeconomics Credit Hours: 3 hrs
One course from the following:

- MATH 118 - Linear Models and Probability Credit Hours: 3 hrs
- MATH 122 - Elementary Linear Algebra Credit Hours: 3 hrs

Undergraduate Program Requirements: 84 hours

Business Core Courses: 36 hours

- ACC 240 - Principles of Financial Accounting Credit Hours: 3 hrs
- ACC 241 - Principles of Managerial Accounting Credit Hours: 3 hrs
- COB 200 - Introduction to Business Credit Hours: 3 hrs
- DS 265 - Business Statistics I Credit Hours: 3 hrs
- FIN 350 - Principles of Finance Credit Hours: 3 hrs
- IS 215 - End-User Computing Credit Hours: 3 hrs
- LAW 293 - Legal Environment of Business Credit Hours: 3 hrs
- MGMT 202 - Business Communication Credit Hours: 3 hrs
- MGMT 386 - Organizational Behavior and Theory Credit Hours: 3 hrs
- MGMT 490 - Business Policy Credit Hours: 3 hrs
- POM 374 - Introduction to Production/Operations Management Credit Hours: 3 hrs

Accounting Information Systems Core Courses: 33 hours

- ACC 296 - The Accounting Cycle and Profession Credit Hours: 3 hrs
- ACC 340 - Intermediate Accounting Credit Hours: 3 hrs
- ACC 342 - Managerial Cost Accounting Credit Hours: 3 hrs
- ACC 356 - Accounting Information Systems Credit Hours: 3 hrs
- IS 320 - Business Data Communications and Computer Networks Credit Hours: 3 hrs
- IS 380 - Introduction to Databases Credit Hours: 3 hrs
- IS 510 - Introduction to Object-Oriented Programming Credit Hours: 3 hrs
- ACC 548 - Information Systems Audit and Control Credit Hours: 3 hrs
One course from the following:

- ACC 344 - Principles of Taxation Credit Hours: 3 hrs
- ACC 544 - Federal Income Taxation Credit Hours: 3 hrs
One course from the following:

- IS 219 - File Processing and COBOL Programming Credit Hours: 3 hrs
- IS 247 - Introduction to Web Application Development Credit Hours: 3 hrs

Graduate Program Requirements: 24 hours

Required Accounting Courses: 9 hours

- ACC 540 - Corporate Financial Reporting Credit Hours: 3 hrs
- ACC 567 - Professional Auditing Credit Hours: 3 hrs
- ACC 696 - Accounting Theory, Research and Policy Credit Hours: 3 hrs

Restricted Elective Accounting Courses: 9 hours

- ACC 510 - Enterprise Systems Credit Hours: 3 hrs
- ACC 511 - Accounting for E-Commerce Credit Hours: 3 hrs
One course from the following:

- ACC 541 - Advanced Financial Accounting Credit Hours: 3 hrs
- ACC 546 - Public and Nonprofit Sector Accounting Credit Hours: 3 hrs
- ACC 560 - Fraud Examination Credit Hours: 3 hrs
- ACC 584 - Tax Research Methods, Practice and Problems Credit Hours: 3 hrs
- ACC 585 - Business Tax Planning Credit Hours: 3 hrs
- ACC 592 - Special Topics Credit Hours: 3 hrs
- ACC 642 - Strategic Cost Management Credit Hours: 3 hrs
- ACC 672 - Investment and Tax Financial Planning Credit Hours: 3 hrs
- ACC 675 - International Accounting and Taxation Credit Hours: 3 hrs
- ACC 681 - Special Topics Credit Hours: 3 hrs
- ACC 699 - Independent Study Credit Hours: 3 hrs

Restricted Non-Accounting Courses: 6 hours

Select six credit hours from any combination of 500- to 600- level COB, DS, FIN, IS, POM, MGMT, MKTG, LAW or SCM courses. Advanced adviser approval is required.

Program Total: 150 hours

Notes:

Students must have a 3.0 GPA and a 500 GMAT to be admitted to the graduate portion of the program.

*Students must be admitted to the graduate portion of the program before registering for courses in the lower section of this program of study. For ACC540, an exception requiring Department approval may be requested.

**Students planning on taking the CPA exam in Michigan must take ACC546

Accounting (ACAC)

General Education Requirements: 40 hours

Additional Requirements: 9 hours

- ECON 201 - Principles of Macroeconomics Credit Hours: 3 hrs
- ECON 202 - Principles of Macroeconomics Credit Hours: 3 hrs

One course from the following:

- MATH 118 - Linear Models and Probability Credit Hours: 3 hrs
- MATH 122 - Elementary Linear Algebra Credit Hours: 3 hrs

Undergraduate Program Requirements: 84 hours

Business Core Courses: 36 hours

- ACC 240 - Principles of Financial Accounting Credit Hours: 3 hrs
- ACC 241 - Principles of Managerial Accounting Credit Hours: 3 hrs
- COB 200 - Introduction to Business Credit Hours: 3 hrs
- DS 265 - Business Statistics I Credit Hours: 3 hrs
- FIN 350 - Principles of Finance Credit Hours: 3 hrs
- IS 215 - End-User Computing Credit Hours: 3 hrs
- LAW 293 - Legal Environment of Business Credit Hours: 3 hrs
- MGMT 202 - Business Communication Credit Hours: 3 hrs
- MGMT 386 - Organizational Behavior and Theory Credit Hours: 3 hrs
- MGMT 490 - Business Policy Credit Hours: 3 hrs
- MKTG 360 - Principles of Marketing Credit Hours: 3 hrs
- POM 374 - Introduction to Production/Operations Management Credit Hours: 3 hrs

Accounting Core Courses: 21 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 296</td>
<td>The Accounting Cycle and Profession</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 340</td>
<td>Intermediate Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 342</td>
<td>Managerial Cost Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 356</td>
<td>Accounting Information Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 496</td>
<td>Financial Management and Controllership</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 540</td>
<td>Corporate Financial Reporting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 544</td>
<td>Federal Income Taxation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 344</td>
<td>Principles of Taxation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Elective: 3 hours

Select one course from the following. If ACC344 is selected for the accounting core course requirement, restricted elective course must be from the 500-level:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 442</td>
<td>Advanced Cost Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 450</td>
<td>Internal Auditing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 475</td>
<td>International Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 479</td>
<td>Special Topics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 491</td>
<td>Accounting Honors Thesis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 499</td>
<td>Directed Studies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 541</td>
<td>Advanced Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 546</td>
<td>Public and Nonprofit Sector Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 548</td>
<td>Information Systems Audit and Control</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 585</td>
<td>Business Tax Planning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 592</td>
<td>Special Topics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

University Elective Courses: 17 hours

Graduate Program Requirements: 24 hours

Required Accounting Courses: 6 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 567</td>
<td>Professional Auditing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 696</td>
<td>Accounting Theory, Research and Policy</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Elective Accounting Courses: 12 hours

Twelve credit hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 510</td>
<td>Enterprise Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 511</td>
<td>Accounting for E-Commerce</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 541</td>
<td>Advanced Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 546</td>
<td>Public and Nonprofit Sector Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 548</td>
<td>Information Systems Audit and Control</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 560</td>
<td>Fraud Examination</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 584</td>
<td>Tax Research Methods, Practice and Problems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 585</td>
<td>Business Tax Planning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 592</td>
<td>Special Topics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 642</td>
<td>Strategic Cost Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 672</td>
<td>Investment and Tax Financial Planning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 675</td>
<td>International Accounting and Taxation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 681</td>
<td>Special Topics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACC 699</td>
<td>Independent Study</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Non-Accounting Courses: 6 hours

Select six credit hours from any combination of 500- to 600- level COB, DS, FIN, IS, POM, MGMT, MKTG, LAW or SCM courses

Program Total: 150 hours
Note:

Students must have a 3.0 GPA and a 500 GMAT to be admitted to the graduate portion of the program.
*Students must be admitted to the graduate portion of the program before registering for courses in the lower section of this program of study.
**Students planning on taking the CPA exam must take ACC546

Master's

Master of Science in Accounting (MSA) (ACC)

Adviser: Phil Lewis, PhD.
406 Owen
734.487.6817
COB.grad@emich.edu

The MSA program provides a balanced broad education and in-depth understanding of the theoretical and practical concepts of accounting. There are several areas of concentration available and students are given the opportunity to relate accounting topics to other disciplines, as they develop the broad base of knowledge necessary to create, use and audit accounting information systems. The MSA program meets American Institute of CPA’s recommendations and Michigan State Board of Accountancy requirements, if appropriate electives are chosen.

All programs of study and advising materials are available at www.accfin.emich.edu

Admission Requirements

Degree Admission

Complete and submit to the Office of Admissions all required documents and materials. Official transcripts sent to EMU directly from the institution are required for all institutions (graduate and undergraduate) attended. The following priority deadlines have been established for receipt of all application materials required for admission to a graduate program:

<table>
<thead>
<tr>
<th>Semester/Session</th>
<th>Domestic and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Feb. 1</td>
</tr>
<tr>
<td>Winter</td>
<td>Sept. 1</td>
</tr>
<tr>
<td>Spring</td>
<td>Feb. 1</td>
</tr>
<tr>
<td>Summer</td>
<td>Feb. 1</td>
</tr>
</tbody>
</table>

Please note applications will be accepted after the priority date, however course selection preferences will not be guaranteed.

Previous academic performance, written statement of personal goals and GMAT score are significant factors considered by the MSA director in the admission process. Generally, as a minimum, the applicant must have an overall undergraduate GPA of 3.0 (on a 4.0 scale) and a GMAT score of 500 or above.

Program Requirements
Program Design
Upon admission to the MSA program, each student must prepare a program of study. The program is reviewed with the student by MSA adviser to ascertain that it is appropriate given the student’s background and career goals. The program of study becomes the student’s degree requirement when signed by the student and the MSA adviser. Subsequent changes in course work must be approved by an MSA faculty adviser.

Course Requirements

Foundation/Prerequisite Courses: 18 hours

Students must complete course work in each of the following foundation areas unless they have satisfactorily completed the undergraduate equivalent.

- ACC 340 - Intermediate Accounting Credit Hours: 3 hrs
- ACC 342 - Managerial Cost Accounting Credit Hours: 3 hrs
- ACC 356 - Accounting Information Systems Credit Hours: 3 hrs
- ACC 501 - Accounting Principles Credit Hours: 3 hrs
- ECON 500 - Foundations of Economics Analysis Credit Hours: 3 hrs
- DS 265 - Business Statistics I Credit Hours: 3 hrs

Core Courses: 30 hours

The MSA program requires the completion of 30 hours of course work to be distributed among required core courses and restricted elective courses, as follows:

Required Core Courses: 12 hours

- ACC 540 - Corporate Financial Reporting Credit Hours: 3 hrs
- ACC 544 - Federal Income Taxation Credit Hours: 3 hrs
- ACC 567 - Professional Auditing Credit Hours: 3 hrs

One course from the following:

- ACC 656 - Accounting, Information Technology and Research Credit Hours: 3 hrs
- ACC 696 - Accounting Theory, Research and Policy Credit Hours: 3 hrs

Restricted Electives (tracks): 12 hours

See footnote two below

Accounting Information Systems:

- Any 500 or 600 level ACC course not previously taken (3 hrs)
- ACC 510 - Enterprise Systems Credit Hours: 3 hrs
- ACC 511 - Accounting for E-Commerce Credit Hours: 3 hrs
- ACC 548 - Information Systems Audit and Control Credit Hours: 3 hrs

Internal Auditing:

- Any 500 or 600 level ACC course not previously taken (3 hrs)
- ACC 548 - Information Systems Audit and Control Credit Hours: 3 hrs
- ACC 560 - Fraud Examination Credit Hours: 3 hrs
- ACC 642 - Strategic Cost Management Credit Hours: 3 hrs

Tax and Financial Planning:

- Any 500 or 600 level ACC course not previously taken (3 hrs)
- ACC 584 - Tax Research Methods, Practice and Problems Credit Hours: 3 hrs
- ACC 585 - Business Tax Planning Credit Hours: 3 hrs
- ACC 672 - Investment and Tax Financial Planning Credit Hours: 3 hrs

Financial and Professional Services:
Any 500 or 600 level ACC course not previously taken (3 hrs)
- ACC 511 - Accounting for E-Commerce Credit Hours: 3 hrs
- ACC 541 - Advanced Financial Accounting Credit Hours: 3 hrs
- ACC 546 - Public and Nonprofit Sector Accounting Credit Hours: 3 hrs
See footnote one below

Other Accounting Courses:
- ACC 590 - Special Topics Credit Hours: 1 hr
- ACC 591 - Special Topics Credit Hours: 2 hrs
- ACC 592 - Special Topics Credit Hours: 3 hrs
- ACC 675 - International Accounting and Taxation Credit Hours: 3 hrs
- ACC 679 - Special Topics Credit Hours: 1 hr
- ACC 680 - Special Topics Credit Hours: 2 hrs
- ACC 681 - Special Topics Credit Hours: 3 hrs
- ACC 697 - Independent Study Credit Hours: 1 hr
- ACC 698 - Independent Study Credit Hours: 2 hrs
- ACC 699 - Independent Study Credit Hours: 3 hrs

College of Business Electives (Non-ACC): 6 hours

Select six hours within the College of Business.
Program Total: 30 hours

Notes:

Students having equivalent courses may be required to substitute other courses in the areas of accounting, finance, information systems, management and marketing, as determined by the M.S.A. director/adviser.

Footnote One:
Students planning to take the CPA examination must elect ACC546 and satisfy the state’s general business requirement.

Footnote Two:
You do not have to choose a track.
Computer Information Systems Programs

Computer Information Systems

Address: 412 Gary M. Owen Building
Phone: 734.487.2454
Web site: www.cis.emich.edu

Computer Information Systems Programs and Courses

Graduate Certificate

Graduate Certificate in Computer Information Systems (IS)

Restricted Electives: 15 hours

Five courses from the following:

- IS 606 - Web Application Development Credit Hours: 3 hrs
- IS 610 - Advanced Programming Credit Hours: 3 hrs
- IS 614 - Systems Analysis and Design Credit Hours: 3 hrs
- IS 616 - Management Information Systems Resources Credit Hours: 3 hrs
- IS 620 - Data Communications and Networks Credit Hours: 3 hrs
- IS 622 - Information Systems Consulting Credit Hours: 3 hrs
- IS 624 - Web Servers and System Software Credit Hours: 3 hrs
- IS 625 - Information Systems Project Management Credit Hours: 3 hrs
- IS 632 - Global Dimensions of Information Technology Credit Hours: 3 hrs
- IS 645 - Database Management Systems Credit Hours: 3 hrs
- IS 650 - Enterprise Resource Planning Credit Hours: 3 hrs
- IS 660 - E-Business Application Development Credit Hours: 3 hrs
- IS 665 - Data Warehousing and Data Mining Credit Hours: 3 hrs

Certificate Total: 15 hours

Master's

Master of Science in Information Systems (IS)

Adviser: Imtiaz Ahmad, PhD.
412 Owen
734.487.2454
imtiaz.ahmad@emich.edu

The MSIS Program at Eastern Michigan University is aimed at preparing students in concepts, theory, and practices for designing, constructing, and maintaining information systems that support business processes. The knowledge and practical business applications development experiences that the students gain during their EMU MSIS studies prepare
them for professional and academic advancement. Learning experiences in the MSIS program expose the students to challenges in developing leading edge information systems with a sound understanding of how information technology should integrate with strategic approaches to business management.

**Admission Requirements**
Complete and submit to the Office of Admissions all required documents and materials. Official transcripts sent to EMU directly from the institution are required for all institutions (graduate and undergraduate) attended. Priority deadlines have been established for receipt of all application materials required for admission to a graduate program. See the website for the Office of Admissions.

Admission is granted to graduates of regionally accredited colleges and universities whose grades and GMAT or GRE scores indicate an aptitude for advanced study in computer information systems.

**Degree Admission**
Degree admission requires a GMAT score of 450 or higher or a GRE (verbal and quantitative) score of 900 or higher, and an undergraduate GPA of either 2.75 overall or 3.0 for the last half of undergraduate study.

**Conditional Admission**
Students may qualify for conditional admission with an index computed as GPA * 200 + GMAT score >= 950 or GPA * 400 + GRE score (verbal and quantitative) >= 1900.

*Foundation/Prerequisite Course: 15 hours*

*IS Foundation Courses: 9 hours*

- IS 502 - Business Information Systems Credit Hours: 3 hrs
- IS 510 - Introduction to Object-Oriented Programming Credit Hours: 3 hrs
- IS 520 - Hardware and Software Credit Hours: 3 hrs

*Business Foundation Courses: 6 hours*

- ACC 501 - Accounting Principles Credit Hours: 3 hrs
- FIN 502 - Financial Principles Credit Hours: 3 hrs
- MGMT 505 - Organizational Theory and Behavior and Business Communication Credit Hours: 3 hrs
  - or a course that has ACC and FIN combined

*Required Courses: 15 hours*

- IS 606 - Web Application Development Credit Hours: 3 hrs
- IS 614 - Systems Analysis and Design Credit Hours: 3 hrs
- IS 620 - Data Communications and Networks Credit Hours: 3 hrs
- IS 625 - Information Systems Project Management Credit Hours: 3 hrs
- IS 645 - Database Management Systems Credit Hours: 3 hrs

*Elective Courses: 12 hours*

*Four courses from the following:*

- IS 610 - Advanced Programming Credit Hours: 3 hrs
- IS 616 - Management Information Systems Resources Credit Hours: 3 hrs
- IS 622 - Information Systems Consulting Credit Hours: 3 hrs
- IS 624 - Web Servers and System Software Credit Hours: 3 hrs
- IS 632 - Global Dimensions of Information Technology Credit Hours: 3 hrs
- IS 650 - Enterprise Resource Planning Credit Hours: 3 hrs
- IS 660 - E-Business Application Development Credit Hours: 3 hrs
- IS 665 - Data Warehousing and Data Mining Credit Hours: 3 hrs

*Integration Courses: 3 hours*

*To be taken at the end of the program*
• IS 696 - Enterprise Information Systems Integration Credit Hours: 3 hrs
  Thesis Option: 6 hours

• IS 690 - Master’s Thesis in Information Systems Credit Hours: 1 hr
• IS 691 - Master’s Thesis in Information Systems Credit Hours: 2 hrs
• IS 692 - Master’s Thesis in Information Systems Credit Hours: 3 hrs

Program total: 45 hours
Management Programs

Management

Address: 466 Gary M. Owen Building
Phone: 734.487.3240
E-mail: fwagnerm@emich.edu
Web site: www.mgt.emich.edu

Management Programs and Courses

Master's

Master of Science in Human Resource Management and Organizational Development (HROD)

Adviser: Fraya Wagner-Marsh, DBA
Address: 466 Gary M. Owen Building
Phone: 734.487.3240
email: fwagnerm@emich.edu
website: www.mshrod.emich.edu

Objectives

1. To prepare professionals who understand and are able to plan, implement and manage change processes, whether in positions internal to an organization (managerial or staff support) or as an external consultant.
2. To prepare professionals who understand the need to match organizational needs with human resource needs and are able to implement appropriate systems related to structure, process and human resources.
3. To prepare professionals who understand and apply human resource and organizational development techniques in ways that lead to greater organizational effectiveness.
4. To prepare professionals who understand and apply human resource and organizational development techniques in ways that lead to greater organizational effectiveness.

Admission Requirements

Degree Admission
Criteria for degree admission include:

1. GPA Requirement:
   a. An overall undergraduate GPA of at least 2.75 (on a 4.0 scale); or
   b. A GPA of at least 3.0 for the last half of undergraduate study; or
   c. A GPA of at least 3.5 in a completed master’s degree program.
2. A GMAT score of 450 or higher or a GRE score of 1000 or higher for math and verbal.

Conditional Admission
Conditional admission may be granted to students who do not meet the above requirements. Such students must maintain a B (3.0) average in foundation courses and the first 12 hours of adviser-approved core courses. Students who meet the conditional requirements will be granted regular admission. Conditionally admitted students must have an adviser’s permission to enroll in courses.
Transfer Credits
Students could be approved to transfer a maximum of six credit hours from an accredited masters degree. For more details, check with the department.

Course Requirements

Foundation/prerequisite courses: 15 hours

Nine hours of graduate or undergraduate non-management courses spread across three business functional areas (marketing, law, economics, accounting, finance). One three-hour course must be either an accounting or a finance course. Students must also demonstrate a proficiency in using computer applications including Word, Power Point and Excel spreadsheets.

- DS 501 - Introductory Probability and Statistics for Business Credit Hours: 3 hrs
  or an undergraduate statistics course

Required courses: 18 hours

- MGMT 505 - Organizational Theory and Behavior and Business Communication Credit Hours: 3 hrs
- MGMT 509 - Strategic Human Resource Management Credit Hours: 3 hrs
- MGMT 602 - Theory and Techniques of Organizational Development Credit Hours: 3 hrs
- MGMT 610 - Diagnostic Techniques and Research Methods Credit Hours: 3 hrs
- MGMT 628 - Human Resource Development Credit Hours: 3 hrs

Three hours of practicum or thesis:

- MGMT 688 - Practicum in Human Resource Management/Organizational Development Credit Hours: 3 hrs
- MGMT 692 - Thesis in Organizational Development Credit Hours: 3 hrs

Elective Courses: 12 hours

Twelve hours from the following:

- Or other adviser-approved electives
  - LAW 540 - Employment Law Credit Hours: 3 hrs
  - MGMT 611 - HR and Technology Credit Hours: 3 hrs
  - MGMT 613 - Leadership in Business Organizations: Theory and Practice Credit Hours: 3 hrs
  - MGMT 615 - Organization Design and Strategy Credit Hours: 3 hrs
  - MGMT 616 - Negotiation and Influence Applications for Business Credit Hours: 3 hrs
  - MGMT 618 - Staffing Organizations Credit Hours: 3 hrs
  - MGMT 620 - Compensation Management Credit Hours: 3 hrs
  - MGMT 621 - Benefits Administration Credit Hours: 3 hrs
  - MGMT 622 - Current Issues in Human Resources Management Credit Hours: 3 hrs
  - MGMT 625 - Management in Unionized Settings Credit Hours: 3 hrs
  - MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs
  - MGMT 648 - Communication and Organizational Development Credit Hours: 3 hrs
  - MGMT 696 - Strategic Management Credit Hours: 3 hrs

Program Total: 30 hours

Notes:

Footnote One:
Students with an undergraduate course in organizational theory and behavior may be required to substitute an elective for MGMT 505.

Footnote Two:
Students with an undergraduate course in human resources management/personnel administration or equivalent may be required to substitute an elective for MGMT 509 Strategic Human Resource Management.
Marketing Programs

Marketing

Address: 469 Gary M. Owen Building
Phone: 734.487.3323
Email: abalazs@emich.edu
Web site: www.mkt.emich.edu

Marketing Programs and Courses
College of Education

Dean
Dr. Vernon C. Polite
310 John W. Porter Building
Phone: 734.487.1414

Associate Dean
Michael Bretting
310 John W. Porter Building
Phone: 734.487.1414

Departments and Programs
- Leadership and Counseling
- Special Education
- Teacher Education

Mission Statement

To create an exemplary educational environment to develop the intellectual curiosity, creativity, critical and reflective thinking, and problem-solving abilities of our students so that they may become ethical, productive, contributing participants and leaders in a democratic and diverse society.

For more than 150 years, the College of Education at EMU has played a major state and national role in the preparation of teachers, other school personnel and related professionals. For example, we were among the first institutions in the country to prepare physical education teachers and special education teachers.

Now we are, and have been for some years, the nation’s largest producer of professional education personnel. We offer programs at the bachelor's, master's, specialist's and doctoral degree levels.

Our programs have received a number of national recognitions. We are fully accredited by the National Council for the Accreditation of Teacher Education and approved by the Michigan Department of Education. In almost every instance where a program-specific national recognition exists, we hold this recognition at the highest level. Through the Office of Collaborative Education, we work with numerous school districts in a variety of school improvement activities.

Our teacher graduates are highly prized and are actively recruited by many out-of-state school districts. Our alumni hold many distinctions, including the Pulitzer Prize and National Teacher of the Year, and serve as presidents or executives of major national professional organizations.

Our initial teacher preparation programs are guided by the theme, “Caring professional educators for a diverse and democratic society.”

Our advanced professional educator programs are guided by the theme, “Inquiry, advocacy and leadership in education for a diverse and democratic society.”

Teacher Certification

Applicants with bachelor’s degrees who wish to pursue provisional teacher certification (first certificate) apply for admission as undergraduates. See the Undergraduate Catalog and admissions application for details. Applicants seeking a second or professional teacher certification, or teaching endorsements, apply for admission as nondegree graduate students.
Undergraduate credit used to satisfy teacher certification or endorsement requirements cannot be applied to a graduate degree. Most questions regarding teacher certification or endorsements should be directed to:

College of Education
Office of Academic Services
206 Porter Building
Eastern Michigan University
Ypsilanti, MI 48197
734.487.1416

In some unusual circumstances, information may be required from the state Department of Education office. In those cases, write to:

Michigan State Department of Education
Teacher Education and Certification Section
P.O. Box 30008
Lansing, MI 48909

The Administrative Rules Governing the Certification of Michigan Teachers require that applicants for certification apply no more than five years after credit requirements are met. Payment of the appropriate fee is required before the certificate will be issued. Consult the College of Education’s Office of Academic Services for more information.

Provisional Certification

Admission to the provisional certification program requires admission to the College of Education. The College of Education requires prospective students to attend a general advising session that outlines the admission procedures and requirements for attaining teacher certification. Subsequently, individual advising appointments may be scheduled for evaluation of undergraduate course work and the design of a program of study. General requirements for admission to post-baccalaureate teacher certification include the following:

a. Submission of the completed Undergraduate Admission Application, non-refundable application fee and all official undergraduate transcripts to the Office of Admissions;
b. The earned equivalent of a four-year, U.S. bachelor’s degree from an accredited college or University, with a minimum cumulative undergraduate GPA of 2.5 on a 4.0 scale;
c. Submission of official results from the Michigan Test of Teacher Certification (MTTC), with a minimum score of 220 on each section;
d. Completion of the Moral Turpitude statement on the College of Education application;
e. A personal statement;
f. A letter of recommendation;
g. A statement of financial responsibility for those who are or will be on an F-1 visa; and
h. Applicants whose native language is not English must demonstrate English language proficiency (see International Applicants).

The application and all supporting documents become the property of Eastern Michigan University and will not be returned to the applicant. Applicants are not admitted to Eastern Michigan University and the College of Education until they have been notified in writing by the Office of Admissions.

Graduates of Michigan Institutions
Candidates for teacher certification must successfully complete the professional studies courses in the teacher education program. Upon successful completion, Eastern Michigan University will recommend the student for certification. When some of the professional education courses have been completed at another institution, it may be advantageous to have that institution make the recommendation for certification while approving the remaining requirements being completed at Eastern Michigan University.

Graduates of Teacher Training Institutions in Other States
Persons who hold a current valid teaching certificate from another state may apply to the Michigan Department of Education for a Michigan provisional certificate. Persons who have completed at least 12 hours in an accredited out-of-state education program may apply to the Michigan Department of Education for an evaluation of their credentials to determine what courses are needed to qualify for a Michigan provisional certificate. The student then applies for admission and submits a copy of the plan of work prepared by the Michigan Department of Education with the application materials. Graduates who do not fit either of the above categories must be recommended for certification by a Michigan teacher-training institution. The basic minimum requirement is normally 30 credit hours of course work at Eastern Michigan University. Michigan Department of Education application forms are available from the College of Education’s Office of Academic Services, 206 Porter Building.

**Elementary Endorsement to a Secondary Certificate, or Secondary Endorsement to an Elementary Certificate**

To qualify for an additional provisional certificate, applicants must complete a minimum of 18 hours of credit following the first certificate. These hours must include the appropriate methods courses and three or four hours of student teaching (or proof of two years professional teaching experience at the appropriate level). A written plan of work will be provided by the College of Education, upon request.

**Additional Teaching Majors and/or Minors**

Majors require a minimum of 30 appropriate hours for a pure major or 36 hours for a group major. Minors require a minimum of 20 appropriate hours for a pure minor or 24 hours for a group minor. Students should contact Academic Advising for information about course requirements, and departmental approval may be required. A copy of the approved program of study must be filed with the Office of Records and Registration.

**Renewal of a Provisional Certificate**

Persons whose provisional certificate has expired without their having acquired three years of successful teaching experience may renew the certificate by completing 10 hours of approved course work after receiving the provisional certificate, as part of the 18-hour planned program for professional certification.

**Certification in Special Fields**

Those seeking certification in art education, physical education, industrial education, special education, music or reading should contact the College of Education’s Office of Academic Services for more information.

**Professional Certification**

Applicants seeking professional teaching certification apply as non-degree graduate students. They must have completed three years of successful teaching and 18 hours of credit, the majority of which must be from Eastern Michigan University, after the issuance of the Michigan provisional certificate. Contact the College of Education’s Office of Academic Services for more information.

Students in master’s degree programs may apply the first 18 hours of that program to this requirement. Therefore, it is strongly recommended that those seeking professional certification seek admission to a graduate degree program.

**Graduate Degrees and Certificate Programs**

The college offers the following graduate degrees and graduate certificate programs in the various disciplines of education. Admission and degree requirements for each of the programs can be found in the departmental sections of this catalog.

**Leadership and Counseling**

- **DOCTOR OF EDUCATION** in Educational Leadership
- **SPECIALIST IN ARTS** in Educational Leadership
- **MASTER OF ARTS** in Educational Leadership
- **GRADUATE CERTIFICATE** in Community College Leadership
- **MASTER OF ARTS** in School Counseling
- **MASTER OF ARTS** in College Counseling
- **MASTER OF ARTS** in Community Counseling
- **GRADUATE CERTIFICATE** in Helping Interventions in a Multicultural Society
- **POST-MASTERS CERTIFICATE** for School Counselor Licensure

**Special Education**

- **SPECIALIST OF ARTS** in Special Education
SPECIALIST OF ARTS in Special Education — Administration
SPECIALIST OF ARTS in Special Education — Curriculum Development/Assistive Technology

MASTER OF ARTS in Special Education

MASTER OF ARTS in Special Education — Emotional Impairment
MASTER OF ARTS in Special Education — Cognitive (mental) Impairment
MASTER OF ARTS in Special Education — Physical and Health Impairment
MASTER OF ARTS in Special Education — Visual Impairment
MASTER OF ARTS in Special Education — Hearing Impairment
MASTER OF ARTS in Special Education — General Special Education
MASTER OF ARTS in Learning Disabilities
MASTER OF ARTS in Speech/Language Pathology

Teacher Education
MASTER OF ARTS in Early Childhood Education
GRADUATE CERTIFICATE in Educational Assessment
MASTER OF ARTS in Educational Psychology

MASTER OF ARTS in Educational Psychology — Development and Personality
MASTER OF ARTS in Educational Psychology — Research and Evaluation

MASTER OF ARTS in Educational Media and Technology
GRADUATE CERTIFICATE in Educational Media and Technology
MASTER OF ARTS in Curriculum and Instruction

MASTER OF ARTS in Elementary Education
MASTER OF ARTS in Middle Level Education
MASTER OF ARTS in Secondary Education
MASTER OF ARTS in Common Learnings in Curriculum

MASTER OF ARTS in Reading
MASTER OF ARTS in Social Foundations
MASTER OF ARTS in Schools, Society and Violence

Post-Baccalaureate Certification Programs
This Post-Baccalaureate program, effective Fall 2002, is offered at the undergraduate level. For details, refer to the Eastern Michigan University Undergraduate Catalog.

The Continuing Certificate
State Administrative Rule 390.1132 provides, in part, that in order to be eligible for institutional recommendation for a continuing or professional certificate, the applicant must have earned 18 hours in a planned course of study. The planned course of study is determined in this way:

For physical education teachers
Students should consult their adviser to develop the planned program, which is based on previous experiences, individual goals, career objectives, GPA, deficiencies, and the like. The program of studies that is planned must be completed in order for the individual to receive the institution’s recommendation.

For special education teachers
The student must meet the requirements to pursue the M.A. degree and must be program-admitted. The student is then assigned an adviser. The endorsement requirements are rather prescriptive and are longer than 18 hours. See the Special Education section of this catalog for detailed requirements in each special education area.

For all other teachers
Those who wish to pursue both the credential and the M.A. are referred by the Department of Teacher Education to the
appropriate adviser in that department or, in some cases, another department in which the program is housed. Those who desire only the recommendation for the continuing certificate must consult with the Teacher Certification Office. Those who want to add an endorsement (e.g., adding an elementary endorsement to the secondary credential or vice versa, adding a middle school endorsement to the secondary credential, adding a reading endorsement or adding an early childhood endorsement) will be provided with a standard list of courses that must be completed in order to accomplish the objective.

**Continuing Certification**

The Michigan provisional teaching certificate earned in teacher preparation programs is good for six years. In order to maintain a valid teaching credential, teachers must continue their studies toward a professional certificate. A minimum of 10 credit hours must be earned during the first six years in order to renew a provisional certificate. The College of Education’s Office of Academic Services is responsible for assisting certified Michigan teachers in maintaining and updating their teaching credentials with the state of Michigan. The Office of Academic Services (206 Porter, 734.487.0275) can help licensed Michigan teachers renew a provisional certificate, add endorsements or apply for the professional certificate. The office is unable to process applications for certification outside Michigan.

Current teacher licensing information for each licensed teacher in Michigan can be found at [http://mdoe.state.mi.us/teachercert/](http://mdoe.state.mi.us/teachercert/)

**First Renewal Certificate Requirements (good for three years)**

1. Ten credit hours after the issuance of Michigan provisional certificate or a master’s degree in a field related to teaching from Eastern Michigan University. Coursework must support major/minor subject areas already existing on the certificate, or endorsement areas to be added to an existing certificate. (Six credits are required from Eastern Michigan University and four credits may be transferred if approved by the certification coordinator. No community college credits will be accepted.)
2. Photocopy of latest Michigan certificate (front side only).
3. Photocopy of graduate transcripts, only if credit is from another college or University. Please do not send original transcripts to the Office of Academic Services.

**Second Renewal Certificate Requirements (good for three years)**

1. Completion of the entire 18 credit hours after the issuance of the Michigan provisional certificate or a master’s degree in a field related to teaching from Eastern Michigan University. Coursework must support major/minor subject areas already existing on the certificate, or endorsement areas to be added to an existing certificate. (Twelve credits must be taken at Eastern Michigan University and six credits may be transferred if approved by the certification coordinator. No community college credits will be accepted.)
2. Photocopy of latest Michigan certificate (front side only).
3. Photocopy of graduate transcripts, only if credit is from another college or University. Please do not send original transcripts to the Office of Academic Services.

**Professional Certificate Requirements**

1. Three years of teaching (150 days per year, 450 days total).
2. Completion of the entire 18 credit hours after the issuance of the Michigan provisional certificate or a master’s degree in a field related to teaching from Eastern Michigan University. Coursework must support major/minor subject areas already existing on the certificate. (Twelve credits must be taken at Eastern Michigan University and six credits may be transferred if approved by the certification coordinator. No community college credits will be accepted.) To meet state Reading requirements for the professional certificate, six hours of Reading courses for elementary or three hours for Secondary must be posted on your transcripts.
3. Photocopy of latest Michigan certificate (front side only).
4. Photocopy of transcripts, only if credit is from another college or University. Please do not send original transcripts to the Office of Academic Services.
5. Recommendation form completed by appropriate school district representative. After the professional certificate has been issued the teacher must complete either six credit hours or 18 hours of CEU’s that have been approved in advance by the Michigan Department of Education. Contact the Michigan Department of Education (Marleen Higbee) by phone, 517.373.3310, or fax, 517.373.0542, to obtain an application to renew professional certificates.

Eastern Michigan University does not process renewals of Professional Certificates. Professional renewals are handled by contacting the Michigan Department of Education directly (517.373.3310).
**Adding Endorsements**

Endorsements are available in various subject areas. These endorsements require coursework, and typically, the appropriate subject area test from the Michigan Test for Teacher Certification. The first step in this process is to meet with a department adviser who can write a program of study for the subject area you would like to add. Upon completion of the coursework and test(s), each candidate must present the following documents to the College of Education Office of Academic Services.

1. Photocopy of test scores for the endorsement area to be added.
2. Photocopy of latest Michigan certificate (front side only).
3. Photocopy of transcripts, only if credit is from another college or University. Please do not send original transcripts to the Office of Academic Services.
4. Signed approval form from appropriate Eastern Michigan University department, if needed.

The Michigan Department of Education will bill each candidate for their renewal, professional certificate or endorsement. Do not send any money to the Office of Academic Services.

**Admission**

Students interested in pursuing coursework toward continuing certification should apply for Office of Graduate Studies and Research admission as “Teacher Endorsement” or “Teacher Certification.” This requires an application, application fees and undergraduate transcripts (401 Pierce, 734.487.3060).
Leadership and Counseling Programs

Leadership and Counseling

Address: 304 Porter Building
Phone: 734.487.0255
E-mail: Jtracy@emich.edu
Web site: www.emich.edu/coe/lc

The Department of Leadership and Counseling offers two program areas: educational leadership and counseling. The educational leadership program awards the master of arts degree, the specialist in arts degree and the University’s first doctoral degree, the Ed.D. The counseling program offers the master of arts degree.

Both program areas have the flexibility and content to provide education to a broad range of professionals seeking training for K-12 leadership, school, community and college counseling, student affairs and higher education administration. The specific requirements and class offerings follow. Please check the department web site for recent program changes.

Admission applications are processed in order for candidates to begin studies in the winter, spring, summer and fall. To be considered for the admission process, a completed application including transcripts, statement of intent, résumé, recommendations and other assessment(s) that may be necessary must be submitted to Graduate admissions, P.O. Box 970, Eastern Michigan University, Ypsilanti, MI 48197 by:

MA Counseling Programs:
• February 10th for spring admission
• March 1st for summer admission
• May 15th for Fall admission
• September 15th for Winter admission

MA and Specialist Educational Leadership Programs (rolling admissions, however, the following dates are recommended for priority consideration):
• March 15th for spring admission
• April 15th for summer admission
• May 15th for Fall admission
• November 1st for Winter admission

Educational Leadership Program

The educational leadership programs leading to the master of arts degree, the specialist of arts degree and the doctor of education degree, as well as individual courses, are of interest and assistance to professional educators in general. For prospective or practicing administrators, the programs provide basic administrative course offerings as well as opportunities to specialize in administration in K-12 schools, student affairs and higher education.

In addition, persons preparing for leadership positions in the many other areas of education (e.g., adult education, career education, community education, personnel, school and community relations, administration of vocational and technical education, etc.) will find an appropriate selection of courses. Many of the courses offered are excellent electives for students pursuing advanced degrees in other departments.

Program formats have been designed to provide flexibility in course selection to accommodate each student’s unique
experiences and future career goals and are located in our on-campus and off-campus locations. Course selections should reflect the student’s career aspirations and University requirements. The program is usually planned to prepare the student for a specific educational administrative position. More complete information may be obtained by contacting the advising coordinator.

**School Counseling, Community Counseling and College Counseling Programs**

**Program Advising**

Graduate study in counseling consists of three master of arts degree programs: school counseling, community counseling and college counseling. All counseling programs are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

The master’s degree program provides entry-level competencies and credentials for such positions as elementary and secondary school counselors, community agency counselors and college counselors. Counseling programs meet academic requirements for licensing as professional counselors in Michigan. The school counseling program also meets requirements for K-12 endorsement for school counselors in Michigan. The admission requirements for the school counseling, the college counseling and community counseling programs are as follows:

**Admission Requirements**

Admission to all programs is selective. The selection process is designed to assess the candidate’s suitability for graduate study and for a professional career in counseling. Candidates who are selected for these programs are expected to make major commitments to their graduate training.

1. Applicants must have graduated from a regionally accredited institution.
2. Evidence of academic aptitude for graduate-level study, that includes at least one of the following:
   a. A 2.75 overall undergraduate GPA, or a 3.0 GPA in the second half of the undergraduate degree program.
   b. A graduate GPA of a 3.3 on a previously completed advanced degree.
   c. An acceptable Graduate Record Examination (GRE) score as defined by the department (contact the Coordinator of Graduate Advising). The GRE score may not be more than 5 years old.
   d. Applicants not meeting other criteria, but having an acquired knowledge of the counseling field based on five years of related experience, may be eligible. Students applying under this provision must contact the coordinator of advising for specific procedures prior to application to the Office of Graduate Studies and Research.
3. International students must meet at least one of the following additional criteria:
   a. A score of 550 (Total) on the Test of English as a Foreign Language (TOEFL) and a rating of 5 on the essay. (Additional course work in composition may be required.) These tests must have been taken within the last two years.
   b. A score of 77 on the Michigan English Language Ability Battery (MELAB) and a rating of at least 3.0 on the oral interview portion of the MELAB. (Additional course work in composition may be required.) These tests must have been taken within the past two years.
4. Statement of Intent: A one-page statement focusing on the applicant’s motivation and rationale for seeking admission to the specific program as well as his or her back ground and goals related to professional studies.
5. Résumé: A focused, one-page summary of program-relevant educational, career and/or life experiences.
6. Three recommendations: These must be completed on recommendation forms available from the department. They should be completed by professionals with knowledge of the applicant’s suitability for graduate work (e.g., supervisors, undergraduate professors).

**Admission Process**

Admission to counseling programs occurs during a two-phase cycle. Applicants are screened during the semester prior to the semester desired for admission. All materials must be submitted to the Office of Admissions by their established deadlines.

1. Graduate Admissions receives and gathers all required documents. After all materials (including transcripts, recommendation forms, résumé, letter of intent, other statements and Graduate Record Examination scores) are on file, they are sent to the department for review.
2. The counseling program will notify students, in writing, when they have received copies of all application materials from the Office of Graduate Studies and Research. The program review process is conducted in two phases.
Phase I: Applicants are screened based on the following criteria: academic potential as reflected in the GPA and Graduate Record Examination scores; compatibility of applicant’s goals and program goals as expressed in the letter of intent; and educational, career and life experiences that demonstrate interest in a career as a professional counselor or student personnel worker, as reflected in the résumé and letters of recommendation.

Phase II: Based on the Phase I review, select applicants are invited to campus for a series of interviews with the program faculty.

3. Final admission decisions are then made by the faculty.

Appeal

The admissions appeal procedure provides each applicant with the opportunity to appeal formally the admissions decision. Appeal must be based on capricious or unfair treatment during the admissions process. This procedure is not intended to handle the case of applicants who do not meet minimum standards for admission as outlined in the graduate catalog. Appeal must begin within five working days of the start of the next semester, i.e., the semester following the admissions decision. Students wishing to appeal must contact the coordinator of advising to obtain a written outline of the appeal procedure.

Personal and Professional Development

Throughout the program, students are encouraged to be come more aware of themselves, to evaluate their own potential for careers in counseling and to grow both personally and professionally. Courses provide opportunities for growth and development through self-exploration activities (e.g. roleplaying, personal reaction papers, values clarification exercises, participation in groups). Involvement in one’s own counseling is encouraged. Opportunities are available at University Counseling Services and through referral to outside sources. Students are encouraged to join professional organizations, to attend workshops and conferences, and to become involved in the counseling profession at the state and national levels.

Student performance is reviewed at designated points throughout the program (retention review). The purpose of review is to identify any difficulties the student may be experiencing in the areas of academic achievement and/or skill development, and to develop appropriate plans for remediation. For example, midway through programs students apply to enroll in CSAP686 Counseling Practicum I. At this point program faculty evaluate the readiness of all applicants to begin working with clients in the counseling laboratory.

Dismissal

After formal review, program faculty may recommend that a student leave the program. This may occur when student goals and student academic behavior appear incompatible with program goals. In addition, the Office of Graduate Studies and Research may dismiss students for academic reasons. If a student’s cumulative GPA is less than a 3.0 at the end of any semester, the student is placed on academic probation. The student then has two periods of enrollment to remove this probationary status. If the probationary status is not removed, the student is dismissed from the University for academic reasons.

Students in counseling programs are expected to conduct themselves in a responsible and professional manner at all times. The student, as a professional-in-training, must adhere to the code of ethics of the American Counseling Association (ACA). A copy of these standards is distributed with the student handbook for Counseling programs. Because of the nature of the counseling profession, the ethical behavior and development of students is considered and reviewed by the faculty through its dismissal policy. Behavior, personal characteristics or personal issues should not interfere with the capacity of the student to be a helping professional (see student handbook). A full description of the student dismissal policy is contained in the student handbook for counseling programs.

Exit/Graduation

Criteria for exit from any counseling program include, but are not limited to, the following:

1. Successful completion of all course work on the program of study with a minimum GPA of 3.0.
2. Successful completion of all required practica, fieldwork and internship.
3. Successful completion of required culminating seminars and a passing score on the Counselor Preparation Comprehensive Examination (CPCE).

Leadership and Counseling Programs and Courses
Doctorate

Doctor of Education in Educational Leadership (EDLD)

Adviser: James Barott, PhD.
304 Porter
734.487.0255
james.barott@emich.edu

Model
Eastern Michigan University's advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society.

Admission Requirements
To be eligible for admission to the doctoral program in educational leadership at Eastern Michigan University, the applicant must meet the following requirements:

1. Must have completed either a master’s or specialist’s degree from an accredited University.
   a. Students with a master’s degree must have completed it with a minimum GPA of 3.3 on a 4.0 scale.
   b. Students with a specialist’s degree from Eastern Michigan University or from another accredited institution of higher education must have a minimum graduate GPA of 3.3 on a 4.0 scale.
2. Present evidence of a valid teaching certificate or sign a waiver indicating that they do not seek certification.
3. Complete the Application for Graduation Admission form.
4. Provide a résumé reflecting professional experience, scholarly activity, etc.
5. Submit three letters of recommendation addressing the applicant’s professional background, two of which must be from past or present supervisors.
6. It is desirable that applicants currently hold, or formerly have held, an administrative position; or present evidence of leadership potential.
7. Scores on the General Test of the Graduate Record Examinations (Graduate Record Examination) are required. Typically, students admitted to the doctoral program will have scored at or above the 55th percentile on the analytical, verbal and quantitative sections of the Graduate Record Examination with a minimum composite score of 1000 on the General Test and a 4.0 on analytical writing. Given the focus of the educational leadership program on a holistic admissions approach, failure to score at this level of the Graduate Record Examination will not necessarily exclude a person from admission if other factors indicate potential for success and are judged as superior assets by the faculty.
8. The faculty of the educational leadership program will conduct personal interviews with selected individuals applying for the doctoral program once a year. An extemporaneous writing sample is required.
9. The admission deadline is February 1 for admittance during the following summer session. A limited number of candidates are chosen each year.

Admission Process
The admission process for the doctoral degree includes the following steps:

1. Send the Application for Graduate Admissions form, fee, required transcripts, résumé, a copy of test scores, personal essay and letters of recommendation to the Office of Admissions.
2. Send official Graduate Record Exam results to the Office of Admissions.
3. Upon receipt of the completed applications by February 1, the materials will be reviewed by the faculty of the educational leadership program. Selected applicants will be invited to a personal interview with the program faculty.
4. Following personal interviews, those candidates who have presented the greatest evidence of potential for success in the program will be selected and notified of their admission by the program coordinator. Only 12-15 candidates are selected annually.
5. All decisions by the faculty regarding admissions are final.
Retention Process and Review
The objective of this retention plan is to monitor students’ development and progress in the program, and to identify those students who need additional assistance in order to complete the doctoral program successfully.

1. If a doctoral student receives a grade lower than B+ in any educational leadership class, the educational leadership faculty member who assigns this grade must complete the “Leadership Candidate Evaluation Form” for this student, assign the appropriate rating on each of the 12 generic leadership skills, and include it in the student’s departmental file.

2. A retention review of the student’s file will be conducted at the end of the doctoral student’s first academic year by the student’s doctoral adviser. Students who have not maintained a minimum GPA of at least 3.5 in required educational leadership courses, or those who have not achieved an overall rating of at least “average” on the “Leadership Candidate Evaluation Form,” will be requested to meet with their doctoral adviser to discuss problems, concerns and issues. If a need for assistance is established, a plan will be developed by the adviser and student.

Credit Interface with Specialist’s Degree
Students may enter the doctoral program in educational leadership with a specialist’s degree in educational leadership either from Eastern Michigan University or from another accredited institution of higher education. The interface of credit from this degree with the doctoral degree differs depending on the field in which the specialist’s degree was earned.

Those students who have completed the EMU specialist’s degree in educational leadership, or in another department at EMU, are eligible to apply up to 32 hours of credit from this degree toward completion of the 60-hour doctoral program. The determination of which hours can be counted will be the responsibility of the student’s doctoral adviser.

Internship Option
The application of conceptual, technical and human relations skills that is essential to successful educational leadership (i.e., the testing of theory against prevailing practice) is best observed and explored when there is direct involvement in administration. Students in the educational leadership doctoral program have the option of an internship of 120-240 clock hours. This internship is to be a clinical experience that occurs in a leadership role related to the student’s career goals. The internship is to be supervised by an experienced educational administrator and the director of the intern program in the educational leadership program.

The internship requirement must be completed prior to the completion of the comprehensive qualifying examination.

Residence Requirement
Although the Graduate School does not require a specific period of campus residency, it nevertheless supports the efforts of graduate programs to create a cohesive intellectual community. Rigorous graduate programs constitute a community of scholars, in which students are gradually introduced by faculty to the scholarly standards, research protocols, ethical norms, professional expectations, social history and current leaders of the discipline. Such a community must be created deliberately, especially in programs with a high concentration of students who commute, attend part time and are employed full time. Seminars, speaker programs, shared authorship and conference presentations, and social events are just some of the ways in which this socialization can occur.

Comprehensive Qualifying Examination
When students have completed all doctoral course work except for dissertation research, they are required to complete the comprehensive qualifying examination. The purpose of this examination is to determine the student’s subject mastery of the concepts, literature base and research; and knowledge of problems and issues in the major field (educational leadership) and the cognate area of study. The student is expected to provide written evidence of the ability to analyze and synthesize information, integrate learnings into a meaningful whole and draw appropriate conclusions.

Following the writing of the comprehensive qualifying examination, the student’s responses will be reviewed by the student’s doctoral examination committee of the educational leadership program, depending upon the examination option selected. All options include an oral examination during which the student’s written exam is discussed in greater depth by the student with members of the doctoral committee. In the case of option two, appropriate individuals from
the host agency for the problem may also be invited to be present at the oral examination. However, decisions regarding the successful completion of the comprehensive qualifying examination will be made by the student’s doctoral committee members only.

Failure on the written portion of the comprehensive qualifying examination (either partially or totally) will cause the student’s performance in the program to be reviewed by the student’s doctoral committee in consultation with the department head. The committee will then recommend that either the student be dismissed from the doctoral program, be permitted to withdraw from the doctoral program or be allowed to retake the examination (either partially or totally) after a remediation plan has been developed and implemented. Re-examination may not take place until at least six months have elapsed, but must occur within one year. The results of the second examination are final. After the second written attempt, the student’s doctoral committee may ask the student to participate in an intensive oral examination. If, after this oral examination, the student’s doctoral committee maintains that the student has not achieved the level of proficiency needed by a professional in the field of educational leadership, the recommendation will be made to the graduate dean that the student be dismissed from the doctoral program.

Curriculum

A doctoral student’s individualized course of study is normally expected to encompass at least 60 hours of course work beyond the master’s degree. The exact number of hours will be determined by the student’s program adviser, based on a review of previous graduate work/transcripts, the student’s professional and personal aspirations and the doctor of education degree requirements as set forth by the Graduate School and the Department of Leadership and Counseling. Therefore, some plans of study will have only 60 hours while others may include additional hours, either courses designed to remove deficiencies or courses to enhance opportunities for leadership success, at the discretion of the program adviser.

The doctoral program of study has four components: major (educational leadership), cognate, research support and dissertation research. The minimum number of credit hours allocated to each component are:

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major (educational leadership)</td>
<td>30 hours</td>
</tr>
<tr>
<td>Cognate</td>
<td>10 hours</td>
</tr>
<tr>
<td>Research Support</td>
<td>8-12 hours</td>
</tr>
<tr>
<td>Dissertation Research</td>
<td>12 hours</td>
</tr>
</tbody>
</table>

Program Total: 60 hours minimum

Major (Educational Leadership): 30 hours

The remaining 12 hours are to be selected from EDLD courses according to the student’s professional and personal goals, including considerations of career advancement and certification, and as approved by the student’s doctoral adviser. Previous graduate course work in educational leadership which was taken as part of the specialist’s degree can be used to meet some of the 30 hours in the major, as described in the credit interface section on page 121.

The 30 hours in the major in educational leadership include 18 hours in the following required courses:
- EDLD 710 - Leadership Theory Credit Hours: 3 hrs
- EDLD 714 - Data-Driven Decision Management for Educational Leaders Credit Hours: 3 hrs
- EDLD 740 - Organizational Theory Credit Hours: 3 hrs
- EDLD 794 - Advanced Seminar in Educational Administration Credit Hours: 3 hrs
- EDLD 810 - Ethics and Policy Analysis for Educational Leaders Credit Hours: 3 hrs
- EDLD 820 - The Politics of Educational Leadership Credit Hours: 3 hrs

Cognate Courses: 10 hours

The opportunity for individualization of the doctoral program is present in the selection of a cognate area of study which contributes significantly to the student’s development as a professional educator and administrator. The cognate
specialization is developed through completion of a sequence of related courses that are designed to add depth to the student’s doctoral program. In order to provide maximum flexibility in meeting individual needs, the 10-hour cognate may be completed in any one or a combination of graduate academic units, departments, schools, or colleges of the University that offer a sufficient number of advanced graduate courses. Previous graduate course work in a cognate that was taken as part of the specialist degree can be used to meet some of the 10 hours in the cognate, as described in the credit interface section above.

Research Support Courses: 8-12 hours

The research support component of the doctoral program is designed to enable the student to demonstrate competence in research design, analysis and the use of research tools. Additionally, the student will have experience in conducting useful research and be able to use educational research as an informed and productive consumer. Both statistics and applications courses are needed in this area, depending upon the student’s background in this field, and as approved by the student’s doctoral adviser. Previous graduate course work in research and research support that was taken as part of the specialist’s degree can be used to meet some of the eight hours in this area, as described in the credit interface section above.

- EDLD 712 - Analysis of Research in Administration Credit Hours: 3 hrs
- EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs
- EDPS 651 - Inferential Statistics Credit Hours: 2 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Dissertation Research: 12 hours

Each student in the doctor of education program will be required to complete a dissertation, a document representing an original research effort. The dissertation will focus on an area of particular interest to the student and the dissertation chair; and the research may be conducted using a variety of research designs (causal-comparative, experimental, etc.) as well as approaches (quantitative or qualitative). The student must register for a minimum of 12 hours of dissertation research, including the dissertation seminar, but may not enroll in dissertation research until he or she has completed the comprehensive qualifying examination and is admitted to candidacy by the Graduate School. However, this stipulation does not preclude enrollment in the dissertation seminar nor in the student’s working with the dissertation chair in formulating ideas about specific research topics. Furthermore, the approval of the dissertation proposal cannot occur until after the student has passed the comprehensive qualifying examination and is enrolled in the dissertation seminar.

When the dissertation is completed, the student will present the written document to the dissertation committee for approval. In a two-hour oral examination/defense, the student will answer questions related to the dissertation research and will defend it. At the conclusion of the oral examination, the doctoral/dissertation committee will determine: 1) if the written document meets doctoral standards of quality and rigor; and 2) if the student has successfully defended the research conducted. This process of review and revision continues until the doctoral committee approves both the written document and student’s oral defense of the research.

- EDLD 895 - Dissertation Research Seminar Credit Hours: 2 hrs
- EDLD 896 - Dissertation Research Credit Hours: 1 hrs
- EDLD 897 - Dissertation Research Credit Hours: 2 hrs
- EDLD 898 - Dissertation Research Credit Hours: 4 hrs
- EDLD 899 - Dissertation Research Credit Hours: 8 hrs
- EDLD 900 - Dissertation Research Credit Hours: 12 hrs

Program Total: 60 hours

Graduate Certificate
Graduate Certificate in Community College Leadership (CCL)

Adviser: Eboni Zamani-Gallaher, PhD.
304 Porter
734.487.0255
eboni.zamani@emich.edu

This 18 credit hour graduate certificate allows students to extend their knowledge and understanding of the community college setting. The program also interfaces with EMU's other higher education administration degree programs.

Required Core Courses: 15 hours

- EDLD 551 - Contemporary College Students Credit Hours: 3 hrs
- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- EDLD 611 - Introduction to Adult and Continuing Education Credit Hours: 3 hrs
- EDLD 632 - Community College Leadership Credit Hours: 3 hrs
- EDLD 696 - Seminar in Educational Leadership Credit Hours: 3 hrs

Organizational Control and Administration of Community Colleges (3 hrs)

Elective Courses: 3 hours

Three hours from the following:

- EDLD 550 - Introduction to Student Affairs in Higher Education Credit Hours: 3 hrs
- EDLD 655 - College Student Development Theory Credit Hours: 3 hrs
- EDLD 613 - Introduction to Higher Education Credit Hours: 3 hrs
- EDLD 614 - Law for Higher Education Credit Hours: 3 hrs
- EDLD 622 - Organization and Administration of Higher Education Credit Hours: 3 hrs
- EDLD 633 - History of American Higher Education Credit Hours: 3 hrs
- EDLD 634 - Higher Education Finance Credit Hours: 3 hrs
- EDLD 635 - Policy Analysis in Higher Education Credit Hours: 3 hrs
- EDLD 660 - Grantwriting Credit Hours: 2 hrs
- EDLD 696 - Seminar in Educational Leadership Credit Hours: 3 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs

Certificate Total: 18 hours

Additional Program Information

Course Substitutions/Program Changes
Changes in the student’s official program and substitution of courses must be approved by the adviser prior to registration.

Courses Outside the Program
A suggested list of courses has been prepared by the EDLD Program. Other courses may be used for electives in this area if they are approved by the student’s adviser.

Internships
Information is available from the director of the intern program or at http://www.emich.edu/coe/Lead_Coun/tracy.html. Internship placements should be arranged at least one semester in advance and must be approved by the internship director.

Graduate Certificate in Helping Interventions in a Multicultural Society (HIMS)
Potential HIMS certificate program applicants will be required to fulfill the following admission requirements which reflect those criteria required for the counseling master’s degree program. These include:

1. Applicants must be program admitted in a valid graduate program in the helping services, or have completed such a program with a minimum GPA of 3.0 on a 4.0 scale.
2. International students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 and 5 on the essay.
3. Applicants must submit recommendations from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office. Recommendation forms are due with the Application for Graduate Admission form.
4. Applicants must submit a résumé that details their professional and educational experiences.
5. On the graduate application, students must complete a letter of intent relevant to the certificate program. This letter should address the applicant’s experiences and knowledge in working with culturally diverse populations, their rationale for seeking additional training and their goals after completing such training.

Required Core Courses: 11 hours

- COUN 505 - Counselor Development: Basic Skills Credit Hours: 3 hrs
- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- COUN 660 - Community Resources in Counseling Credit Hours: 2 hrs
- COUN 671 - Advanced Multicultural Counseling Credit Hours: 3 hrs

Elective Courses: 4 hours

Select four hours of elective courses from the following:

- COUN 590 - Special Topics Credit Hours: 1 hr
- COUN 591 - Special Topics Credit Hours: 2 hrs
- CTAC 511 - Readings in Interracial/Interethnic Communication Credit Hours: 2 hrs
- CTAC 579 - Studies in Intercultural Communication Credit Hours: 3 hrs
- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- PSY 542 - Women and Mental Health Credit Hours: 2 hrs
- SOCL 502 - Racial and Cultural Minorities Credit Hours: 3 hrs

Certificate Total: 15 hours

Master's

Master of Arts in College Counseling (CLCL)

The College Counseling Program is designed for students who are interested in working as professional counselors in institutions of higher education. It is a 48-hour program leading to professional counseling licensure in Michigan. Candidates selected for this program are expected to make a major commitment to graduate training and to enroll in coursework on a regular basis. The program includes a 600 clock-hour supervised counseling internship experience. The College Counseling Program is nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body that evaluates and grants accreditation to graduate-level programs in professional counseling. The program meets the academic and internship requirements for limited
licensure as a professional counselor (LLPC) in the state of Michigan. Information on the post-master's requirements for full licensure as a professional counselor is available in the student handbook for Counseling Programs.

Curriculum

The following outline describes the general program requirements for the 48-hour college counseling program.

Concentration Courses (COUN):

Basic Counseling Core (required): 27 hours

- COUN 503 - Dynamics of Life Development Credit Hours: 3 hrs
- COUN 505 - Counselor Development: Basic Skills Credit Hours: 3 hrs
- COUN 508 - Theories of Counseling Credit Hours: 3 hrs
- COUN 520 - Assessment in Counseling Credit Hours: 3 hrs
- COUN 530 - Career Development and Information Services Credit Hours: 3 hrs
- COUN 540 - Group Process I Credit Hours: 3 hrs
- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- COUN 580 - Counselor Development: Counseling Process Credit Hours: 3 hrs
- COUN 622 - Diagnosis and Treatment Planning in Counseling Credit Hours: 3 hrs

Supervised Counseling Experiences (required): 8 hours

Counseling Practicum: 4 hours; Counseling Internship: 4 hours

- COUN 684 - Counseling Practicum I Credit Hours: 2 hrs
- COUN 686 - Counseling Practicum I Credit Hours: 4 hrs
- COUN 785 - The Counseling Internship Credit Hours: 1 hrs
- COUN 786 - The Counseling Internship Credit Hours: 2 hrs
- COUN 787 - The Counseling Internship Credit Hours: 3 hrs
- COUN 788 - The Counseling Internship Credit Hours: 4 hrs

College Counseling Specialization Area (required): 8 hours

- COUN 692 - Ethical, Legal and Professional Issues in College Counseling Credit Hours: 2 hrs
- EDLD 550 - Introduction to Student Affairs in Higher Education Credit Hours: 3 hrs
- EDLD 655 - College Student Development Theory Credit Hours: 3 hrs

Elective Courses: 2 hours minimum

Students select electives with their advisers to enhance their professional growth. They may choose from this list or from other COUN courses that meet their objectives.

- COUN 515 - Crisis Intervention Credit Hours: 2 hrs
- COUN 574 - Couple and Family Counseling Credit Hours: 2 hrs
- COUN 575 - Substance Abuse Counseling I Credit Hours: 2 hrs
- COUN 591 - Special Topics Credit Hours: 2 hrs

Research Course (required): 3 hours

- COUN 592 - Special Topics Credit Hours: 3 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs

Program Total: 48 hours

Master of Arts in Community Counseling (CCSL)
The Community Counseling program is a 48-hour master’s degree program that is intended for students who seek licensure as professional counselors and employment in community agency settings. Candidates who are selected for this program are expected to make a major commitment to their graduate-level training and education as well as to enroll in course work on a regular basis. The program includes a 600 clock-hour supervised counseling internship experience. The Community Counseling program is nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body that evaluates and grants accreditation to graduate-level programs in professional counseling. The program meets the academic and internship requirements for limited licensure as a professional counselor (LLPC) in the state of Michigan. Information on the post-master’s requirements for full licensure as a professional counselor (LPC) is available in the student handbook for Counseling programs.

Curriculum

The following outline describes the general program requirements leading to a minimum of 48 hours of graduate study for those students seeking the master’s degree in community counseling.

Concentration Courses (COUN)

Basic Counseling Core (required): 27 hours
- COUN 503 - Dynamics of Life Development Credit Hours: 3 hrs
- COUN 505 - Counselor Development: Basic Skills Credit Hours: 3 hrs
- COUN 508 - Theories of Counseling Credit Hours: 3 hrs
- COUN 520 - Assessment in Counseling Credit Hours: 3 hrs
- COUN 530 - Career Development and Information Services Credit Hours: 3 hrs
- COUN 540 - Group Process I Credit Hours: 3 hrs
- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- COUN 580 - Counselor Development: Counseling Process Credit Hours: 3 hrs

Community Counseling Specialization Area (required): 4 hours
- COUN 660 - Community Resources in Counseling Credit Hours: 2 hrs
- COUN 694 - Ethical, Legal and Professional Issues in Community Counseling Credit Hours: 2 hrs

Community Counseling Cognate Area (required): 2 hours
- Choose one course from the following:
  - COUN 515 - Crisis Intervention Credit Hours: 2 hrs
  - COUN 574 - Couple and Family Counseling Credit Hours: 2 hrs
  - COUN 575 - Substance Abuse Counseling I Credit Hours: 2 hrs

Supervised Counseling Experience (required): 8 hours

Counseling Practicum: 4 hrs; Counseling Internship: 4 hrs
- COUN 684 - Counseling Practicum I Credit Hours: 2 hrs
- COUN 686 - Counseling Practicum I Credit Hours: 4 hrs
- COUN 785 - The Counseling Internship Credit Hours: 1 hrs
- COUN 786 - The Counseling Internship Credit Hours: 2 hrs
- COUN 787 - The Counseling Internship Credit Hours: 3 hrs
- COUN 788 - The Counseling Internship Credit Hours: 4 hrs

Elective Courses: 4 hours

Students select electives with their adviser to enhance their professional growth. They may choose from this list or choose other COUN courses that meet this objective.
- COUN 515 - Crisis Intervention Credit Hours: 2 hrs
- COUN 574 - Couple and Family Counseling Credit Hours: 2 hrs
- COUN 575 - Substance Abuse Counseling I Credit Hours: 2 hrs
- COUN 590 - Special Topics Credit Hours: 1 hr
- COUN 591 - Special Topics Credit Hours: 2 hrs
- COUN 651 - Counseling with Children Credit Hours: 3 hrs
- COUN 671 - Advanced Multicultural Counseling Credit Hours: 3 hrs

Cognate Course:

Research Course (required): 3 hours

- COUN 592 - Special Topics Credit Hours: 3 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs

Elective Courses

For many students, six hours of elective course work will not be enough to train them to work in the settings in which they will seek employment. It is strongly recommended that students take elective course work in substance abuse counseling, marriage/family counseling and grant/proposal writing. In addition, students who have not had course work in psychology (i.e. abnormal psychology, theories of personality, etc.) will be encouraged to do so. It is possible that some students will want to develop a program that contains more than 48 hours. The student and his/her adviser will carefully review the student’s education and experience in planning the program of study.

Program Total: 48 hours

Note:

Master of Arts in Educational Leadership- Higher Education/General Administration (HEGA)

This 38 credit hour master's program may be of particular interest to professional educators who are either prospective or practicing higher education administrators.

Model

Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society.

Admission Requirements

1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have earned a valid undergraduate degree from an accredited four-year institution of higher education (an undergraduate student may apply after the final semester’s registration is completed).
3. International students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 and 5 on the essay.
4. Applicants seeking their first master’s degree must have an undergraduate GPA of 2.5 overall or a GPA of 2.75 in the second half of the undergraduate program. Applicants seeking a second master’s degree must have a GPA of 3.0 or better on their previous graduate degree.
5. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office and are due with the Application for Graduate Admission.
6. Applicants must submit a resume that details their professional and educational experiences.
7. On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.
Admission Process

The admission process for the master’s degree is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain test scores, the required GPAs, confidential appraisal forms, a copy of the teaching certificate or waiver, and the résumé will be forwarded to the coordinator of advising for the educational leadership program.

2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, goal statement and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed “questionable” due to a combination of low GPA, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.

3. These applications will be reviewed by the full faculty, giving special consideration to the life experiences, verbal skills, writing skills, educational background and GPAs.

4. Those applications which are accepted will be notified.

5. All decisions by the faculty regarding admissions are final.

Retention Review Requirements

A retention review will be conducted by the faculty review committee and coordinated by the EDLD coordinator of advising. Students who have not met the following criteria will be identified and asked to meet with their academic advisers. Students must have:

1. A minimum GPA of at least 3.25 in required educational leadership courses;

2. Acceptable progress made in developing a professional portfolio after completing 18 hours of course work; and

3. An overall academic skills assessment of average, or above, in any educational leadership class.

Retention Process

The objective of this retention plan is to assure that students have an opportunity to review the appropriateness of their career choice and to receive assistance in achieving their master’s degree in educational leadership should they choose to continue in the field. The retention review will be conducted by the EDLD coordinator of advising with the faculty review committee.

1. After completing 18 hours of course work, students should schedule a meeting with their adviser to discuss the review progress in developing a professional portfolio.

2. Faculty may complete the Leadership Candidate Evaluation form for any student in any class, if they choose to do so. These forms will be filed in the student’s folder.

3. Each semester the Office of Graduate Studies and Research will review the GPA of each student completing 12 hours (which should include EDLD510 and EDLD514). The EDLD coordinator of advising will examine the files of all students who did not achieve the required GPA and recommend review by the faculty review committee.

4. The coordinator of advising will send a letter to each identified student requesting him or her to meet with his or her adviser to discuss career goals and the need for assistance. If the need for assistance is established, a plan will be developed. For example, if difficulties exist with skill or concept acquisition, the student may be required to audit a class.

Exit Process

Portfolio Requirement

Students will be guided through the portfolio assessment process by their adviser as follows:

1. Following admission, a student should schedule a meeting with his/her adviser to plan his/her program and to obtain information about the exit portfolio assessment.

2. After completing 18 hours of course work, a student should schedule a meeting with his/her adviser to discuss the progress of his/her portfolio.

3. When a student believes his/her portfolio is complete, he/she should contact his/her adviser to schedule his/her oral and written presentation. This will be made before at least two members of the EDLD program faculty, and will consist of an oral presentation by the student, followed by discussion with faculty regarding
the student’s personal learning and growth, along with perceptions of the strengths and/or weaknesses of the overall program. Student achievement will be documented in a cumulative portfolio that contains artifacts representative of the educational leadership knowledge base.

An assessment of the portfolio will be made using the following criteria:

Cognitive complexity
Quality of content
Comprehensiveness
Meaningfulness

In addition, the program component stressing effective written and oral communication skills will be assessed by examination of the quality of writing presented in the portfolio and the quality of oral communication displayed in the portfolio presentation before faculty. All of the components of the portfolio must be rated satisfactory for completion.

The portfolio will be evaluated as one of the following:

- Pass without revisions
- Pass with minor revisions by date indicated
- Pass with major revisions by date indicated
- No pass

Course Requirements
Students must complete a minimum of 38 credit hours to complete the master’s degree. Twenty hours of specific basic program coursework, two hours in general administration and 15 EDLD and related course electives are required. Electives are chosen in consultation with the student’s program adviser.

Basic Concentration Courses: 18 hours
- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- EDLD 551 - Contemporary College Students Credit Hours: 3 hrs
- EDLD 613 - Introduction to Higher Education Credit Hours: 3 hrs
- EDLD 614 - Law for Higher Education Credit Hours: 3 hrs
- EDLD 622 - Organization and Administration of Higher Education Credit Hours: 3 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs

General Administration Emphasis: 11 hours
- EDLD 633 - History of American Higher Education Credit Hours: 3 hrs
- EDLD 634 - Higher Education Finance Credit Hours: 3 hrs
- EDLD 635 - Policy Analysis in Higher Education Credit Hours: 3 hrs
- EDLD 687 - Master’s Internship in Educational Leadership Credit Hours: 2 hrs

Elective Courses: 9 hours
- Six elective course hours selected in consultation with the graduate adviser
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs

Program Total: 38 hours

Master of Arts in Educational Leadership- Higher Education/Student Affairs (HESA)

Adviser: Elizabeth Broughton, PhD.
304 Porter
This 38 credit hour master's program is designed to prepare individuals for a wide variety of student affairs positions, such as admissions, orientation, Greek life, housing, leadership development, student activities, academic advising, and athletic academic advising.

Model

Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society.

Admission Requirements

1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have earned a valid undergraduate degree from an accredited four-year institution of higher education (an undergraduate student may apply after the final semester’s registration is completed).
3. International students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 and 5 on the essay.
4. Applicants seeking their first master’s degree must have an undergraduate GPA of 2.5 overall or a GPA of 2.75 in the second half of the undergraduate program. Applicants seeking a second master’s degree must have a GPA of 3.0 or better on their previous graduate degree.
5. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office and are due with the Application for Graduate Admission.
6. Applicants must submit a resume that details their professional and educational experiences.
7. On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

Admission Process

The admission process for the master’s degree is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain test scores, the required GPAs, confidential appraisal forms, a copy of the teaching certificate or waiver, and the résumé will be forwarded to the coordinator of advising for the educational leadership program.
2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, goal statement and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed “questionable” due to a combination of low GPA, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.
3. These applications will be reviewed by the full faculty, giving special consideration to the life experiences, verbal skills, writing skills, educational background and GPAs.
4. Those applications which are accepted will be notified.
5. All decisions by the faculty regarding admissions are final.

Retention Review Requirements

A retention review will be conducted by the faculty review committee and coordinated by the EDLD coordinator of advising. Students who have not met the following criteria will be identified and asked to meet with their academic advisers. Students must have:

1. A minimum GPA of at least 3.25 in required educational leadership courses;
2. Acceptable progress made in developing a professional portfolio after completing 18 hours of course work; and
3. An overall academic skills assessment of average, or above, in any educational leadership class.
Retention Process

The objective of this retention plan is to assure that students have an opportunity to review the appropriateness of their career choice and to receive assistance in achieving their master’s degree in educational leadership should they choose to continue in the field. The retention review will be conducted by the EDLD coordinator of advising with the faculty review committee.

1. After completing 18 hours of course work, students should schedule a meeting with their adviser to discuss the review progress in developing a professional portfolio.
2. Faculty may complete the Leadership Candidate Evaluation form for any student in any class, if they choose to do so. These forms will be filed in the student’s folder.
3. Each semester the Office of Graduate Studies and Research will review the GPA of each student completing 12 hours (which should include EDLD510 and EDLD514). The EDLD coordinator of advising will examine the files of all students who did not achieve the required GPA and recommend review by the faculty review committee.
4. The coordinator of advising will send a letter to each identified student requesting him or her to meet with his or her adviser to discuss career goals and the need for assistance. If the need for assistance is established, a plan will be developed. For example, if difficulties exist with skill or concept acquisition, the student may be required to audit a class.

Exit Process

Portfolio Requirement

Students will be guided through the portfolio assessment process by their adviser as follows:

1. Following admission, a student should schedule a meeting with his/her adviser to plan his/her program and to obtain information about the exit portfolio assessment.
2. After completing 18 hours of course work, a student should schedule a meeting with his/her adviser to discuss the progress of his/her portfolio.
3. When a student believes his/her portfolio is complete, he/she should contact his/her adviser to schedule his/her oral and written presentation. This will be made before at least two members of the EDLD program faculty, and will consist of an oral presentation by the student, followed by discussion with faculty regarding the student’s personal learning and growth, along with perceptions of the strengths and/or weaknesses of the overall program.

Student achievement will be documented in a cumulative portfolio that contains artifacts representative of the educational leadership knowledge base.

An assessment of the portfolio will be made using the following criteria:

- Cognitive complexity
- Quality of content
- Comprehensiveness
- Meaningfulness

In addition, the program component stressing effective written and oral communication skills will be assessed by examination of the quality of writing presented in the portfolio and the quality of oral communication displayed in the portfolio presentation before faculty. All of the components of the portfolio must be rated satisfactory for completion.

The portfolio will be evaluated as one of the following:

- Pass without revisions
- Pass with minor revisions by date indicated
- Pass with major revisions by date indicated
- No pass

Course Requirements

Students must complete a minimum of 38 credit hours to complete the master's degree. Twenty hours of specific basic concentration coursework, 10 hours in student affairs and 15 in EDLD and related course electives are required. Electives are chosen in consultation with the student's program adviser.
Basic Concentration Courses: 15 hours

- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- EDLD 613 - Introduction to Higher Education Credit Hours: 3 hrs
- EDLD 622 - Organization and Administration of Higher Education Credit Hours: 3 hrs

One course from the following:

- EDLD 614 - Law for Higher Education Credit Hours: 3 hrs
- EDLD 636 - Legal, Ethical and Policy Issues in Student Affairs Credit Hours: 2 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs

Student Affairs Emphasis: 13 hours

- EDLD 550 - Introduction to Student Affairs in Higher Education Credit Hours: 3 hrs
- EDLD 551 - Contemporary College Students Credit Hours: 3 hrs
- EDLD 655 - College Student Development Theory Credit Hours: 3 hrs
- EDLD 687 - Master’s Internship in Educational Leadership Credit Hours: 2 hrs

Students will enroll in this course twice.

Elective Courses: 10 hours

- Six elective course hours selected in consultation with the graduate adviser

Program Total: 38 hours

Master of Arts in Educational Leadership- K-12 Administration (K12A)

Adviser: Elizabeth Broughton, PhD.
304 Porter
734.487.0255
ebroughto@emich.edu

Model

Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society.

Admission Requirements

1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have earned a valid undergraduate degree from an accredited four-year institution of higher education (an undergraduate student may apply after the final semester’s registration is completed).
3. International students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 and 5 on the essay.
4. Applicants seeking their first master’s degree must have an undergraduate GPA of 2.5 overall or a GPA of 2.75 in the second half of the undergraduate program. Applicants seeking a second master’s degree must have a GPA of 3.0 or better on their previous graduate degree.
5. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office and are due with the Application for Graduate Admission.
6. Applicants must submit a resume that details their professional and educational experiences.
7. On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

Admission Process

The admission process for the master’s degree is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain test scores, the required GPAs, confidential appraisal forms, a copy of the teaching certificate or waiver, and the résumé will be forwarded to the coordinator of advising for the educational leadership program.

2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, goal statement and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed “questionable” due to a combination of low GPA, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.

3. These applications will be reviewed by the full faculty, giving special consideration to the life experiences, verbal skills, writing skills, educational background and GPAs.

4. Those applications which are accepted will be notified.

5. All decisions by the faculty regarding admissions are final.

Retention Review Requirements

A retention review will be conducted by the faculty review committee and coordinated by the EDLD coordinator of advising. Students who have not met the following criteria will be identified and asked to meet with their academic advisers. Students must have:

1. A minimum GPA of at least 3.25 in required educational leadership courses;
2. Acceptable progress made in developing a professional portfolio after completing 18 hours of course work; and
3. An overall academic skills assessment of average, or above, in any educational leadership class.

Retention Process

The objective of this retention plan is to assure that students have an opportunity to review the appropriateness of their career choice and to receive assistance in achieving their master’s degree in educational leadership should they choose to continue in the field. The retention review will be conducted by the EDLD coordinator of advising with the faculty review committee.

1. After completing 18 hours of course work, students should schedule a meeting with their adviser to discuss the review progress in developing a professional portfolio.

2. Faculty may complete the Leadership Candidate Evaluation form for any student in any class, if they choose to do so. These forms will be filed in the student’s folder.

3. Each semester the Office of Graduate Studies and Research will review the GPA of each student completing 12 hours (which should include EDLD510 and EDLD514). The EDLD coordinator of advising will examine the files of all students who did not achieve the required GPA and recommend review by the faculty review committee.

4. The coordinator of advising will send a letter to each identified student requesting him or her to meet with his or her adviser to discuss career goals and the need for assistance. If the need for assistance is established, a plan will be developed. For example, if difficulties exist with skill or concept acquisition, the student may be required to audit a class.

Exit Process

Portfolio Requirement

Students will be guided through the portfolio assessment process by their adviser as follows:

1. Following admission, a student should schedule a meeting with his/her adviser to plan his/her program and to obtain information about the exit portfolio assessment.

2. After completing 18 hours of course work, a student should schedule a meeting with his/her adviser to discuss the progress of his/her portfolio.
3. When a student believes his/her portfolio is complete, he/she should contact his/her adviser to schedule his/her oral and written presentation. This will be made before at least two members of the EDLD program faculty, and will consist of an oral presentation by the student, followed by discussion with faculty regarding the student’s personal learning and growth, along with perceptions of the strengths and/or weaknesses of the overall program.

Student achievement will be documented in a cumulative portfolio that contains artifacts representative of the educational leadership knowledge base.

An assessment of the portfolio will be made using the following criteria:

Cognitive complexity
Quality of content
Comprehensiveness
Meaningfulness

In addition, the program component stressing effective written and oral communication skills will be assessed by examination of the quality of writing presented in the portfolio and the quality of oral communication displayed in the portfolio presentation before faculty. All of the components of the portfolio must be rated satisfactory for completion.

The portfolio will be evaluated as one of the following:
Pass without revisions
Pass with minor revisions by date indicated
Pass with major revisions by date indicated
No pass

Course Requirements
Students must complete 29 hours of program course work and nine hours (including EDPS667 Introduction to Educational Research) in the supportive area. EDPS667 should be taken as early as possible in the program.

The student’s adviser will assist in developing the program of study that may include course work necessary for both administrative certification and the master’s degree.

A minimum of 38 hours of graduate credit applicable to the program is required for the master of arts degree. Courses in the basic concentration include:

Basic Concentration Courses: 29 hours

- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- EDLD 513 - Community Education and Community Relations Credit Hours: 3 hrs
- EDLD 514 - Organization and Administration of K-12 Schools Credit Hours: 3 hrs
- EDLD 515 - Instructional Leadership Credit Hours: 3 hrs
- EDLD 517 - Leadership for School Improvement Credit Hours: 3 hrs
- EDLD 612 - Economics of Public Education Credit Hours: 3 hrs
- EDLD 617 - Administering Human Resources in Education Credit Hours: 3 hrs
- EDLD 620 - The Principalship Credit Hours: 3 hrs
- EDLD 630 - Legal, Ethical and Professional Issues of Administration Credit Hours: 3 hrs
- EDLD 687 - Master’s Internship in Educational Leadership Credit Hours: 2 hrs

Elective Courses: 9 hours

- Six hours selected in consultation with the graduate adviser
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs

Program Total: 38 hours

Master of Arts in School Counseling (SCS2)
Adviser: Dibya Choudhuri, PhD.
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The school counseling program is a 48-hour master’s degree program that provides competencies and proficiencies for entry-level positions as school counselors in elementary, middle, and high school settings. Candidates selected for this program are expected to make a major commitment to their graduate training and to enroll in course work on a regular basis. A 600 clock-hour internship is required, and students must be willing to make the necessary adjustments to complete this internship commitment. Upon completion of the graduate program of study, students are eligible to apply for school counselor endorsement on their valid Michigan teaching certificates or for K-12 school counselor licensure. The program also meets the academic and internship requirements for limited licensure as a professional counselor (LLPC) in the state of Michigan. Information on the post-master’s requirements for full licensure as a professional counselor (LPC) is available in the student handbook for counseling programs. The School Counseling program is nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body that evaluates and grants accreditation to graduate-level programs in professional counseling.

Curriculum:

The following outline describes the general program requirements for the 48-hour school counseling program.

Concentration Courses:

Basic Counseling Core (required): 27 hours

- COUN 503 - Dynamics of Life Development Credit Hours: 3 hrs
- COUN 505 - Counselor Development: Basic Skills Credit Hours: 3 hrs
- COUN 508 - Theories of Counseling Credit Hours: 3 hrs
- COUN 520 - Assessment in Counseling Credit Hours: 3 hrs
- COUN 530 - Career Development and Information Services Credit Hours: 3 hrs
- COUN 540 - Group Process I Credit Hours: 3 hrs
- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- COUN 580 - Counselor Development: Counseling Process Credit Hours: 3 hrs
- COUN 622 - Diagnosis and Treatment Planning in Counseling Credit Hours: 3 hrs

School Counseling Specialization Area (required): 6-11 hours

- COUN 612 - The School Counselor Credit Hours: 2 hrs
- COUN 650 - Organization and Administration of School Counseling Services Credit Hours: 2 hrs
- COUN 651 - Counseling with Children Credit Hours: 3 hrs
- COUN 690 - Field-Based Experience II Credit Hours: 2 hrs
- COUN 696 - Ethical, Legal and Professional Issues in School Counseling Credit Hours: 2 hrs

Supervised Counseling Experience (required): 8 hours

- COUN 684 - Counseling Practicum I Credit Hours: 2 hrs
- COUN 686 - Counseling Practicum I Credit Hours: 4 hrs
- COUN 785 - The Counseling Internship Credit Hours: 1 hrs
- COUN 786 - The Counseling Internship Credit Hours: 2 hrs
- COUN 787 - The Counseling Internship Credit Hours: 3 hrs
- COUN 788 - The Counseling Internship Credit Hours: 4 hrs

Elective Courses: 0-2 hours

In consultation with their advisers, students may select elective courses to enhance their professional growth. Courses may be selected from this list or selected from other COUN courses that meet this objective.
Post Master's Certificate

Post-Master's Central Office/Superintendent Endorsement Certificate

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The State of Michigan K-12 School Administrator Certification is a state-supported post-master’s professional development option for prospective and current educators who seek enhanced training in school and/or district leadership, management and instruction. This voluntary credential, reinstated by legislative approval in August 2006, coincides with an ongoing process of Michigan state certification available through post-secondary institutions (including Eastern Michigan University) for the Basic (Initial) Certificate in K-12 Administration (school/assistant principal licensure). The Central Office/Superintendent Endorsement requires the successful completion of the basic (initial) school principal certificate.

The Basic Certificate in K-12 Administration may also be earned as part of the Master’s Degree Program in Educational Leadership at Eastern Michigan University. The district level leadership endorsement may be earned as part of the Specialist Degree Program in Educational Leadership at Eastern Michigan University.

The Central Office/Superintendent Endorsement Certificate requires 21 hours (minimum) of EMU Educational Leadership Specialist program courses (with an approved master's degree) to be determined with the program adviser, along with the Basic (Initial) Certificate in K-12 Administration (principal/assistant principal licensure).

Admission Requirements
1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have completed a master’s degree from an accredited University with a minimum GPA of 3.3 on a 4.0 scale.
3. Foreign students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 (total) or the Michigan English Language Ability Battery (MELAB) of 77.

4. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office. Recommendation forms are due with the Application for Graduate Admissions form.

5. Applicants must present evidence of a valid teaching certificate or sign a waiver indicating that they do not seek certification.

6. Applicants must submit a résumé that details their professional and educational experiences.

7. On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

**Admission Process**

The admission process for the post-master's certificate is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain the required GPAs, confidential appraisal forms and the résumé will be forwarded to the coordinator of advising for the educational leadership program.

2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, test scores, goal statements and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed “questionable” due to a combination of low GPA, low test scores, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.

3. These applications will be reviewed by the full faculty, giving special consideration to the student’s life experiences, verbal skills, writing skills, educational background, and GPAs.

4. Those applications which are accepted will be notified.

5. All decisions by the faculty regarding admissions are final.

For more information about the program, admissions, etc., contact the department head or visit www.emich.edu/coe/lc.

**Required Courses: 21 hours**

*Minimum 21 credit hours compiled from the following list. Courses must have the approval of the program adviser prior to the beginning of the program.*

- select 800-level EDLD doctoral courses
- EDLD 609 - Team Building and Consensus Decision-Making of Educational Leadership Credit Hours: 3 hrs
- EDLD 615 - Collective Negotiations in Education Credit Hours: 3 hrs
- EDLD 616 - Educational Facilities Planning Credit Hours: 3 hrs
- EDLD 617 - Administering Human Resources in Education Credit Hours: 3 hrs
- EDLD 625 - The Superintendency and District Level Leadership Credit Hours: 3 hrs
- EDLD 631 - Human Relations Skills for Educational Leaders Credit Hours: 3 hrs
- EDLD 660 - Grantwriting Credit Hours: 2 hrs
- EDLD 710 - Leadership Theory Credit Hours: 3 hrs
- EDLD 714 - Data-Driven Decision Management for Educational Leaders Credit Hours: 3 hrs
- EDLD 740 - Organizational Theory Credit Hours: 3 hrs
- EDLD 787 - Internship in Educational Administration Credit Hours: 2 hrs
- EDLD 788 - Internship in Educational Administration Credit Hours: 3 hrs
- EDLD 789 - Internship in Educational Administration Credit Hours: 4 hrs

Certificate Total: 21 hours

**Post-Master's Certificate Program for School Counselor Licensure (SCSL)**
The purpose of the post-master’s certificate for school counselor licensure is to provide a high quality training program
designed specifically to assist counselors in gaining the competencies and credentials necessary to earn the School
Counselor License in Michigan. To be considered for admission, candidates must provide evidence of each of the
following criteria:

1. Applicants must have graduated from a regionally accredited institution of higher education with a master’s
degree in counseling within the past 15 years. The degree must have included practicum (not field
placement).

2. Evidence of academic aptitude for continued graduate-level study as evidenced by a GPA of 3.3 on their
previously completed advanced degree.

3. International students must meet one or more of the following additional criteria:
   a. A score of 550 (total) on the Test of English as a Foreign Language (TOEFL), a score of 230 on the
      Test of Spoken English (TWE) and a rating of 4.0 on the Test of Written English (TWE).
      (Additional coursework in composition may be required.)
   b. A score of 77 on the Michigan English Language Ability Battery (MELAB) and a rating of at least
      3.0 on the oral interview portion of the MELAB. (Additional coursework in composition may be
      required).

4. Statement of intent: a one-page statement focusing on the applicant’s motivation and rationale for seeking
admission to the program as well as his or her background and goals related to professional studies.

5. Résumé: a focused, one-page summary of program-relevant, educational, career and/or life experiences.

6. A minimum of two (2) years of documented work experience, the majority of which involves working with
school-aged children or adolescents (ages 5-18). This experience may consist of paid, professional roles or
structured volunteer experiences in organized work settings and should be focused on improving the mental
health, behavior, academic success or social skills of the children. Activities such as parenting, babysitting
and day care do not qualify.

7. Three recommendations: These must be completed on recommendation forms available from the department.
They should be completed by professionals with knowledge of the applicant’s suitability for graduate work
and suitability to the profession of school counseling (e.g., supervisors, undergraduate professors).

Required Courses: 12-30 hours

- COUN 612 - The School Counselor Credit Hours: 2 hrs
- COUN 650 - Organization and Administration of School Counseling Services Credit Hours: 2 hrs
- COUN 651 - Counseling with Children Credit Hours: 3 hrs
- COUN 696 - Ethical, Legal and Professional Issues in School Counseling Credit Hours: 2 hrs
- COUN 786 - The Counseling Internship Credit Hours: 2 hrs
- COUN 787 - The Counseling Internship Credit Hours: 3 hrs
- COUN 788 - The Counseling Internship Credit Hours: 4 hrs

Graduate Prerequisites: 0-9 hours

If the student has not already completed the following coursework, the following classes must also be taken as part of
this post-master's certificate program.

- COUN 508 - Theories of Counseling Credit Hours: 3 hrs
- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- COUN 622 - Diagnosis and Treatment Planning in Counseling Credit Hours: 3 hrs

Undergraduate Prerequisites: 0-9 hours

If the student has not already completed the following coursework as an undergraduate, the following classes must also
be taken within the first 12 hours of this post-master's certificate program. The student may enroll for graduate or
undergraduate courses to meet this requirement.

- Social science elective course to be approved by an adviser, 3 hours
- EDPS 600 - Human Development Credit Hours: 2 hrs

Choose one course from the following:

- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs
- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs
Elective Courses

Four hours of elective courses to be chosen in consultation with an adviser.
Program Total 12-30 hours

Notes:

*For candidates who have already completed a 600-hour internship as part of their previous master’s degree, only 300 hours of internship in a school setting will be required.

Changes in the student’s official program and substitution of courses must be approved by the adviser prior to registration.

Post-Master’s K-12 Basic Administration Certificate

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The State of Michigan K-12 School Administrator Certification is a state-supported post-master's professional development option for prospective and current educators who seek enhanced training in school and/or district leadership, management and instruction. This voluntary credential, reinstated by legislative approval in August 2006, coincides with an ongoing process of Michigan state certification available through post-secondary institutions (including Eastern Michigan University) for the Basic (Initial) Certificate in K-12 Administration (school/assistant principal licensure).

The Basic Certificate in K-12 Administration may also be earned as part of the Master's Degree Program in Educational Leadership at Eastern Michigan University.

Admission Requirements

1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have completed a master’s degree from an accredited University with a minimum GPA of 3.3 on a 4.0 scale.
3. Foreign students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 (total) or the Michigan English Language Ability Battery (MELAB) of 77.
4. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office. Recommendation forms are due with the Application for Graduate Admissions form.
5. Applicants must present evidence of a valid teaching certificate or sign a waiver indicating that they do not seek certification.
6. Applicants must submit a résumé that details their professional and educational experiences.
7. On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

Admission Process

The admission process for the post-master's certificate is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain the required GPAs, confidential appraisal forms and the résumé will be forwarded to the coordinator of advising for the educational leadership program.
2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, test scores, goal statements and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed
“questionable” due to a combination of low GPA, low test scores, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.

3. These applications will be reviewed by the full faculty, giving special consideration to the student’s life experiences, verbal skills, writing skills, educational background, and GPAs.

4. Those applications which are accepted will be notified.

5. All decisions by the faculty regarding admissions are final.

For more information about the program, admissions, etc., contact the department head or visit www.emich.edu/coe/lc.

Required Courses: 18 hours

Minimum of 18 credit hours compiled from the following list. Courses must have program advisor approval prior to the beginning of the program.

- EDLD 509 - Educational Leadership in a Pluralistic Society Credit Hours: 3 hrs
- EDLD 513 - Community Education and Community Relations Credit Hours: 3 hrs
- EDLD 514 - Organization and Administration of K-12 Schools Credit Hours: 3 hrs
- EDLD 515 - Instructional Leadership Credit Hours: 3 hrs
- EDLD 517 - Leadership for School Improvement Credit Hours: 3 hrs
- EDLD 612 - Economics of Public Education Credit Hours: 3 hrs
- EDLD 617 - Administering Human Resources in Education Credit Hours: 3 hrs
- EDLD 620 - The Principalship Credit Hours: 3 hrs
- EDLD 630 - Legal, Ethical and Professional Issues of Administration Credit Hours: 3 hrs
- EDLD 687 - Master’s Internship in Educational Leadership Credit Hours: 2 hrs

Certificate Total: 18 hours

Specialist

Specialist of Arts in Educational Leadership (EDL)

Adviser: Elizabeth Broughton, PhD.
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Model
Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society.

Admission Requirements

1. Applicants must meet the admission requirements of the Graduate School.
2. Applicants must have completed a master’s degree from an accredited University with a minimum GPA of 3.3 on a 4.0 scale.
3. Foreign students must submit scores on the Test of English as a Foreign Language (TOEFL) of 550 (total) or the Michigan English Language Ability Battery (MELAB) of 77.
4. Applicants must submit confidential appraisal forms from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work. Applicants may receive these forms from the department office. Recommendation forms are due with the Application for Graduate Admissions form.
5. Applicants must present evidence of a valid teaching certificate or sign a waiver indicating that they do not seek certification.
6. Applicants must submit a résumé that details their professional and educational experiences.
On the graduate application, students must complete the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

Admission Process
The admission process for the specialist’s degree is as follows:

1. The Office of Admissions will receive and gather all required documents. Completed applications that contain the required GPAs, confidential appraisal forms and the résumé will be forwarded to the coordinator of advising for the educational leadership program.
2. Completed applications will be reviewed by the faculty review committee. Those applications that include acceptable GPAs, the résumé, recommendations, test scores, goal statements and confidential appraisal forms will be admitted, assigned an adviser and invited for an advising interview. Applications may be deemed “questionable” due to a combination of low GPA, low test scores, fair or poor recommendations, poor writing ability and/or statements that are inconsistent with the student’s goals as an administrator.
3. These applications will be reviewed by the full faculty, giving special consideration to the student’s life experiences, verbal skills, writing skills, educational background, and GPAs.
4. Those applications which are accepted will be notified.
5. All decisions by the faculty regarding admissions are final.

Retention Review Requirements
A retention review will be conducted by the faculty review committee and coordinated by the EDLD coordinator of advising. Students who have not met the following criteria will be identified and asked to meet with their academic advisers. Students must have:

1. A minimum GPA of at least 3.3 in required educational leadership courses; and
2. An overall academic skills assessment of average, or above, in any educational leadership class.

Retention Process
The objective of this retention plan is to assure that students have an opportunity to review the appropriateness of their career choice and to receive assistance in achieving their specialist in arts degree in educational leadership should they choose to continue in the field. The retention review will be conducted by the EDLD coordinator of advising with the faculty review committee.

1. The Leadership Candidate Evaluation form may be completed for any student in any class, if they choose to do so. These forms will be filed in the student’s folder.
2. The EDLD coordinator of advising will examine the files of all students who did not achieve the required GPA and recommend review by the faculty review committee.
3. The folders, with the evaluation forms for this group of students, will then be reviewed by the faculty review committee. If the committee agrees that the record of each student indicates performance below graduate or program standards, the student and his or her adviser will be notified in writing.
4. The EDLD coordinator of advising will send a letter to each identified student requesting him or her to meet with his or her adviser to discuss career goals and the need for assistance. If the need for assistance is established, a plan will be developed. For example, if difficulties exist with skill or concept acquisition, the student may be required to audit a class.

Culminating Experience
The culminating experience for the specialist’s degree will be the student’s field-based research study and presentation of the student’s internship experiences as set forth in his or her written log. The culminating experience will be conducted by the instructor of the intern program and the director of the field-based research study.

Field-Based Research
Field-based research, EDLD 713, is available to specialist degree students winter or summer term only. Students are encouraged to contact the department at least one semester prior to registration for the class to reserve a place in the class.

Curriculum
The specialist’s degree program requires a minimum of 32 hours beyond the master’s degree. Students work closely with their advisers in developing programs that will prepare them for their career goals.

Candidates for the specialist’s degree in educational leadership must satisfactorily complete all work on the program of study and achieve an overall GPA of 3.3 (B+).

The requirements outlined below provide the basic guidelines with in which the student’s program is developed.

**Concentration Area Courses: 18 hours**

- 9 hours in consultation with an adviser.
- EDLD 625 - The Superintendency and District Level Leadership Credit Hours: 3 hrs
- EDLD 710 - Leadership Theory Credit Hours: 3 hrs
- EDLD 740 - Organizational Theory Credit Hours: 3 hrs

**Applied Research Courses: 8 hours**

- EDLD 713 - Field-Based Research Credit Hours: 4 hrs
- EDLD 787 - Internship in Educational Administration Credit Hours: 2 hrs
- EDLD 789 - Internship in Educational Administration Credit Hours: 4 hrs
- EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs

**Cognate Courses: 6 hours**

Six hours selected from either educational leadership or other areas in consultation with the adviser.

Program Total: 32 hours

**Note:**

*Additional coursework is required if students wish to fulfill the standards for an approved program for the principalship and central office administration.*
Special Education Programs

Special Education

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Web site: www.emich.edu/coe/sped

The curricula within the Department of Special Education have been revised. All students are required to meet with their program area faculty adviser before registering to verify enrollment in appropriate course work.

The Department of Special Education at Eastern Michigan University offers graduate programs leading to a specialist of arts degree, a master of arts degree and/or state endorsement/approval in most fields of specialization in special education. With adviser approval, persons participating in these programs may utilize a variety of approaches and experiences in fulfilling the needed requirements. These avenues of learning may include course work, field studies, workshops, independent study, internships, practical, seminars and/or research projects.

Graduate study in the Department of Special Education includes the following program options:

1. Nondegree graduate study for certified teachers seeking initial or additional special education endorsements and/or approvals. Students must be admitted to Eastern Michigan University and the Department of Special Education to pursue endorsement/approval sequences.

2. Master of arts degree in special education with teacher certification (SEM-T) students seeking both teacher certification and a special education endorsement. Students must be admitted to Eastern Michigan University and to the Department of Special Education.

3. Master of arts degree in special education with an endorsement or a program in:
   - Emotional impairment
   - Cognitive impairment
   - Physical impairment and other health impairment
   - Visual impairment
   - Hearing impairment
   - Special education — general

4. Master of Arts degree in Autism

5. Master of arts degree in learning disabilities (available only to certified teachers as well as teachers with certification and initial endorsement in special education);

6. Master of arts degree in speech/language pathology;

7. Specialist of arts degree in special education, with emphasis in either special education administration or curriculum/assistive technology development.

Mission

The mission of the Department of Special Education is to create an exemplary educational environment to facilitate the acquisition of knowledge and skills and to encourage the intellectual curiosity and creativity of its students. Students will be prepared as professionals who deliver habilitative/rehabilitative service to persons with special needs and their families. Graduates of the Department of Special Education will provide leadership for the profession in the 21st century.

Objectives
The objectives for the student are:
1. To develop a humane, comprehensive, viable and scientifically defensible philosophical foundation that will guide personal and professional behavior;
2. To extend and refine knowledge of disabilities and to apply this new knowledge base to understanding more fully the implications of disabilities on individuals, their families and society;
3. To improve existing skills and to acquire new skills in the identification, diagnosis and use of prescriptive teaching methods associated with various disabilities;
4. To understand, compare, analyze and synthesize a variety of therapeutic, curricular and continuum of service models, instructional systems and theoretical constructs used in the care and treatment of persons with disabilities;
5. To acquire a working knowledge of the way philosophical positions, psychosocial and cultural factors, economic events, legal mandates and political forces impinge upon and shape benefits, rights, services and programs for persons with disabilities;
6. To become proficient in spoken and written communication and be able to adapt to appropriate levels in student, parent and professional communication;
7. To acquire the knowledge, reflective decision-making ability and other skills necessary to perform in a variety of leadership, administrative and supervisory roles in providing services and programs for persons with disabilities; and
8. To understand, conduct and use research for problem solving and professional growth.

Courses of General Interest
In addition to the more specific courses that are offered for special education majors, the graduate program offers a number of general courses that are open to regular classroom teachers and other nonmajors. These courses are designed to provide students with a better understanding of the student with unique learning needs in any classroom setting.

Dismissal from Program Policy
A student may be subject to dismissal from graduate endorsement or degree programs in this department if the student:

1. Does not maintain a 3.0 (B) cumulative GPA overall and in special education courses (graduate and undergraduate) for two successive enrollment periods;
2. Does not demonstrate by performance reasonable aptitude, maturity, stability, skill and understanding necessary for success in the professional field of special education; and
3. Does not demonstrate by performance the ability to build adequate interpersonal and professional relationships.

A student identified as being at risk for dismissal from the endorsement or degree programs will have the opportunity to meet with faculty in the program area to develop a plan for correction of any deficiency. The opportunity to correct deficiencies usually will not be extended beyond two enrollment periods.

The continuance or termination decision will be made by the faculty in the program area. Students may request a meeting with the faculty to apprise them of extenuating circumstances. The decision of the faculty will be final. The decision will be transmitted to the student in writing by the Department Head. If the student is dismissed from the department’s program, the Office of Graduate Studies and Research will be notified to change the student’s admission status from degree admission status to that of nondegree status.

Special Education Programs and Courses

Master’s

Master of Arts in Autism Spectrum Disorders

Students accepted into the graduate program in autism spectrum disorders may elect a teaching endorsement and a master of arts degree. The autism spectrum disorders endorsement is K-12.
Model
Eastern Michigan University’s advanced professional education programs support inquiry, advocacy and leadership in education for a diverse and democratic society. In addition, the master’s-level programs in the Department of Special Education produce professionals with the comprehensive knowledge, skills and attitudes to deliver a continuum of habilitative/rehabilitative services to persons with special needs, and to their families, within a diverse society.

Admission Requirements
The graduate student seeking admission to a master of arts in autism spectrum disorders in the Department of Special Education is required to:

1. Possess valid Michigan teacher certification;
2. Earned endorsement in Special Education;
3. Submit two letters of recommendation to include: one letter verifying professional competence and one letter from a faculty member or other person knowledgeable of candidate’s academic competence;
4. Achieve acceptable scores on the Graduate Record Examination;
5. Have a successful personal interview, if requested, with an as signed adviser;
6. Submit a personal statement of purpose, describing why the applicant would like to pursue graduate studies in the area of learning disabilities and how he/she hopes to benefit from these studies; and
7. International students must provide a score of 90 on the Michigan English Language Assessment Battery (MELAB).

Program Requirements
The graduate student seeking a master of arts degree in autism spectrum disorders through the Department of Special Education must:

1. Successfully complete a minimum of 39 hours of approved graduate credit as outlined on an approved master’s degree program that has been planned with a program adviser;
2. Successfully complete an approved master’s degree program that has been planned with a special education graduate adviser;
3. Successfully complete a supervised practicum experience;
4. Successfully complete the degree requirements with in six years of enrolling for the first class applicable to the degree program; and
5. Meet all other requirements of the Graduate School.

Exit Requirements
Exit criteria include demonstration of acceptable levels of performance in the following areas:

1. Ability to carry out suitable procedures for assessment of listening, thinking, talking, reading, spelling, writing, mathematics or other skill deficiencies;
2. Ability to specify in behavioral terms instructional objectives that are appropriate to the skill needs and entry-level characteristics of the individual student;
3. Ability to set up and maintain conditions and procedures of instruction suitable to the learning goals set for the individual student;
4. Ability to assess instructional outcomes in terms of the student’s behavior change and use this data in the formulation of an on going instructional plan adjusted to changed student conditions;
5. Ability to use appropriate techniques with the student to help develop the self-management skills required for constructive social participation and independent learning; and
6. Ability to function as a member of interdisciplinary teams and maintain effective liaison with parents and others working with the student.

Acceptable levels will be determined by course grades, GPA, practicum evaluations and performance in research courses.

Required Courses: 39 hours

Core Courses: 12 hours

- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPGN 621 - Law and Public Policy for Individuals with Disabilities Credit Hours: 3 hrs
- SPGN 632 - Models and Skills for Special and General Education Collaboration Credit Hours: 2 hrs
• SPLI 678 - Assessment and Advanced Diagnostic Prescriptive Programming for Students with Learning Disabilities Credit Hours: 4 hrs
  Methodology Courses: 6 hours

• SPAI 645 - Curriculum and Instructional Strategies in ASD Credit Hours: 3 hrs
• SPAI 650 - Visual Supports and Literacy in ASD Credit Hours: 3 hrs
  Research Courses: 9 hours

• SPAI 630 - Issues in Assessment and Interventions in Autism Spectrum Disorders (ASD) Credit Hours: 3 hrs
• SPAI 640 - Principles of Positive Behavioral Supports (PBS) for Students with ASD in Universal Design for Learning (UDL) Credit Hours: 3 hrs
• SPGN 699 - Independent Study Credit Hours: 3 hrs
  Concentration Courses: 12 hours

• SPAI 620 - Dimensions of Autism Spectrum Disorders (ASD) Credit Hours: 3 hrs
• SPAI 635 - Language and Communication in Autism Spectrum Disorders (ASD Credit Hours: 3 hrs
• SPAI 660 - ASD and the Sensory Process Credit Hours: 2 hrs
• SPGN 586 - Practicum in Special Education Credit Hours: 4 hrs

Program Total: 39 hours

Master of Arts in Learning Disabilities (LD)

Students accepted into the graduate program in learning disabilities may elect a teaching endorsement and a master of arts degree. The learning disability endorsement is K-12.

Model
Eastern Michigan University’s advanced professional education programs support inquiry, advocacy and leadership in education for a diverse and democratic society. In addition, the master’s-level programs in the Department of Special Education produce professionals with the comprehensive knowledge, skills and attitudes to deliver a continuum of habilitative/rehabilitative services to persons with special needs, and to their families, within a diverse society.

Admission Requirements
The graduate student seeking admission to a master of arts in learning disabilities in the Department of Special Education is required to:
1. Possess valid Michigan teacher certification;
2. Submit two letters of recommendation to include: one letter verifying professional competence and one letter from a faculty member or other person knowledgeable of candidate’s academic competence;
3. Achieve acceptable scores on the Graduate Record Examination;
4. Have a successful personal interview, if requested, with an assigned adviser;
5. Submit a personal statement of purpose, describing why the applicant would like to pursue graduate studies in the area of learning disabilities and how he/she hopes to benefit from these studies; and
6. (International students must) provide a score of 90 on the Michigan English Language Assessment Battery (MELAB).

Program Requirements
The graduate student seeking a master of arts degree in learning disabilities through the Department of Special Education must:
1. Successfully complete a minimum of 37 hours of approved graduate credit as outlined on an approved master’s degree program that has been planned with a program adviser;
2. Successfully complete an approved master’s degree program that has been planned with a special education graduate adviser;
3. Successfully complete a competency examination at 90 percent or better.
4. Have on file with an adviser two evaluations of teaching effectiveness/professional competence. These evaluations are to be completed by supervisors/administrators in public or private schools at the conclusion of the internship experience;
5. Successfully complete a supervised practicum experience;
6. Successfully complete the degree requirements with in six years of enrolling for the first class applicable to the degree program; and
7. Meet all other requirements of the Graduate School.

Exit Requirements

Exit criteria include demonstration of acceptable levels of performance in the following areas:

1. Ability to carry out suitable procedures for assessment of listening, thinking, talking, reading, spelling, writing, mathematics or other skill deficiencies;
2. Ability to specify in behavioral terms instructional objectives that are appropriate to the skill needs and entry-level characteristics of the individual student;
3. Ability to set up and maintain conditions and procedures of instruction suitable to the learning goals set for the individual student;
4. Ability to assess instructional outcomes in terms of the student’s behavior change and use this data in the formulation of an on going instructional plan adjusted to changed student conditions;
5. Ability to use appropriate techniques with the student to help develop the self-management skills required for constructive social participation and independent learning; and
6. Ability to function as a member of interdisciplinary teams and maintain effective liaison with parents and others working with the student.

Acceptable levels will be determined by course grades, GPA, competency examination, practicum evaluations and performance in research colloquium, including production at the end of practicum of a comprehensive written document which demonstrates the understanding, synthesis of knowledge and the practical applications of diagnostic-prescriptive planning for K-12 students with disabilities. This product is considered a culminating activity for the degree program.

Track A:

Graduate students who have earned a teaching certificate and an initial endorsement in an area of special education will be required to meet current admission standards which include:

- Acceptable scores on the Graduate Record Examination;
- A 2.5 undergraduate GPA;
- A valid Michigan teaching certificate;
- An endorsement in an area of Special Education;
- Two letters of recommendation;
- A personal statement of purpose; and
- Other Office of Graduate Studies and Research requirements as outlined in the catalog.

Upon completion of the program, students in this track will have earned a M.A. degree and an endorsement in learning disabilities.

Coursework for students in Track A consists of a minimum of 37 hours of core courses, methods courses, learning disability-specific courses and electives.

Core Courses: 11 hours

- SPGN 525 - Classroom Management and the Development of Social Competence in Students with Special Needs Credit Hours: 2 hrs
- SPGN 621 - Law and Public Policy for Individuals with Disabilities Credit Hours: 3 hrs
- SPGN 632 - Models and Skills for Special and General Education Collaboration Credit Hours: 2 hrs
- SPLI 678 - Assessment and Advanced Diagnostic Prescriptive Programming for Students with Learning Disabilities Credit Hours: 4 hrs

Methods Courses: 6 hours

- SPGN 630 - Integrated Curriculum in Special Education: Math and Motor Skills Development Credit Hours: 3 hrs
- SPLI 672 - Integrated Curriculum in Special Education: Linguistics and Language Arts Credit Hours: 3 hrs
Learning Disability Concentration: 6 hours

- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
- SPLI 693 - Learning Disabilities Practicum Credit Hours: 4 hrs

Research: 5 hours

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- SPLI 712 - Research Colloquium: Learning Disabilities Credit Hours: 2 hrs

Electives: 9 hours

- Graduate courses approved by assigned adviser

Program Total: Minimum of 37 hours

Undergraduate Courses for Graduate Credit: Special Education

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
- SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4 hrs
- SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPHN 491 - Special Education Student Teaching and Seminar Credit Hours: 2 hrs
- SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
- SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
- SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
- SPPI 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs
- SPSI 452 - Voice Credit Hours: 3 hrs
- SPSI 454 - Stuttering Credit Hours: 3 hrs
- SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
- SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
- SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
- SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs

Track B

Graduate students with a teaching certificate, but no special education endorsement, will be admissible to the learning disabilities program if they meet the same requirements for admission as delineated in Track A, with the exception of the requirement for an initial endorsement in a special education area.

Upon completion of the program, students in this track will have earned a M.A. degree and an endorsement in learning disabilities.

Coursework for students in Track B consists of 15 hours of endorsement, plus 28 hours of core courses, methods area and research and learning disability courses. The total hours required for the degree is approximately 38. However, it varies from student to student.
Core Courses: 11 hours

- SPGN 525 - Classroom Management and the Development of Social Competence in Students with Special Needs Credit Hours: 2 hrs
- SPGN 621 - Law and Public Policy for Individuals with Disabilities Credit Hours: 3 hrs
- SPGN 632 - Models and Skills for Special and General Education Collaboration Credit Hours: 2 hrs
- SPLI 678 - Assessment and Advanced Diagnostic Prescriptive Programming for Students with Learning Disabilities Credit Hours: 4 hrs

Methods Courses: 6 hours

- SPGN 630 - Integrated Curriculum in Special Education: Math and Motor Skills Development Credit Hours: 3 hrs
- SPLI 672 - Integrated Curriculum in Special Education: Linguistics and Language Arts Credit Hours: 3 hrs

Learning Disability Concentration: 6 hours

- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
- SPLI 693 - Learning Disabilities Practicum Credit Hours: 4 hrs

Research: 5 hours

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- SPLI 712 - Research Colloquium: Learning Disabilities Credit Hours: 2 hrs

Endorsement: 15 hours

- SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs

Program Total: Minimum of 37 hours

Notes:

*Must be taken for graduate credit.

**The credit hours earned taking this course will show up on the student transcript, however, since this is a prerequisite for one of the required graduate courses these credits will not be included in the required hours needed to complete this program.

Master of Arts in Special Education

The Department of Special Education offers a Master of Arts Degree that encompasses the range and depth required to accommodate contemporary programs and service delivery systems. The program is designed to allow maximum flexibility in meeting the needs of individual students while maintaining the basic academic integrity implicit in a graduate program.

Model

Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society. In addition, the master’s-level programs in the Department of Special Education produce professionals with the comprehensive knowledge, skills and attitudes to deliver a continuum of habilitative/rehabilitative services to persons with special needs, and to their families, within a diverse society.
Admission Requirements

The graduate student seeking admission to the master of arts degree program in the Special Education Department is required to:

1. Meet the Graduate School admission requirements;
2. Have a valid teaching certificate and provide a copy; (Students who do not have a teaching certificate must complete requirements as outlined in the SEM-T program, described in the following section.)
3. Achieve acceptable scores on the Graduate Record Examination as required by the Department of Special Education;
4. Submit two outside letters of recommendation regarding professional competence for admission to the program;
5. Be recommended for acceptance by a faculty member (this may involve a personal interview); and
6. (International students must) provide a score of 90 on the Michigan English Language Assessment Battery (MELAB).

Admissions and program requirements for Master of Arts programs in Autism, Learning Disabilities and Speech-Language Pathology are described separately in other sections.

Program Requirements

The graduate student seeking a Master of Arts degree through the Department of Special Education must:

1. Complete a minimum of 33 to 37 hours of approved graduate credit with a minimum 3.0 GPA;
2. Complete an approved master’s degree program that has been planned with a special education graduate adviser;
3. Complete the degree requirements within six years of enrolling for the first course applicable to the degree program;
4. Receive a recommendation from the area faculty committee for continuance in the program. This is done upon completion of 12 to 15 hours of courses, and before internship/practicum. The committee will consider GPA, faculty recommendations, demonstrated competence in academic and professional work, and rate of progress in the program.
5. Meet all other requirements of the Graduate School.

Exit Criteria

Exit criteria involve achievement of the objectives for graduate study in special education listed previously, as demonstrated by:

1. Successful completion of all course work on program (minimum GPA of 3.0);
2. Successful completion of required practical/internship; and
3. Successful completion of thesis, if pursuing the thesis option, or other culminating experience, which may include but not be limited to comprehensive oral or written examination, portfolio or other product, performance or exhibit.

Special Education Graduate Core Courses: 11 Hours

- SPGN 525 - Classroom Management and the Development of Social Competence in Students with Special Needs Credit Hours: 2 hrs
- SPGN 621 - Law and Public Policy for Individuals with Disabilities Credit Hours: 3 hrs
- SPGN 632 - Models and Skills for Special and General Education Collaboration Credit Hours: 2 hrs
- SPLI 678 - Assessment and Advanced Diagnostic Prescriptive Programming for Students with Learning Disabilities Credit Hours: 4 hrs

Methods Courses: 6 hours

- SPGN 630 - Integrated Curriculum in Special Education: Math and Motor Skills Development Credit Hours: 3 hrs
- SPLI 672 - Integrated Curriculum in Special Education: Linguistics and Language Arts Credit Hours: 3 hrs

Research: 9 hours

Select from either option I or option II:

Option I: Independent Study:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
• SPGN 699 - Independent Study Credit Hours: 3 hrs

One course from the following:

• SPEI 694 - Seminar: Students with Emotional Impairment Credit Hours: 3 hrs
• SPGN 694 - Seminar: Interdisciplinary Special Education Credit Hours: 3 hrs

Option II: Thesis option

• SPGN 592 - Special Topics Credit Hours: 3 hrs

One course from the following:

• EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs
• EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
• PSY 600 - Psychological Statistics I Credit Hours: 3 hrs

Concentration: 22-44 hours

Program Total: 33-37 hours

Programs within the department of Special Education include Emotional Impairment, Cognitive Impairment, Physical Impairment and other Health Impairment, Visual Impairment, Hearing Impairment and General Special Education (this last program does not result in any special education endorsement from the state of Michigan). If endorsement in any area of special education is being sought, the appropriate endorsement sequence must be completed.

Students choosing to complete an independent study as part of the master of arts program must complete EDPS 667, SPGN/SPEI 694 and SPGN 699. Students may elect to write a thesis as part of the master of arts program. If pursuing the thesis option, students must complete cognates EDPS667 Principles of Educational Research (3 hrs), PSY600 Psychological Statistics I (3 hrs), or EDPS621 Statistical Applications in Educational Research (3 hrs). Additionally, students must complete SPGN/SPEI 694 (3 hrs) and SPGN692 Master’s Thesis (3 hrs).

Undergraduate Courses for Graduate Credit: Special Education

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
• SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4 hrs
• SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
• SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
• SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
• SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
• SPGN 491 - Special Education Student Teaching and Seminar Credit Hours: 2 hrs
• SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
• SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
• SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
• SPPF 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
• SPPF 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs
• SPSI 452 - Voice Credit Hours: 3 hrs
• SPSI 454 - Stuttering Credit Hours: 3 hrs
• SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
• SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
• SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
• SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs

Master of Arts in Speech-Language Pathology (SPLP)

Students who enter the graduate program in Speech-language Pathology are trained to work in a variety of settings with children and adults. Students seeking Teacher Certification in addition to the Master's degree should see a graduate adviser for additional teacher certification requirements. Those who do not have undergraduate degrees in Speech-Language Pathology must complete the undergraduate deficiencies. Students must consult a graduate adviser in Speech-Language pathology before enrolling in major courses. Admission to this program is competitive.

Model

Eastern Michigan University's advanced professional education programs develop leaders who demonstrate reflective thought and scholarship with in the context diverse society. In addition, the master’s-level programs in the Department of Special Education produce professionals with the comprehensive knowledge, skills and attitudes to deliver a continuum of habilitative/rehabilitative services to persons with special needs, and to their families, with in a diverse society.

Admission Requirements

All students applying to the speech-language pathology master's program must:
1. Have a minimum 3.0 GPA in the undergraduate major, and an overall GPA of 3.0;
2. Submit two letters of recommendation from faculty in the undergraduate major areas of study and/or a clinical supervisor. For those students without an undergraduate major in speech-language pathology, letters may be submitted from a professor in the undergraduate major and/or from a professional employer;
3. Submit acceptable Graduate Record Examination (GRE) scores. Contact the speech-language pathology program coordinator for current score requirements or visit the program web site at www.emich.edu/coe/sped/slp/index.html;
4. Complete an on-line application which requires (a) a personal statement and (b) the "Disciplinary Form" at www.emich.edu/admissions/forms_library/general_all_students/disciplinary.pdf. This is a requirement of the College of Education and should be completed even if the student is not seeking teaching endorsement;
5. Complete and pass the MTTC Basic Skills Test; see www.mttc.nesinc.com for additional information. This may be postponed until after the applicant has been admitted to the program. All students admitted to the graduate program must take this test, even those not seeking teacher endorsement, since it is a requirement for the College of Education.

International students applying to the speech-language pathology master's program must also: submit acceptable scores on the Test of English as a Foreign Language (TOEFL iBT) and/or the International English Language Testing System (IELTS) demonstrating adequate English proficiency. Contact the speech-language pathology program coordinator for current score requirements or visit the program web site at www.emich.edu/coe/sped/slp/index.html.

Program Requirements

The program requirements for attaining a master’s degree in Speech-Language Pathology differ in some aspects from those of the Graduate School in that:
1. Only six hours of graduate transfer credit will be accepted;
2. All candidates must meet the clinical and academic requirements for certification of the American Speech-Language-Hearing Association (ASHA) prior to receiving their degrees;
3. All candidates must complete a minimum of 48 hours of approved graduate credit. Only 6 hours of transfer credit may be counted toward the 48 hours, with adviser approval;
4. All candidates must pass major courses with a grade of B- or better and clinical courses with a B or better;
5. All candidates must be recommended by the Speech-Language Pathology faculty for continuance in the program. This is to be done upon completion of 12-15 hours of course work in the program. The committee will consider GPA, faculty recommendations and demonstrated competence in academic and clinical work. Students must demonstrate behaviors that indicate stability, maturity, understanding and aptitude as judged necessary for predicted success as a speech-language pathologist.
Exit Criteria
To be eligible for graduation and receipt of the Master’s degree, the student must:

1. Complete a capstone experience in SPSI694 Professional Issues in Speech-Language Pathology in their last semester in the program;
2. Complete required course work, clinical practica and internships as described;
3. Submit a completed ASHA application to the adviser;
4. Submit copies of all clinical practica logs to the adviser.

Admission Requirements

1. The student applying for an endorsement in specific special education areas must meet the admissions requirements specified under the Master of Arts degree.
2. Student must submit documentation of passing scores on the Michigan Test of Teacher Certification (MTTC-Basic Skills).
3. Students must be admitted to the Department of Special Education prior to taking 400- and graduate-level requirements.

Curriculum

The following courses are offered to students for completion of the master’s degree program and are considered to be a standard program of study. Students who transfer from other universities should consult their academic adviser concerning equivalencies.

Required Courses in Speech-Language Pathology: 48 hours

- SPSI 508 - Multicultural Issues in Intervention for Communication Disorders Credit Hours: 2 hrs
- SPSI 516 - Introduction to Graduate Study in Speech-Language Pathology Credit Hours: 3 hrs
- SPSI 528 - Clinical Practice in Speech-Language Pathology I Credit Hours: 2 hrs
- SPSI 538 - Clinical Practicum in Speech-Language Pathology II Credit Hours: 2 hrs
- SPSI 555 - Neuroanatomy and Physiology for the Speech-Language Pathologist Credit Hours: 2 hrs
- SPSI 568 - Diagnostic Methods: Assessment of Speech and Language Disorders in Children Credit Hours: 3 hrs
- SPSI 578 - Diagnosis and Treatment of Audiometric Disorders Credit Hours: 3 hrs
- SPSI 607 - Early Intervention for Speech and Language Impaired Children Credit Hours: 3 hrs
- SPSI 612 - Motor Speech Disorders Credit Hours: 2 hrs
- SPSI 614 - Aphasia Credit Hours: 3 hrs
- SPSI 618 - Language Disorders in School-Age Children Credit Hours: 3 hrs
- SPSI 620 - Consulting and Interviewing in Speech Pathology Credit Hours: 2 hrs
- SPSI 622 - Augmentative Communication Credit Hours: 3 hrs
- SPSI 624 - Acquired Neurogenic Cognitive-Communication Disorders Credit Hours: 3 hrs
- SPSI 625 - Dysphagia Credit Hours: 2 hrs
- SPSI 687 - Clinical Internship in Speech-Language Pathology I Credit Hours: 4 hrs
- SPSI 688 - Clinical Internship in Speech-Language Pathology II Credit Hours: 4 hrs
- SPSI 689 - Public School Internship in Speech-Language Pathology Credit Hours: 4 hrs
- SPSI 694 - Professional Issues in Speech-Language Pathology Credit Hours: 2 hrs

Program Total: 48

Curriculum

Courses Required for a Teaching Subject Major/Minor

Students may elect to pursue teaching certification; however, this is optional. Students choosing to do so must complete a teaching subject major or minor (20 to 24 hours). See the undergraduate catalog for approved minors. Note: This is a requirement if the student has not already completed a major or minor appropriate to the level of certificate sought during completion of the bachelor’s degree.

Courses required for teacher certification: 10 hours
• EDUC 499 - Student Teaching (regular education) Credit Hours: 6 hrs

Elementary: 16-17 hours

• CURR 304 - Curriculum and Methods: Elementary Credit Hours: 3 hrs
• RDN 300 - Early Literacy Credit Hours: 3 hrs
• RDN 310 - Literacy Across the Curriculum in the Intermediate Grades Credit Hours: 3 hrs
• MATH 581 - Modern Mathematics Methods, K-6 Credit Hours: 2 hrs

One course from the following:

• GEOG 348 - Teaching Social Studies in Elementary Schools Credit Hours: 3 hrs
• GEOG 571 - Teaching of Social Studies Credit Hours: 2 hrs

Secondary: 9 hours

• Methods course in teaching subject area (3 hrs)
• CURR 305 - Curriculum and Methods: Secondary Credit Hours: 3 hrs
• RDN 311 - Teaching Reading in the Secondary School Credit Hours: 3 hrs

Courses Required for Endorsement:

Students must complete all special education core courses and course requirements for the specific program area (HI, EI, CI, POHI or VI) as listed in the following section regarding endorsement.

Courses in General Education:

Undergraduate transcripts will be reviewed to determine completion of hours to be credited toward meeting a required 40 hours of general or liberal education. Additional course work may be necessary to meet this 40-hour requirement.

Endorsement/Approval Sequence

Certified teachers wishing to qualify for teaching in an area of special education may enroll in an endorsement sequence at the graduate level. (Those seeking both teacher certification and endorsement see the “Special Education Master’s Program with Teacher Certification (SEM-T)” section, which follows.) The first endorsement sequence for a teacher holding non-special education teaching credentials includes a combination of graduate and undergraduate courses. The completion of the endorsement sequence will permit a student to teach in a specific area of disability in grades K-12. Each endorsement sequence accommodates the requirements established by the Michigan Department of Education.

Endorsements are available for Teachers of Students with Emotional Impairment, Teachers of Students with Cognitive Impairment, Teachers of Students with Hearing Impairment, Teachers of Students with Physical Impairment and Other Health Impairment, and Teachers of Students with Visual Impairment. Endorsements are also available in the areas of Learning Disabilities (see program description), and Speech and Language Pathology, only as part of a master’s degree program.

Approval sequences are available in the areas of Supervisor of Special Education and Director of Special Education, and for Teachers of Physical Education for Students with Disabilities as well as Early Childhood Special Education Teachers. Course work in other departments (Educational Leadership; Teacher Education) is typically involved in completing these sequences.

Students must be free from any probation, administrative or academic, before an internship or practicum experience is approved. It is important for students to realize that the endorsement/approval sequence is independent of a degree program. The minimum degree requirements do not guarantee endorsement/approval, and the meeting of endorsement standards should not be construed as the completion of degree requirements.

Nine hours of approved 400-level courses may be upgraded and credited toward a master’s degree with adviser approval; otherwise, all undergraduate courses listed in endorsement sequences are considered undergraduate deficiencies are not credited toward graduate degrees.
Undergraduate Courses for Graduate Credit: Special Education

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
• SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4 hrs
• SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
• SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
• SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
• SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
• SPGN 491 - Special Education Student Teaching and Seminar Credit Hours: 2 hrs
• SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
• SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
• SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
• SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
• SPPI 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs
• SPSI 452 - Voice Credit Hours: 3 hrs
• SPSI 454 - Stuttering Credit Hours: 3 hrs
• SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
• SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
• SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
• SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs

Note:

*Students complete only two of three internships, either SPSI 687 and 688 OR SPSI 687 and 689.

Master's with Teacher Certification

Special Education Master's Program with Teacher Certification (SEM-T)

Admission Requirements

1. The student applying for an endorsement in specific special education areas must meet the admissions requirements specified under the Master of Arts degree.
2. Student must submit documentation of passing scores on the Michigan Test of Teacher Certification (MTTC-Basic Skills).
3. Students must be admitted to the Department of Special Education prior to taking 400- and graduate-level requirements.

Program Requirements (Areas of Exceptionality Except Speech-Language Pathology)

Graduate students seeking endorsements must:

1. Complete an appropriate program of study as planned with a graduate adviser for the program area;
2. Meet all other requirements of the Graduate School.
Exit Criteria
Exit criteria involve achievement of the objectives for graduate study in special education listed previously, as
demonstrated by:

1. Successful completion of all course work on program (minimum GPA of 3.0);
2. Successful completion of required practica/internship;
3. Successful completion of independent study or thesis project.

Curricula

A description of initial endorsement sequences follows. Endorsement sequences for those already endorsed in one
area of special education, but seeking additional endorsement(s) consist of different courses than listed here. Students
should consult the graduate adviser for the area.

An initial endorsement sequence generally consists of the following core special education classes, plus the specialty
classes required by the specific program area. Students with teaching certificates are admitted to the professional
preparation program at the time of admission to the graduate program in Special Education.

Special Education Core Courses: 27 hours

- PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
- PSY 101 - General Psychology Credit Hours: 3 hrs
- SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours:
  3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Program Total: 27 hours

Courses Required for Initial Endorsement:

Teachers of Students with Cognitive Impairment (COGN):

Special Education Core Courses: 27 hours

- PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
- PSY 101 - General Psychology Credit Hours: 3 hrs
- SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours:
  3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Program Total: 27 hours

- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs

Courses Required for Initial Endorsement: 23 hours

- SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
- SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4
  hrs
- SPCI 557 - Cognitive Impairment Theory Credit Hours: 4 hrs
- SPGN 689 - Supervised Internship in Special Education Credit Hours: 6 hrs
- SPGN 694 - Seminar: Interdisciplinary Special Education Credit Hours: 3 hrs
- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
Endorsement with Core Course Total: 50 hours

Teachers of Students with Emotional Impairment (EMOT):

Special Education Core Courses: 27 hours

- PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
- PSY 101 - General Psychology Credit Hours: 3 hrs
- SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Courses Required for Initial Endorsement: 19 hours

- SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
- SPEI 510 - Theories of Emotional-Behavioral Impairments Credit Hours: 4 hrs
- SPEI 694 - Seminar: Students with Emotional Impairment Credit Hours: 3 hrs
- SPGN 689 - Supervised Internship in Special Education Credit Hours: 6 hrs
- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs

Endorsement with Core Course Total: 46 hours

Teachers of Students with Hearing Impairment (HEAR):

Prospective students should be aware that the basic philosophy of the program is oral communication; students are exposed to manual communication during their course of study, however.

All students are considered provisional majors until such time as they successfully complete SPHI 391 Language for Students with Hearing Impairment and pass a language proficiency examination. SPLI 673 listed above is **not** required in this program.

Special Education Core Courses: 27 hours

- PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
- PSY 101 - General Psychology Credit Hours: 3 hrs
- SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Courses Required for Initial Endorsement: 35 hours

- SPGN 689 - Supervised Internship in Special Education Credit Hours: 6 hrs
- SPGN 694 - Seminar: Interdisciplinary Special Education Credit Hours: 3 hrs
- SPHI 228 - Education of Students with Hearing Impairment Credit Hours: 3 hrs
- SPHI 375 - Fundamentals of Sign Communication Credit Hours: 2 hrs
- SPHI 387 - Introductory Practicum — Students with Hearing Impairment Credit Hours: 1 hr
- SPHI 391 - Language for Students with Hearing Impairment Credit Hours: 4 hrs
- SPHI 392 - Introduction to Audiology Credit Hours: 2 hrs
- SPHI 394 - Aural Habilitation Rehabilitation Credit Hours: 3 hrs
• SPHI 435 - Phonetics and Hearing Impairment Credit Hours: 2 hrs
• SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
• SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
• SPHI 487 - Speech Practicum — Students with Hearing Impairment Credit Hours: 1 hr
• SPSI 337 - Language Acquisition Credit Hours: 3 hrs

Endorsement with Core Course Total: 62 hours

Teachers of Students with Physical Impairment or other Health Impairment (POHI):

Special Education Core Courses: 26 hours

• PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
• PSY 101 - General Psychology Credit Hours: 3 hrs
• SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
• SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
• SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
• SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
• SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
• SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
• SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Courses Required for Initial Endorsement: 32 hours

• SPLI 481 - Adaptive Technology in Special Education (2 hrs)
• SPCI 557 - Cognitive Impairment Theory Credit Hours: 4 hrs
• SPGN 689 - Supervised Internship in Special Education Credit Hours: 6 hrs
• SPGN 694 - Seminar: Interdisciplinary Special Education Credit Hours: 3 hrs
• SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
• SPPI 240 - Preclinical Experiences — POHI Credit Hours: 3 hrs
• SPPI 310 - Developmental Sciences for Teachers of the Physically and Health Impaired Credit Hours: 4 hrs
• SPPI 360 - Pathology of Physical and Health Impairments Credit Hours: 3 hrs
• SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
• SPPI 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs

Endorsement with Core Courses Total: 58 hours

Teachers of Students with Visual Impairment (VISU):

Special Education Core Courses: 26 hours

• PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
• PSY 101 - General Psychology Credit Hours: 3 hrs
• SPGN 390 - Measurement and Diagnosis in Special Education Credit Hours: 3 hrs
• SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
• SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
• SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
• SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
• SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
• SPLI 673 - Language: Acquisition, Disorders, Evaluation Credit Hours: 3 hrs

Courses Required for Initial Endorsement: 44 hours

• SPGN 689 - Supervised Internship in Special Education Credit Hours: 6 hrs
• SPGN 694 - Seminar: Interdisciplinary Special Education Credit Hours: 3 hrs
• SPVI 365 - Braille Credit Hours: 3 hrs
• SPVI 366 - The Eye and Vision — Anatomy and Physiology Credit Hours: 2 hrs
• SPVI 368 - Mobility Training for Persons with Visual Impairment Credit Hours: 2 hrs
• SPVI 369 - Community Considerations for Persons with Visual Impairment Credit Hours: 3 hrs
• SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
• SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
• SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
• SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs

Endorsement with Core Courses Total: 70 hours

Note:

Footnote:
These courses require admission to the professional preparation program.

Undergraduate Courses for Graduate Credit: Special Education

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
• SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4 hrs
• SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
• SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
• SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
• SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
• SPGN 491 - Special Education Student Teaching and Seminar Credit Hours: 2 hrs
• SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
• SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
• SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
• SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
• SPPI 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs
• SPSI 452 - Voice Credit Hours: 3 hrs
• SPSI 454 - Stuttering Credit Hours: 3 hrs
• SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
• SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
• SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
• SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs

Specialist

Specialist of Arts in Special Education (SP)

Program Advising
The Department of Special Education offers a specialist of arts degree designed to prepare highly qualified leadership personnel in two general areas of study:
1. Administration and supervision of special education programs; and
2. Curriculum development/assistive technology.

**Model**

Eastern Michigan University’s advanced professional education programs support inquiry, advocacy and leadership in education for a diverse and democratic society. In addition, the master’s level programs in the Department of Special Education produce professionals with the comprehensive knowledge, skills and attitudes to deliver a continuum of habilitative/rehabilitative services to persons with special needs, and to their families, with in a diverse society.

**Admission Requirements**

The graduate student seeking admission to this degree program is required to:

1. Meet the Graduate School Admission requirements;
2. Possess a master’s degree from a regionally accredited college or University, with a minimum 3.3 GPA;
3. Have three years of documented professional experience in special education;
4. Have an endorsement in one area of special education;
5. Submit two letters of recommendation to include: one letter verifying three years of successful professional experience in special education, and one letter from a faculty member or other person knowledgeable of candidate’s academic competence;
6. Have a successful personal interview;
7. Achieve an acceptable score on the Graduate Record Examination; and
8. (International students must) provide a score of 90 on the Michigan English Language Assessment Battery (MELAB).

**Program Requirements**

The program requirements for the Specialist of Arts degree include:

1. Completion of a minimum of 33 hours beyond the master’s degree;
2. Achievement of an overall GPA of 3.3 (B+) or better;
3. Recommendation from the Specialist’s degree committee for continuance in the program. This is to be done upon completion of 12-15 hours of course work, and before internship and thesis or independent study. The committee will consider GPA, faculty recommendations, demonstrated competence in academic and professional work, and rate of progress in the program. Students must demonstrate behaviors that indicate stability, maturity, understanding and aptitude as judged necessary for predicted success as a Specialist in special education administration/curriculum;
4. Successful completion of an internship;
5. Achievement of passing scores on oral and written examinations near the completion of the program; and
6. Completion of all other requirements of the Office of Graduate Studies and Research.

**Exit Criteria**

Criteria are to meet all the objectives listed previously for graduate study in special education, as demonstrated by successful completion of:

1. All course work in program of study (minimum GPA of 3.3);
2. Approved internship;
3. Thesis or independent study; and
4. Oral and written examinations.

**Specialist Program**

**Required Courses: 12 hours**

- EDP 667 - Principles of Educational Research Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs
- SPGN 619 - Administration and Supervision of Special Education Credit Hours: 3 hrs
- SPGN 632 - Models and Skills for Special and General Education Collaboration Credit Hours: 2 hrs
- SPGN 719 - Advanced Seminar: Special Education Administration Credit Hours: 3 hrs

**Concentration Courses: 13 hours**

Select from either option I or option II:

**Option I: Administrative Strand**
Thirteen hours selected in consultation with the graduate adviser.
Option II: Curriculum/Assistive Technology Strand

Thirteen hours selected in consultation with the graduate adviser.
Culminating Experience: 8 hours

Required by all specialist’s degree candidates:
- Thesis/Independent Study (4 hrs)
- SPGN 789 - Specialist Internship in Special Education Credit Hours: 4 hrs
Program Total: 33 hours

Undergraduate Courses for Graduate Credit: Special Education

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment Credit Hours: 4 hrs
- SPCI 483 - Education of Students in Programs for Moderate or Severe Cognitive Impairment Credit Hours: 4 hrs
- SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment Credit Hours: 4 hrs
- SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities Credit Hours: 3 hrs
- SPGN 471 - Curriculum and Transitions for Secondary Special Education Credit Hours: 3 hrs
- SPGN 481 - Assistive and Instructional Technology in Special Education Credit Hours: 3 hrs
- SPGN 491 - Special Education Student Teaching and Seminar Credit Hours: 2 hrs
- SPHI 436 - Speech Methods for Students with Hearing Impairment Credit Hours: 2 hrs
- SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment Credit Hours: 3 hrs
- SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs
- SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired Credit Hours: 2 hrs
- SPPI 414 - Educational Strategies for Teachers of the Physically Impaired Credit Hours: 4 hrs
- SPSI 452 - Voice Credit Hours: 3 hrs
- SPSI 454 - Stuttering Credit Hours: 3 hrs
- SPVI 464 - Methods of Teaching Children who are Blind Credit Hours: 3 hrs
- SPVI 465 - Braille II: Nemeth Code Credit Hours: 3 hrs
- SPVI 467 - Education of Children with Visual Impairment Credit Hours: 2 hrs
- SPVI 469 - Technology for Persons with Visual Impairment Credit Hours: 3 hrs
Teacher Education Programs and Courses

Teacher Education

Address: 313 Porter Building
Phone: 734.487.3260
E-mail: donald.bennion@emich.edu
Web site: www.emich.edu/coe/ted

Programs Offered
The department offers master of arts degrees in social foundations of education; educational psychology with degrees in development and personality and research and evaluation; educational media and technology; reading; early childhood education; elementary education; middle level education; secondary education; and common learnings in curriculum.

General Admission Requirements for Master’s Programs
The requirements listed below are common to all master’s programs in the department. Applicants must;

1. Meet the Graduate School admission requirements;
2. Hold a 2.75 undergraduate GPA or 3.0 in the last half of the undergraduate work or 3.3 GPA in 12 hours or more of work at the graduate level or a minimum 50th percentile on the Graduate Record Examination writing. International students must have a minimum score of 550 on the TOEFL;
3. For early childhood education, elementary education, middle level education, secondary education, common learnings in curriculum and reading — hold a valid teaching credential. For international students who do not intend to teach in the United States, this requirement can be waived;
4. Furnish an analysis of professional goals written by the candidate. This analysis should include a description of how the chosen degree program will help meeting the selected goals and how the candidate’s life experiences, accomplishments and interests will contribute to his or her success in the program; and
5. Request and have submitted two letters of recommendation that address the candidate’s professional commitment, experience and potential. The transcripts, analysis of goals and letters of recommendation should give evidence of potential for graduate-level scholarship.

Student Responsibilities
Upon admission to the program, the student is expected to assume the following responsibilities:

1. Follow all the policies of the Graduate School, department and program area as specified in the Graduate Catalog;
2. Consult with an assigned adviser before registering for courses in the degree program;
3. Prepare a program of study approved by an adviser; and
4. Obtain permission from the adviser before making substitutions or altering the program of study.

Department Appeals Procedure
Graduate students may formally appeal an admission, retention or exit decision by contacting the department head and graduate coordinator. Each appeal must be an individual action by an individual student. Class action appeals are not permitted.

Step I
The appellant must notify the department head and graduate coordinator in writing within five working days after written notice of the admission, retention or exit appeals action. The written request should summarize the facts of the case and reasons for the appeal. The department head will assist the student in scheduling an appointment with the graduate coordinator and department head to discuss privately the disputed decision.

Step II
If the dispute is not resolved in Step I, the student has the right to file a formal written appeal with the department head
who will forward it immediately to the Department Grade Grievance and Appeals Committee. Guidelines are as follows:

1. An appeal must be based on evidence that the program area in question has been capricious and/or unfair in making its decision. The written appeal must describe specifically the perceived capricious or unfair action of the program area. The student also should present all other evidence or documentation in support of the appeal.

2. An appeal must be filed within 15 working days after the meeting described in Step I.

Within 10 working days after receiving the written appeal, the department head must schedule a hearing before the Department Grade Grievance and Appeals Committee, composed of three faculty members and two graduate students. The student appellant may request in advance in writing that the appeal be heard only by the three faculty members. The committee shall conduct a hearing according to the following guidelines:

1. Any written information in support of either the student or the program should be distributed to committee members before the hearing.

2. A detailed record shall be kept of the hearing. If a written record is kept, it should be signed by the Grievance and Appeals Committee, asserting its accuracy. If a tape sound recording is made, the committee shall sign a statement attesting its accuracy. All Step II appeal records shall be filed in the college dean’s office; copies shall be provided, upon request, to the student appellant or the concerned program. Duplicating costs shall be borne by the individual or the program.

3. The hearing shall be open unless the student or the program area asks the department head in writing for a closed hearing.

4. Both the student and program representatives shall be permitted advisers, who must be members of the University community.

5. The Department Grade Grievance and Appeals Committee chair shall begin the hearing by starting the tape recorder (or announcing the name of the person taking minutes), reviewing the hearing guidelines and procedures, and saying “this Step Level II Appeals Hearing is being held on (date). (Name of student) is appealing the (program area) decision on (admissions, retention or exit) requirements. The following committee members are in attendance today: (members give their names).”

6. In order, the student and the program area representative(s) will present their cases, calling witnesses if they choose. The student, program area representatives, adviser(s) and committee members may question any such witness. The student and program area representative(s) should be asked for brief closing statements.

7. The chair will close the hearing by saying, “this Step Level II Appeals Hearing is now concluded.” The committee will meet and present its decision, in writing, to the department head within five working days. This document will contain a numerical report of the vote and be signed by the committee members. The department head will notify the student and the program area representative(s) of the committee’s decision.

MASTER OF ARTS Programs in Curriculum and Instruction
The curriculum and instruction area includes programs in elementary education, middle level education, secondary education and common learnings in curriculum.

Model
Eastern Michigan University’s advanced professional education program promotes inquiry, advocacy and leadership in education for a diverse and democratic society.

Admission Requirements
See general admission requirements above.

Retention Requirements
Students must successfully complete all retention requirements before proceeding with the remainder of the program.

1. Attendance at a program orientation.

2. From 15 to 18 hours of graduate credit, including CURR654 or CURR655 and required EDPS and SOFD courses, with an over all GPA of 3.0 or better.

3. A satisfactory assessment of written communication. Students lacking the requirements must meet with the adviser to determine whether to withdraw from the program or apply for continuing eligibility by completing a plan of remediation.
Exit Requirements
To graduate, students must:
1. Complete an approved program of study with a GPA of 3.0 or better;
2. Successfully complete a culminating experience;
3. Apply for graduation and obtain the adviser’s recommendation; and
4. Meet all other Office of Graduate Studies and Research requirements for the degree.

Description of Programs
All programs in the area of curriculum and instruction require foundations courses, courses particular to the degree program and a culminating experience. Programs in elementary education, middle level education and secondary education require a culminating thesis or project. The program in common learnings culminates in a comprehensive exam.

Undergraduate Courses for Graduate Credit
The following courses may be elected for graduate credit; course descriptions may be found in the undergraduate catalog. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- EDPS 402 Learning in the Later Years (3 hrs)

Teacher Education Programs and Courses

Graduate Certificate

Graduate Certificate in Educational Assessment (EDA)

Adviser: Nelson Maylone, EdD
313 Porter
734.487.3260
nelson.maylone@emich.edu

The focus of this certificate program is to improve student learning by way of assessment. Teachers and other educators earning this certificate will understand what constitutes high quality educational assessment and will recognize the relations among assessment, motivation, and student learning. Participants will be equipped to respond intelligently to the demands of government education policies, especially as they relate to assessment. They will become familiar with legal and ethical issues associated with educational assessment, will be able to analyze student assessment data from various sources, and will be able to evaluate assessment research.

Required Courses: 18 hours

- EDPS 688 Internship in Educational Psychology (3 hrs)
- EDPS 626 - Principles and Issues in Educational Assessment Credit Hours: 3 hrs
- EDPS 627 - Designing Classroom Assessments Credit Hours: 3 hrs
- EDPS 628 - Analyzing Student Learning Credit Hours: 3 hrs
- EDPS 629 - Assessment and Program/School Improvement Credit Hours: 3 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs

Certificate Total: 18 hours
Graduate Certificate in Educational Media and Technology (EDMT)

The mission of this certificate is to prepare professionals who are capable of facilitating student learning in a variety of settings. The program is designed to provide students with both the knowledge base and the application skills that are required to use technology effectively in education. Focusing on the design, development, utilization, management and evaluation of instructional systems moves us toward achieving this mission.

Admission Requirements
See general Graduate School admission requirements.

Certificate Requirements
This certificate requires 18 hours of course work to be distributed among the following:

Required Courses: 18 hours

- EDMT 602 - Technology and Student-Centered Learning Credit Hours: 3 hrs
- EDMT 603 - Technology Enhanced Learning Environments Credit Hours: 3 hrs
- EDMT 623 - Instructional Design and Development of Multimedia Instructional Materials Credit Hours: 3 hrs
- EDMT 627 - Advanced Technical Issues in Educational Technology Credit Hours: 3 hrs
- EDMT 628 - The Design and Use of Online Resources for Education Credit Hours: 3 hrs
- EDMT 653 - Issues and Emerging Educational Technologies Credit Hours: 3 hrs

Certificate Total: 18 hours

Master's

Master of Arts in Curriculum and Instruction

Description of Program
The program in common learnings and curriculum has a different purpose and rationale than the other three programs in the area of curriculum and instruction. Common learnings in curriculum has replaced the pre-existing K-12 curriculum program. Rather than focusing on the needs and instructional practices important for a particular age or grade level, the common learnings program examines theory, practice and issues in curriculum K-12. It is particularly appropriate for curriculum supervisors and for other individuals interested in curriculum issues that are important across grade levels or subject areas. Unlike other programs in curriculum and instruction, the common learnings program does not require a thesis or curriculum project. Instead, it may culminate in a comprehensive examination that requires a student to reflect upon and synthesize knowledge across a number of designated courses.

The program requires a prescribed concentration containing the core curriculum for common learnings, elective courses and a seminar course designed to assist the student to prepare for the required culminating experience, in this case, a comprehensive examination. The comprehensive examination for the common learnings program requires students to apply information from their courses to specific educational settings. Courses in the common learnings core are designed to explore curriculum issues, trends and practices across grade levels. They provide the opportunity to interact with professionals in a variety of roles and settings Electives are to be selected with the adviser to meet students’ professional needs and provide an appropriate variety of experiences. When the student has completed 34 hours and has received a passing grade on the comprehensive examination, the adviser will recommend the student for graduation.
Foundation Courses: 11 hours

- CURR 653 - Introduction to Curriculum Portfolios Credit Hours: 1 hr
- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs

One course from the following:

- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs
- SOFD 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs

One course from the following:

- EDPS 501 - Psychology of Adolescence Credit Hours: 2 hrs
- EDPS 600 - Human Development Credit Hours: 2 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Cohort Courses: 12 hours

- CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
- CURR 656 - Curriculum Design, Implementation and Evaluation Credit Hours: 3 hrs
- CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs

One course from the following:

- CURR 616 - Issues in Elementary School Curriculum Credit Hours: 3 hrs
- CURR 630 - Issues in Secondary School Curriculum Credit Hours: 3 hrs

Elective Courses: 7 hours

Choose six credit hours in addition to:

- CURR 694 - Seminar: Common Learnings Credit Hours: 1 hrs

Program Total: 31 hours

Note:

Foundations courses are required for all master of arts in curriculum and instruction programs. These courses provide the basis on which all subsequent courses are built and must be taken within the first 18 hours of course work.

Comprehensive Examination

If selected, the comprehensive examination for the common learnings program requires students to apply information from their courses to specific educational settings. Exams must be completed within a three (3) hour period.

Students will be required to answer three of four questions. The questions will emerge from the following knowledge base areas:

1. The foundations of curriculum, including forces impinging on schooling, curriculum philosophies and theories, and how these are related to contemporary school issues.
2. The design, implementation and evaluation of curriculum.
3. The proposals and practices of instructional improvement.
4. A question from one of the two courses selected from the listed options.

If a student does not pass the comprehensive examination he/she may retake the test the following semester. If he/she fails only two questions, the next exam will be limited to those areas the student failed. Students may retake a failed comprehensive exam each time it is administered. After one year has elapsed the I grade reverts to an E.

Master of Arts in Early Childhood Education (ECE)
Program Overview
The program in early childhood education is designed for those who hold teacher certification and have or are seeking careers as classroom teachers (pre school through third grade), child care program directors or other positions related to the care and education of children ages birth through eight years. Each student’s program is worked out in consultation with an adviser according to the background and needs of the individual student. The program requires a minimum of 31 hours of graduate credit. The actual credits required for the degree may be more than 31, depending on the amount of previous course work the student has successfully completed. Students can plan programs with their advisers that will enable them to meet the state of Michigan’s requirements for the early childhood endorsement for the elementary teaching certificate. This program is in compliance with the standards set forth by the National Association for the Education of Young Children.

Model
Eastern Michigan University’s advanced professional education programs promote inquiry, advocacy and leadership in education for a diverse and democratic society. The early childhood education program addresses extended knowledge of developing and implementing age-appropriate and individually appropriate curriculum and teaching practices from birth through age eight.

Admission Requirements
See general admission requirements.

Retention Requirements
Retention requirements can be considered a “mid-point check” in the master’s degree programs. It is necessary to successfully complete all retention requirements before proceeding with the remainder of the program.

To proceed with exit requirements, students must:
1. Complete ECE600 and ECE602 with a grade of B or better in both courses. ECE600 should be taken in the first eight hours on the program, as the course content will include a discussion of the master’s portfolio requirements and format;
2. Complete EDPS667, EDPS667 or EDPS687 and additional courses, including the above, to total 15 hours of graduate credit with an overall GPA of 3.0 or better;
3. Schedule and satisfactorily complete a faculty interview and professional portfolio mid-point review. The interview will include discussion of the student’s program to date and a review of the portfolio contents (see ECE’s Master’s Degree Portfolio Guidelines for portfolio requirements.); and
4. If a student’s progress is judged unsatisfactory at the time of the mid-point review, the decision will be reviewed by all early childhood education graduate faculty, with the decision based on a majority vote. Students who do not meet the criteria, but maintain graduate student status may continue to take graduate credit for professional development.

Exit Requirements
In order to graduate, each student is expected to:
1. Complete all Graduate School and department requirements for a master’s degree, following an approved program of study for the master’s degree in early childhood education;
2. Complete a culminating seminar in early childhood education, including submission of all required components or thesis proposal;
3. Fill out an application for graduation and obtain the adviser’s recommendation.

Curriculum Requirements:
All of the courses in the program and restricted elective areas count towards the Early Childhood Endorsement. The ECE requires a total of 20 hours of credit listed in the program and restricted elective areas.

The curricular requirements include a minimum of 31 graduate-level hours, to be distributed as follows:
Foundation: 27 hours

Early Childhood Education Requirements: 7 hours

One course in Human Growth and Development:

- EDPS 600 - Human Development Credit Hours: 2 hrs (recommended)

One course in Research (choose one of the following):

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

One course in Social Foundations (choose one of the following):

- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs
- SOFD 580 - Sociology of Education Credit Hours: 2 hrs

ECE Concentration: 14 hours

- ECE 600 - Trends and Issues in Early Childhood Education Credit Hours: 2 hrs
- ECE 602 - Implementing Appropriate Early Childhood Programs Credit Hours: 2 hrs
- ECE 610 - Family, School and Community Partnerships in Early Childhood Education Credit Hours: 2 hrs
- ECE 613 - Curriculum Frameworks in Early Childhood Credit Hours: 2 hrs
- ECE 641 - Developmental Assessment of the Young Child: Theory and Practice Credit Hours: 2 hrs
- ECE 693 - Seminar: Early Childhood Education Credit Hours: 2 hrs

One course from the following:

- ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs

Restricted Electives: 6 hours

At least three from the following:

- ECE 590 - Special Topics Credit Hours: 1 hr
- ECE 591 - Special Topics Credit Hours: 2 hrs
- ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
- ECE 603 - Professional Development in Early Childhood Education Credit Hours: 2 hrs
- ECE 604 - Directing a Child Care Program Credit Hours: 2 hrs
- ECE 615 - Social Relationships and Competence in Early Childhood Settings Credit Hours: 2 hrs
- ECE 618 - Play and Human Development Credit Hours: 2 hrs
- EDPS 611 - Piaget for Educators Credit Hours: 2 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- RDNG 656 - Language Development, Literacy and the Young Child Credit Hours: 3 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs

Electives: 4 hours

Take at least two courses after consultation with your faculty adviser. Some suggested electives include a course in: technology, elementary curriculum, math or science for educators, social foundations, educational psychology, reading, among others.

Program Total: 31 hours

Master of Arts in Educational Media and Technology (EDMT)
Program Theme
The mission of this program is to prepare professionals who are capable of facilitating student learning in a variety of settings. The program is designed to provide students with both the knowledge base and the application skills that are required to use technology effectively in education. Focusing on the design, development, utilization, management and evaluation of instructional systems moves us toward achieving this mission. Students who complete the educational technology program will be able to:

1. Provide a rationale for using technology in the educational process;
2. Identify contributions of major leaders in the field of educational media technology and instructional theory, and the affect that each leader has had on the field;
3. Assess current trends in the area of educational media technology and relate the trends to past events and future implications;
4. Integrate technology into instructional programs;
5. Teach the operation and various uses of educational technology in instruction;
6. Act as consultants/facilitators in educational media technology;
7. Design and develop instructional products to meet specified needs; and
8. Evaluate the effectiveness of instructional materials and systems.

Admission Requirements
See admissions requirements in the Teacher Education Department.

Retention Requirements
Retention requirements can be considered a mid-point check in the master’s degree programs. It is necessary to successfully complete all retention requirements before proceeding with the remainder of the program.

To gain approval to proceed with exit requirements, each student must:

1. Complete a total of 12 but no more than 18 hours of graduate credit with an overall GPA of 3.0 or better;
2. Write a one-page mid-program statement concerning the student’s interests and goals for the remainder of the program, and set an appointment with the faculty adviser to discuss; and
3. In addition, each faculty adviser and student will discuss the student’s plans and make revisions in the program (including the choice of statistics or qualitative research). They will also discuss remediation if warranted. A copy of the mid-program statement will be placed in the student’s file. In the event that the student’s GPA has dropped below 3.0 or any other deficiencies are noted, the adviser will develop a plan of remediation in consultation with the student.

Exit Requirements
In order to graduate, each student is expected to:

1. Complete all work on an approved program of study;
2. Maintain a 3.0 GPA (B) average or better on course work taken within the program;
3. Fill out an application for graduation and obtain the adviser’s recommendation;
4. Meet all other requirements for a master’s degree adopted by the Office of Graduate Studies and Research;
5. Complete a culminating experience as determined by the student and faculty adviser.

Curriculum:
The curricular requirements include a minimum of 30 graduate-level hours, to be distributed among the following:

Foundation Courses: 7 hours

One course from the following:

- EDPS 602 - Psychology of the Adult Learner Credit Hours: 2 hrs
- EDPS 603 - Principles of Classroom Learning Credit Hours: 2 hrs

One course from the following:
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs
- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs
- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Required EDMT Courses: 21 hours

- EDMT 602 - Technology and Student-Centered Learning Credit Hours: 3 hrs
- EDMT 603 - Technology Enhanced Learning Environments Credit Hours: 3 hrs
- EDMT 623 - Instructional Design and Development of Multimedia Instructional Materials Credit Hours: 3 hrs
- EDMT 627 - Advanced Technical Issues in Educational Technology Credit Hours: 3 hrs
- EDMT 628 - The Design and Use of Online Resources for Education Credit Hours: 3 hrs
- EDMT 653 - Issues and Emerging Educational Technologies Credit Hours: 3 hrs
- EDMT 695 - Seminar Credit Hours: 3 hrs

Restricted Technology Elective Courses: 21 hours

- Other University courses in Educational Technology
- EDMT 592 - Special Topics Credit Hours: 3 hrs
- EDMT 681 - Special Topics Credit Hours: 3 hrs

Program Total: 30 hours

Master of Arts in Educational Psychology - Research and Assessment (EPRA)

Program Overview
The master of arts degree program offers programs in development and personality, research and evaluation, and educational media and technology. The mission of the educational psychology program is to prepare the educator as a practitioner and researcher. The focus is on the application of psychological theories, principles and concepts to school and non-school settings. Specifically, the goals include enhancing the students’ abilities to:

1. Understand educational psychology concepts related to the cognitive, affective, physical and social development of children and adolescents;
2. Apply educational psychology and principles of learning in school and non-school settings;
3. Utilize the findings gained from research studies to create programs and environments that foster positive learning;
4. Design research studies and assessments of student outcomes; and
5. Understand the multiple dimensions of diversity and their potential impact on development and learning.

This program is under revision. Please contact the department for changes to the program.

Model
Eastern Michigan University’s advanced professional education program promotes inquiry, advocacy and leadership in education for a diverse and democratic society.

Admission Requirements
See general admission requirements.

Retention Requirements
Retention requirements can be considered a mid-point check in the master’s degree programs. It is necessary to successfully complete all retention requirements before proceeding with the remainder of the program. To gain approval to proceed with exit requirements, each student must:

1. Complete a total of 12 but no more than 18 hours of graduate credit with an overall GPA of 3.0 or better;
2. Write a three-page interim prospectus that includes: (a) a statement of professional goals; (b) a self-assessment of professional development since entering the program; (c) an identification of key issues to be pursued for the remainder of the program; and (d) a plan of action for the culminating experience. A copy of this statement will be placed in the student’s file; and

3. Set up an appointment with the faculty adviser to discuss the prospectus. In the event that the student’s GPA has dropped below 3.0, or if any other deficiencies are noted, the adviser will develop a plan of remediation in consultation with the student.

Exit Requirements
In order to graduate, each student is expected to:

1. Complete a minimum of 30 hours of graduate credit applicable to the program;
2. Maintain a minimum GPA of 3.0;
3. Complete the program-culminating seminar, including a successful thesis proposal, comprehensive exam or project;
4. Successfully complete a thesis, if the thesis proposal is chosen in No. 4;
5. Fill out an application for graduation and obtain the adviser’s recommendation; and
6. Meet all other requirements for a master’s degree adopted by the Office of Graduate Studies and Research.

Program Theme
The master’s degree in educational psychology with a research and evaluation concentration emphasizes educational assessments and evaluations, research methodology and a variety of data analysis procedures. Students design and implement studies in educational settings, including assessments of student outcomes in instruction. In addition, students develop skills in the use of computer application software. Also, this program provides a foundation for the pursuit of advanced degrees in educational psychology and allied fields.

Admission Requirements:
1. Personal Statement;
2. Three letters of recommendation.

Curriculum:

The curricular requirements include a minimum of 30 graduate-level hours, to be distributed as follows:

Required Foundation Courses: 14 hours

- EDPS 502 - Basic Concepts in Educational Psychology Credit Hours: 2 hrs
- EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs
- EDPS 651 - Inferential Statistics Credit Hours: 2 hrs
- EDPS 660 - Grantwriting Credit Hours: 2 hrs

Two research courses from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Restricted Elective Courses: 8 hours

Choose eight hours from the following in cooperation with an advisor

See footnote below

Assessment Courses

- EDPS 535 - Measurement and Evaluation of Adult Learners Credit Hours: 2 hrs
- EDPS 626 - Principles and Issues in Educational Assessment Credit Hours: 3 hrs
- EDPS 627 - Designing Classroom Assessments Credit Hours: 3 hrs
- EDPS 628 - Analyzing Student Learning Credit Hours: 3 hrs
- EDPS 629 - Assessment and Program/School Improvement Credit Hours: 3 hrs
- EDPS 631 - Measurement and Evaluation Credit Hours: 2 hrs

Research Courses
Independent Studies in specific techniques (1-3 hrs)
CURR 667 - Teacher as Intellectual Inquirer Credit Hours: 2 hrs
EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
EDPS 674 - Survey Research and Data Analysis Credit Hours: 3 hrs
EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
EDPS 687 - Qualitative/ Interpretive Research Credit Hours: 3 hrs
SOFD 570 - Women and Pedagogy: Life Histories Credit Hours: 3 hrs

Elective Courses in Educational Foundations: 4 hours

Courses to be determined in cooperation with an advisor.
Required Culminating Experience: 4 hours

EDPS 694 - Seminar in Educational Psychology Credit Hours: 2 hrs
Choose one course from the following:
EDPS 691 - Thesis Credit Hours: 2 hrs
EDPS 698 - Independent Study Credit Hours: 2 hrs

Program Total: 30 hours

Note:

Footnote:
Research and assessment courses from other departments may be included in cooperation with an adviser.

**Master of Arts in Educational Psychology - The Developing Learner (EPDL)**

**Program Overview**
The master of arts degree program offers programs in development and personality, research and evaluation, and educational media and technology. The mission of the educational psychology program is to prepare the educator as a practitioner and researcher. The focus is on the application of psychological theories, principles and concepts to school and non-school settings. Specifically, the goals include enhancing the students’ abilities to:

1. Understand educational psychology concepts related to the cognitive, affective, physical and social development of children and adolescents;
2. Apply educational psychology and principles of learning in school and non-school settings;
3. Utilize the findings gained from research studies to create programs and environments that foster positive learning;
4. Design research studies and assessments of student outcomes; and
5. Understand the multiple dimensions of diversity and their potential impact on development and learning.

This program is under revision. Please contact the department for changes to the program.

**Model**
Eastern Michigan University’s advanced professional education program promotes inquiry, advocacy and leadership in education for a diverse and democratic society.

**Admission Requirements**
See general admission requirements.

**Retention Requirements**
Retention requirements can be considered a mid-point check in the master’s degree programs. It is necessary to successfully complete all retention requirements before proceeding with the remainder of the program.

To gain approval to proceed with exit requirements, each student must:

1. Complete a total of 12 but no more than 18 hours of graduate credit with an overall GPA of 3.0 or better;
2. Write a three-page interim prospectus that includes: (a) a statement of professional goals; (b) a self-assessment of professional development since entering the program; (c) an identification of key issues to be pursued for the remainder of the program; and (d) a plan of action for the culminating experience. A copy of this statement will be placed in the student’s file; and
3. Set up an appointment with the faculty adviser to discuss the prospectus. In the event that the student’s GPA has dropped below 3.0, or if any other deficiencies are noted, the adviser will develop a plan of remediation in consultation with the student.

Exit Requirements
In order to graduate, each student is expected to:
1. Complete a minimum of 30 hours of graduate credit applicable to the program;
2. Maintain a minimum GPA of 3.0;
3. Complete the program-culminating seminar, including a successful thesis proposal, comprehensive exam or project;
4. Successfully complete a thesis, if the thesis proposal is chosen in No. 4;
5. Fill out an application for graduation and obtain the adviser’s recommendation; and
6. Meet all other requirements for a master’s degree adopted by the Office of Graduate Studies and Research.

Program Theme
This program provides knowledge about human development, personality and learning, and helps students to apply these concepts to a variety of environments. Students analyze issues regarding individual differences including children at risk, the impact of poverty, giftedness, multicultural factors, social class and gender influences on learning and development. Students learn to analyze critically and synthesize information to respond to individual differences within the classroom and other educational settings, thereby creating situations that enhance the motivation and capacity for learning.

Admission Requirements:
1. Personal Statement;
2. Three letters of recommendation.

Curriculum:
The curricular requirements include a minimum of 30 graduate-level hours, to be distributed as follows:

Required Foundation Courses: 9-11 hours
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs
- EDPS 502 - Basic Concepts in Educational Psychology Credit Hours: 2 hrs
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- SOFD 580 - Sociology of Education Credit Hours: 2 hrs
Choose one course from the following:
- EDPS 501 - Psychology of Adolescence Credit Hours: 2 hrs
- EDPS 600 - Human Development Credit Hours: 2 hrs

Restricted Elective Courses: 12 hours
- EDPS 601 - Psychology of Adolescence Credit Hours: 2 hrs
- EDPS 600 - Human Development Credit Hours: 2 hrs

At least 12 hours distributed among cognitive, emotional and social areas, to be determined in cooperation with an adviser.

Cognitive Courses
- EDPS 504 - Nature and Identification of the Gifted Credit Hours: 2 hrs
- EDPS 512 - Theories of Cognitive Intelligence Credit Hours: 2 hrs
- EDPS 550 - Motivation to Learn Credit Hours: 2 hrs
- EDPS 602 - Psychology of the Adult Learner Credit Hours: 2 hrs
- EDPS 603 - Principles of Classroom Learning Credit Hours: 2 hrs
- EDPS 611 - Piaget for Educators Credit Hours: 2 hrs
- EDPS 614 - Psychology of Creativity for Educators Credit Hours: 2 hrs
- EDPS 631 - Measurement and Evaluation Credit Hours: 2 hrs
- **EDPS 667 - Principles of Educational Research** Credit Hours: 3 hrs

**Emotional Courses**

- **COUN 505 - Counselor Development: Basic Skills** Credit Hours: 3 hrs
- **COUN 515 - Crisis Intervention** Credit Hours: 2 hrs
- **COUN 571 - Cross-cultural Counseling** Credit Hours: 3 hrs
- **COUN 651 - Counseling with Children** Credit Hours: 3 hrs
- **ECE 601 - Helping Young Children in Crisis Through Curricular Activities** Credit Hours: 2 hrs
- **EDPS 501 - Psychology of Adolescence** Credit Hours: 2 hrs
- **EDPS 509 - Students’ Emotional Wellness in Educational Environments** Credit Hours: 3 hrs
- **EDPS 605 - Mental Health of Educators** Credit Hours: 2 hrs
- **EDPS 620 - Self-Concept, Self-Esteem and Individual Difference** Credit Hours: 2 hrs
- **WGST 575 - Theories of Sexuality** Credit Hours: 3 hrs

**Social Courses**

- **ECE 610 - Family, School and Community Partnerships in Early Childhood Education** Credit Hours: 2 hrs
- **ECE 615 - Social Relationships and Competence in Early Childhood Settings** Credit Hours: 2 hrs
- **EDPS 617 - Children in Poverty: Educational Implications** Credit Hours: 2 hrs
- **EDPS 640 - School Violence: A Holistic Approach to Prevention and Intervention** Credit Hours: 3 hrs
- **PHY 520 - Teaching of Physical Science** Credit Hours: 2 hrs
- **SOFD 535 - Multicultural and International Education** Credit Hours: 2 hrs
- **SOFD 581 - Gender and Education** Credit Hours: 3 hrs
- **SPGN 525 - Classroom Management and the Development of Social Competence in Students with Special Needs** Credit Hours: 2 hrs
- **SPGN 615 - Social Psychology of Disability: Family, School, and Society** Credit Hours: 3 hrs
- **WGST 581 - Gender and Education** Credit Hours: 3 hrs
- **WGST 617 - Children in Poverty: Educational Implications** Credit Hours: 2 hrs

**Elective Courses: 0-5 hours**

**Required Culminating Experiences: 3-4 hours**

Choose one course from the following:

- **EDPS 691 - Thesis** Credit Hours: 2 hrs
- **EDPS 697 - Independent Study** Credit Hours: 1 hr
- **EDPS 698 - Independent Study** Credit Hours: 2 hrs

Program Total: 30 hours

Notes:

*Footnote One:*
**CURR 655 is required only if there is no teaching certification.**

*Footnote Two:*
**This was previously course COUN 503; If a student took it as COUN 503 it does not need to be taken again.**

**Master of Arts in Elementary Education (ELED)**

**Description of Program**

The elementary education program is designed to encourage each student to investigate a subject in depth and create a culminating product that is derived from that investigation. The program includes foundation courses, a specialized course in related educational issues, a specialization consisting of a minimum of four classes that reflect a thematic or other unified pattern, elective courses, a seminar course designed to assist the student to develop a thesis/project topic.
and proposal and thesis/project credits needed to complete the product. When the student has completed 33 hours and has received approval signifying acceptance of the completed thesis/project, the adviser will recommend graduation.

Program Requirements

**Foundations Courses:** 9 hours

- CURR 653 - Introduction to Curriculum Portfolios Credit Hours: 1 hr
- EDPS 600 - Human Development Credit Hours: 2 hrs
- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

One course from the following:

- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs

**Cohort Courses:** 12 hours

- CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
- CURR 656 - Curriculum Design, Implementation and Evaluation Credit Hours: 3 hrs
- CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs

One course from the following:

- CURR 616 - Issues in Elementary School Curriculum Credit Hours: 3 hrs
- CURR 630 - Issues in Secondary School Curriculum Credit Hours: 3 hrs

**Elective Courses:** 7 hours

Seven hours selected in consultation with the graduate adviser.

**Program Total:** 31 hours

**Culminating Experience:** 3 hrs

*Masters Focus Paper in addition to:*

- CURR 694 - Seminar: Elementary School Curriculum Credit Hours: 1 hr

**Notes:**

*Foundation courses are required for all Master of Arts in Curriculum and Instruction programs. These courses provide the basis on which all subsequent courses are built and must be taken within the first 18 hours of course work.*

The culminating experience for the elementary education program is a thesis or a project. This thesis/project is an opportunity for students to make the transition from consumers to producers of knowledge and innovation in the field of education. In a thesis, the writer investigates some area of educational theory or practice, gathers and analyzes information and draws conclusions to add to the body of knowledge in the field of curriculum. Curriculum projects entail working toward the solution of an educational problem using some aspect of curriculum.

Both the thesis and the curriculum project are intended to be new, original work, completed in consultation with a committee of faculty advisers. While a thesis or project often is the result of an interest that has developed across time, it is expected that the culminating experience itself will be developed during the time period that includes registration in seminar and completion of thesis credit. Previously completed projects are not acceptable for this purpose.

The thesis/project should reflect the grade-level program (elementary, middle level or secondary) and concentration area selected.
Concentration Requirements

The elementary education program also requires each student to pursue a specialization. A specialization includes a minimum of four classes that reflect a thematic or other unified pattern. Specialization courses allow students to acquire in-depth knowledge in an area of interest and acquire important background for their thesis or project. Specialization available in the elementary education program are:

I. Subject Area Specialization
II. Education of the Gifted and Talented
III. Teacher as Inquirer
IV. Instructional Models and Processes
V. Language Arts
VI. Students with Special Needs

A student and an adviser are free to create a unique pattern, so long as that pattern meets the “unified pattern” criteria.

Program requirements are described below. For additional information about the programs available, consult the coordinator of graduate programs in curriculum and instruction.

I. Subject Area Specialization Concentration: 8-10 hours

Four graduate classes from your major/minor subject area selected in consultation with the graduate adviser.

II. Education of the Gifted and Talented Concentration: 8 hours

Required Courses: 6 hours

- CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
- CURR 673 - Curriculum and Teaching Strategies for the Gifted and Talented Credit Hours: 2 hrs

One course from the following:

- CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
- EDPS 614 - Psychology of Creativity for Educators Credit Hours: 2 hrs

Restricted Elective Course: 2 hours

One course from the following (others courses may be selected in consultation with the adviser):

- CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
- CURR 676 - Education of the Gifted and Talented: Underrepresented Populations Credit Hours: 2 hrs
- EDPS 504 - Nature and Identification of the Gifted Credit Hours: 2 hrs
- EDPS 614 - Psychology of Creativity for Educators Credit Hours: 2 hrs

III. Instructional Models and Practices Concentration: 8 hours

Required Courses: 4 hours

- CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
- CURR 656 - Curriculum Design, Implementation and Evaluation Credit Hours: 3 hrs

Restricted Elective Courses: 4 hours

Two courses from the following (others courses may be selected in consultation with the adviser)

- Advanced subject matter courses
- Appropriate course in education media/technology
- CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
- CURR 512 - Enriching the Elementary Classroom Program Credit Hours: 2 hrs
- CURR 560 - School and Classroom Discipline Credit Hours: 2 hrs
- CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
- CURR 657 - The Open Classroom Credit Hours: 4 hrs
- CURR 660 - Assisting Student Teachers and New Teachers Credit Hours: 2 hrs
- CURR 667 - Teacher as Intellectual Inquirer Credit Hours: 2 hrs
- EDPS 603 - Principles of Classroom Learning Credit Hours: 2 hrs
III. Teacher as Inquirer Concentration: 11 hours

Required Courses: 5 hours

- CURR 667 - Teacher as Intellectual Inquirer Credit Hours: 2 hrs

One course from the following:

See footnote one below

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Other Courses: 6 hours

*Students must select a pattern of three courses with the approval of advisor. Some suggested patterns include:*

1. Quantitative analysis and measurement courses
2. Qualitative methods
3. Curriculum and instruction theory and practice
4. Educational context, e.g., appropriate courses in social foundations

V. Language Arts Concentration-Elementary: 10 hours

Required Courses: 6 hours

One course from the following:

- RDNG 656 - Language Development, Literacy and the Young Child Credit Hours: 3 hrs
- RDNG 657 - Comprehension and the Content Areas Credit Hours: 3 hrs

One course from the following:

- RDNG 655 - The Integrated Literacy Curriculum Credit Hours: 3 hrs
- RDNG 658 - Reading and Writing and the Inquiry Process Credit Hours: 3 hrs

Restricted Elective Courses: 4-6 hours

*Two courses from the following:*

- CHL 516 - Introduction to Graduate Studies in Children’s Literature Credit Hours: 3 hrs
- CTAR 501 - Creative Drama and Role-Play Credit Hours: 2 hrs
- CTAR 504 - Oral Interpretation of Literature and Language with the Young Credit Hours: 2 hrs
- RDNG 506 - Storytelling Credit Hours: 3 hrs
- RDNG 655 - The Integrated Literacy Curriculum Credit Hours: 3 hrs
- RDNG 656 - Language Development, Literacy and the Young Child Credit Hours: 3 hrs
- RDNG 657 - Comprehension and the Content Areas Credit Hours: 3 hrs
- RDNG 658 - Reading and Writing and the Inquiry Process Credit Hours: 3 hrs

VI. Students with Special Needs Concentration: 8 hours

See footnote two below

Required Courses: 4 hours

- CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs

Restricted Elective Courses: 4 hours

*Two courses from the following (other courses may be selected in consultation with the adviser):*

- SPLI 468G Education of Children with Learning Disabilities (must be taken for graduate credit) (2 hrs)
- CURR 673 - Curriculum and Teaching Strategies for the Gifted and Talented Credit Hours: 2 hrs
- CURR 676 - Education of the Gifted and Talented: Underrepresented Populations Credit Hours: 2 hrs
• ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
• EDPS 504 - Nature and Identification of the Gifted Credit Hours: 2 hrs
• EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
• RDNG 554 - Reading Problems of Learners with Special Needs Credit Hours: 2 hrs
• WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs

Note:

Footnote One:
Must take the course not taken in foundations area.

Footnote Two:
This concentration does not qualify a student to teach or receive an endorsement in special education.

Master of Arts in Middle Level Education (MSED)

Description of Program
The middle level education program is designed to encourage each student to investigate a subject in depth and create a culminating product that is derived from that investigation. The program includes foundation courses, courses in the philosophy and practice of middle level education, a specialized course in related educational issues, a concentration, elective courses, a seminar course designed to assist the student to develop a thesis/project topic and proposal, and thesis/project credits needed to complete the product. When the student has completed 34 credit hours and has received approval signifying acceptance of the completed thesis/project, the adviser will recommend graduation.

Foundations Courses: 9 hours
• CURR 653 - Introduction to Curriculum Portfolios Credit Hours: 1 hr
• CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
• EDPS 501 - Psychology of Adolescence Credit Hours: 2 hrs
• EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Middle Level Cohort Courses: 11 hours
• CURR 618 - Middle Level Education: Theory and Practice Credit Hours: 3 hrs
• CURR 620 - Issues in Middle Level Curriculum Credit Hours: 3 hrs
• CURR 622 - Effective Teaching in Middle Level Education Credit Hours: 3 hrs
• CURR 687 - Internship in Teacher Education Credit Hours: 2 hrs

Elective Courses: 9 hours

Electives are selected in consultation with the adviser.
Culminating Experience: 2 hours

Masters Focus Paper in addition to:
• CURR 694 - Seminar: Middle Level Curriculum Credit Hours: 1 hr

Program Total: 31 hours

Note:

Foundations courses are required for all master of arts in curriculum and instruction programs. These courses provide the basis on which all subsequent courses are built and must be taken within the first 18 hours of course work.
Thesis/Project

The culminating experience for a master of arts in middle-level education is a thesis or project centered in the middle grades school/classroom. This is an opportunity for the student to make the transition from a consumer to a producer of knowledge and innovation in the field of middle grades education. Curriculum projects entail working toward the solution of middle grades educational problems using some aspect of curriculum and/or curriculum development.
Thesis/projects are planned with the help of an adviser and a thesis/project committee and should reflect the selected concentration area within middle-level education.

Concentration Area

All students in the Middle Level Education program must select a broad subject area concentration. This concentration requires nine credits selected from the undergrad major/minor subject area. Fields such as social studies are acceptable (history is not), science is acceptable (biology is not). This reflects the broad field interdisciplinary teaming concept key to middle-level schools.

Master of Arts in Reading (RDNG)

Adviser: Mary Rearick, PhD.
313 Porter
734.487.3260
mrearick@emich.edu

The Master of Arts in Reading provides candidates with a strong theoretical foundation in the field of reading, both historic and current, as well as skills needed to enhance the needs of struggling readers. In addition, candidates gain knowledge of a wide range of instructional practices, approaches, methods, and curriculum materials to support reading and writing instruction. Candidates also use a variety of assessment tools and practices to plan and evaluate effective reading instruction. Finally, candidates gain knowledge and expertise that enables them to work successfully in culturally and linguistically diverse settings.

Career Opportunities

The Master of Arts in Reading leads to the K-12 Reading Specialist (BR) endorsement from the state of Michigan. Students must complete all required courses in the program and successfully pass the Michigan State Endorsement Test (#92) to gain the endorsement as a Reading Specialist. The Master of Arts in Reading and the state of Michigan endorsement as a Reading Specialist can lead to positions as building or district literacy curriculum/reading specialist, literacy coach, or reading teacher for struggling readers.

Accreditation

The EMU College of Education is accredited by the National Council for Accreditation of Teacher Education and approved by the Michigan Department of Education for the preparation of educational personnel. The Master of Arts in Reading is nationally recognized by the International Reading Association.

Number of Credits

30–31 credits in reading courses including 1 elective course of 3–4 credits
5–6 hours of foundation courses
35–37 credit hours total

Admission Requirements

1. Comply with the Graduate School’s admission requirements.
2. Have earned a valid undergraduate degree from an accredited four-year institution of higher education. (An undergraduate student may apply after the final semester’s registration is completed in the senior year.)
3. International students must have a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) or 80 on the Michigan English Language Ability Battery (MELAB). They must also submit a minimum score of 230 on the Test of spoken English (TSE).
4. Applicants seeking their first master’s degree must have a 2.75 undergraduate GPA or a 3.0 GPA in the second half of the undergraduate program. Applicants seeking a second master’s degree must have a 3.0 GPA or better on their previous graduate degree.
5. Applicants must submit recommendations from two professional supervisors and/or supervising professors that address the quality of the applicant’s professional work.
6. Applicants must present evidence of a valid teaching certificate.
7. Applicants must submit a one-page resume detailing their professional and educational accomplishments and academic goals.

8. Applicants must complete (on the graduate application) the personal statement of accomplishments and academic goals portion describing the reasons for requesting admission. This essay must be a minimum of 250 words and will be reviewed as an indicator of writing ability.

Program Offerings

The Master of Arts in Reading is offered on the main campus at Eastern Michigan University. In addition, this program is offered at two off-campus sites in Monroe, Michigan and in Brighton, Michigan during alternating two year cycles. Beginning in Spring 2007 and ending in Fall 2009, the Master of Arts in Reading will be offered in Monroe, Michigan. Beginning in Spring 2010 and ending in Fall 2012, the Master of Arts will be offered in Brighton, Michigan.

For More Information

For an application packet and information about requirements for admission to the M.A. in Reading program, contact:

The Department of Teacher Education
Graduate Reading Program Coordinator of Advising: mary.rearick@emich.edu
Eastern Michigan University
John W. Porter Building – Suite 313
Ypsilanti, MI 48197
Phone: 734-487-3260
FAX: 734-487-2101

Complete your application for admission to Eastern Michigan University on the Web — http://www.emich.edu/admissions/apply/.

Educational Foundations: 5-6 hours

- EDPS 600 - Human Development Credit Hours: 2 hrs

One course from the following:

- SOFD 535 - Multicultural and International Education Credit Hours: 2 hrs
- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs
- SOFD 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 664 - Multicultural Curriculum Development Credit Hours: 3 hrs
- CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/ Interpretive Research Credit Hours: 3 hrs

Foundations in Reading: 15 hours

All courses are required:

- RDNG 655 - The Integrated Literacy Curriculum Credit Hours: 3 hrs
- RDNG 656 - Language Development, Literacy and the Young Child Credit Hours: 3 hrs
- RDNG 657 - Comprehension and the Content Areas Credit Hours: 3 hrs
- RDNG 658 - Reading and Writing and the Inquiry Process Credit Hours: 3 hrs

Literacy Research, Assessment and Practicum: 12 hours

Foundations in Reading courses are prerequisites for the courses in this sequence. Courses must be taken in sequence.

All courses are required:

- RDNG 660 - Foundations of Literacy: Research and Theory Credit Hours: 3 hrs
- RDNG 672 - Practicum I: Literacy Assessment Credit Hours: 3 hrs
- RDNG 673 - Practicum II: Designing Literacy Intervention Programs Credit Hours: 3 hrs
• RDNG 674 - Practicum III: The Literary Coach Credit Hours: 3 hrs
  Capstone Course and Project: 3 hours
• RDNG 695 - Seminar: The Reading Professional Credit Hours: 3 hrs
  Program Total: 32-33 hours

**Master of Arts in Secondary Education (SSED)**

**Description of Program**
The secondary education program is designed to encourage each student to investigate a subject in depth and create a culminating product that is derived from that investigation. The program includes foundation courses, a specialized course in related educational issues, a specialization consisting of a minimum of four classes that reflect a thematic or other unified pattern, elective courses, a seminar course designed to assist the student to develop a thesis/project topic and proposal, and thesis/project credits needed to complete the product. When the student has completed 33 hours and has received approval signifying acceptance of the completed thesis/project, the adviser will recommend graduation.

**Foundations Course: 11 hours**
- CURR 653 - Introduction to Curriculum Portfolios Credit Hours: 1 hr
- EDPS 501 - Psychology of Adolescence Credit Hours: 2 hrs
- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs
One course from the following:
- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs

**One course from the following:**
- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/ Interpretive Research Credit Hours: 3 hrs

**Cohort Courses: 12 hours**
- CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
- CURR 656 - Curriculum Design, Implementation and Evaluation Credit Hours: 3 hrs
- CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs
One course from the following:
- CURR 616 - Issues in Elementary School Curriculum Credit Hours: 3 hrs
- CURR 630 - Issues in Secondary School Curriculum Credit Hours: 3 hrs

**Elective Courses: 7 hours**
- Seven credit hours in consultation with an adviser.
- Culminating Experience: 1 hour

**Masters Focus Paper in addition to:**
- CURR 694 - Seminar: Secondary Curriculum Credit Hours: 1 hrs
  Program Total: 31 hours

**Note:**

*Foundations courses are required for all master of arts in curriculum and instruction programs. These courses provide the basis on which all subsequent courses are built and must be taken within the first 18 hours of course work.*

*Thesis/Project*
The culminating experience for the secondary education program is a thesis or a project. This thesis/project is an opportunity for students to make the transition from consumers to producers of knowledge and innovation in the field of education. In a thesis, the writer investigates some area of educational theory or practice, gathers and analyzes information and draws conclusions to add to the body of knowledge in the field of curriculum. Curriculum projects entail working toward the solution of an educational problem, using some aspect of curriculum.

Both the thesis and the curriculum project are intended to be new, original work, completed in consultation with a committee of faculty advisers. While a thesis or project often is the result of an interest that has developed across time, it is expected that the culminating experience itself will be developed during the time period that includes registration in seminar and completion of thesis credit. Previously completed projects are not acceptable for this purpose.

The thesis/project should reflect the grade-level program (elementary, middle-level, or secondary) and concentration area selected.

Concentration Requirements

The secondary education program also requires each student to pursue a concentration. A concentration includes a minimum of four classes that reflect a thematic or other unified pattern. Concentration courses allow students to acquire in-depth knowledge in an area of interest and acquire important background for their thesis or project. Specializations available in the secondary education program are:

- Subject Area Specialization
- Education of the Gifted and Talented
- Teacher as Inquirer
- Instructional Models and Processes
- Language Arts
- Students with Special Needs

A student and an adviser are free to create a unique pattern, as long as that pattern meets the “unified pattern” criteria. Concentration requirements are described below. For additional information about the programs available, consult the coordinator of graduate programs in curriculum and instruction.

I. Subject Area Specialization Concentration: 8-10 hours

Select four graduate classes from your major/minor subject area in consultation with the adviser.

II. Education of the Gifted and Talented Concentration: 8 hours

Required Courses: 6 hours

- CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
- CURR 673 - Curriculum and Teaching Strategies for the Gifted and Talented Credit Hours: 2 hrs

One course from the following:

- CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
- EDPS 614 - Psychology of Creativity for Educators Credit Hours: 2 hrs

Restricted Elective Courses: 2 hours

One course from the following, other courses may be selected in consultation with the adviser:

- CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
- CURR 676 - Education of the Gifted and Talented: Underrepresented Populations Credit Hours: 2 hrs
- EDPS 504 - Nature and Identification of the Gifted Credit Hours: 2 hrs
- EDPS 614 - Psychology of Creativity for Educators Credit Hours: 2 hrs

III. Teacher as Inquirer Concentration: 11 hours

Required Courses: 5 hours
• CURR 667 - Teacher as Intellectual Inquirer Credit Hours: 2 hrs

One course from the following:

See footnote one below

• EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
• EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Restricted Elective Courses: 6 hours

Students must select a pattern of three courses with the approval of adviser. Some suggested patterns include:

1. Quantitative analysis and measurement courses
2. Qualitative methods
3. Curriculum and instruction theory and practice
4. Educational context, e.g., appropriate courses in social foundations

IV. Instructional Models and Practices Concentration: 8 hours

Required Courses: 4 hours

• CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
• CURR 656 - Curriculum Design, Implementation and Evaluation Credit Hours: 3 hrs

Restricted Elective Courses: 4 hours

Two courses from the following, other courses may be selected in consultation with the adviser:

• CURR 510 - Developing Creativity in the Classroom Credit Hours: 2 hrs
• CURR 512 - Enriching the Elementary Classroom Program Credit Hours: 2 hrs
• CURR 560 - School and Classroom Discipline Credit Hours: 2 hrs
• CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
• CURR 657 - The Open Classroom Credit Hours: 4 hrs
• CURR 660 - Assisting Student Teachers and New Teachers Credit Hours: 2 hrs
• CURR 667 - Teacher as Intellectual Inquirer Credit Hours: 2 hrs
• EDPS 603 - Principles of Classroom Learning Credit Hours: 2 hrs

V. Students with Special Needs Concentration: 8 hours

See footnote two below

Required Courses: 4 hours

• CURR 572 - Education of the Gifted Child Credit Hours: 2 hrs
• SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs

Restricted Elective Courses: 4 hours

Two courses from the following, other courses may be selected in consultation with the adviser:

• CURR 673 - Curriculum and Teaching Strategies for the Gifted and Talented Credit Hours: 2 hrs
• CURR 676 - Education of the Gifted and Talented: Underrepresented Populations Credit Hours: 2 hrs
• ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
• EDPS 504 - Nature and Identification of the Gifted Credit Hours: 2 hrs
• EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
• RDNG 554 - Reading Problems of Learners with Special Needs Credit Hours: 2 hrs
• SPLI 468 - Education of Children with Learning Disabilities Credit Hours: 2 hrs

(Must be taken for graduate credit)

• WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs

VI. Language Arts Concentration-Secondary: 10-12 hours
Required Courses: 6 hours

- RDNG 657 - Comprehension and the Content Areas Credit Hours: 3 hrs
- RDNG 658 - Reading and Writing and the Inquiry Process Credit Hours: 3 hrs

Restricted Elective Courses: 4-6 hours

Two courses from the following:

- CHL 516 - Introduction to Graduate Studies in Children's Literature Credit Hours: 3 hrs
- CTAR 501 - Creative Drama and Role-Play Credit Hours: 2 hrs
- CTAR 504 - Oral Interpretation of Literature and Language with the Young Credit Hours: 2 hrs
- RDNG 506 - Storytelling Credit Hours: 3 hrs
- RDNG 514 - Literature for Young Adults Credit Hours: 2 hrs
- RDNG 655 - The Integrated Literacy Curriculum Credit Hours: 3 hrs
- RDNG 656 - Language Development, Literacy and the Young Child Credit Hours: 3 hrs
- RDNG 657 - Comprehension and the Content Areas Credit Hours: 3 hrs
- RDNG 658 - Reading and Writing and the Inquiry Process Credit Hours: 3 hrs

Note:

Footnote One:
Must take the one not taken in foundations area.

Footnote Two:
This concentration does not qualify a student to teach or receive an endorsement in special education.

Master of Arts in Social Foundations of Education (SFND)

Adviser: Joe Bishop, PhD.
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joe.bishop@emich.edu

Program Theme
The social foundations graduate program seeks students with a broad range of experience and goals both within and outside of professional education. SFND students are eager to explore issues pertaining to quality of life: social and ecological justice, globalization, and the ethics of teaching in schools and society. The goal of the program is to strengthen and inform a commitment to education for participatory democracy in a pluralistic society. Graduate students in social foundations are expected to assess the complex forces — economic, social and political— that shape the structure and control of education both nationally and internationally. Students also engage in a theoretical analysis of cultural diversity as it impacts the practices and processes of education and life in a democratic society. This program is in compliance with the Standards for Academic and Professional Instruction in Foundation of Education, Education Studies and Education Policy as defined by the American Educational Studies Association.

Program Description
Students pursuing the MA degree in social foundations of education may choose one of three concentrations; interdisciplinary cultural studies, democracy and EcoJustice education or teaching for diversity. The first concentration allows students of pursue individualized research interests; it provides an excellent preparation for advanced graduate study. The second concentration is more applied in focus and emphasizes: cultural diversity/multicultural education, gender, poverty/urban education, theoretical frameworks/practical applications, educational innovation and reform and environmental justice. The third concentration, EcoJustice Education emphasizes analyses of the increasing destruction of the world’s diverse ecosystems, languages and cultures by the globalizing and ethnocentric forces of Western consumer culture, and explores reforms within public schools and universities required to stem the tide of these problems.
All concentrations equip students with the skills in qualitative or quantitative research so that they can analyze the 
social implications of educational policy, and can better understand the cultural, political and ethical dimensions of 
education in a pluralistic society.

**Model**

Eastern Michigan University’s advanced professional education program promotes inquiry, advocacy and leadership in 
education for a diverse and democratic society.

**Admission Requirements**

1. Personal Statement;
2. Three letters of recommendation.

**Retention Requirements**

Retention requirements can be considered a mid-point check in the master’s degree program. It is necessary to 
successfully complete all retention requirements before proceeding with the remainder of the program.

To gain approval to proceed with exit requirements, each student must:

1. Complete a total of 12 but no more than 15 hours of graduate credit with an overall GPA of 3.0 or better;
2. In consultation with the adviser, establish a mid-point review committee consisting of three or four faculty 
   members, two of whom must be from social foundations;
3. Write a three-page interim prospectus which will include: (a) a statement of professional goals; (b) a self-
   assessment of professional development since entering the program; (c) an identification of key issues to be 
   pursued for the remainder of the program; and (d) a plan of action for the culminating experience;
4. Develop a portfolio that contains the prospectus described in number three, the approved program of study, 
   and three examples of graduate work to verify that the student is developing appropriate skills in research and 
   critical analysis; and
5. Make an oral presentation of the portfolio to the mid-point review committee (students are encouraged to 
   invite their peers to the meeting). If the student’s progress is judged unsatisfactory at the time of the mid-
   point review, a plan of remediation will be developed by the adviser in consultation with the student and the 
   mid-point review committee.

**Exit Requirements**

In order to graduate, each student is expected to:

1. Complete a minimum of 30 hours of graduate credit applicable to the program;
2. Maintain a minimum GPA of 3.0;
3. Successfully complete a thesis or take the advanced seminar, which will include a project or comprehensive 
   examination;
4. Fill out an application for graduation and obtain the adviser’s recommendation;
5. Meet all other requirements for a master’s degree adopted by the Office of Graduate Studies and Research ;
6. Complete an exit interview with two members of the social foundations faculty to discuss the strengths and 
   weaknesses of the master’s program.

**Curriculum Requirements:**

**Required Courses:** 15 hours

- SOFD 535 - Multicultural and International Education Credit Hours: 2 hrs
- SOFD 550 - Philosophy, Ethics and Teaching Credit Hours: 2 hrs
- SOFD 572 - The History of American Schooling and Literacy Credit Hours: 3 hrs
- SOFD 580 - Sociology of Education Credit Hours: 2 hrs

One course from the following:

- EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
- EDPS 677 - Methods in Quantitative Research Credit Hours: 3 hrs
- EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

One course from the following:

- SOFD 687 - Culminating Project Credit Hours: 3 hrs
- SOFD 692 - Thesis Credit Hours: 3 hrs
Restricted Electives: 15 hours

Select one option from the following:
Option A: Cultural Studies, Education and Urban Contexts

Restricted Elective Courses: 7-10 hours

Seven to ten hours from the following:

- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- SOFD 540 - Field Studies in Education Credit Hours: 1 hr
- SOFD 541 - Field Studies in Education Credit Hours: 2 hrs
- SOFD 542 - Field Studies in Education Credit Hours: 3 hrs
- SOFD 560 - Anthropology of Education Credit Hours: 2 hrs
- SOFD 570 - Women and Pedagogy: Life Histories Credit Hours: 3 hrs
- SOFD 573 - Black Experience and American Education Credit Hours: 2 hrs
- SOFD 581 - Gender and Education Credit Hours: 3 hrs
- SOFD 627 - Trends and Challenges in International Education Credit Hours: 2 hrs
- SOFD 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- SOFD 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs
- SOFD 661 - EcoJustice and Education Credit Hours: 3 hrs
- SOFD 682 - Workshop in Social Foundations Credit Hours: 1 hr
- SOFD 683 - Workshop in Social Foundations Credit Hours: 2 hrs
- SOFD 684 - Workshop in Social Foundations Credit Hours: 3 hrs
- WGST 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs

University Elective Courses: 7-10 hours

Seven to ten credits outside of social foundations selected in consultation with the adviser.

Option B: Teaching for Diversity and Democracy

Complete 15 hours, at least one course from each of Groups 1–3:

Group 1: Gender and Sexuality

- SOCL 515 - Sociology of Women Credit Hours: 3 hrs
- SOFD 570 - Women and Pedagogy: Life Histories Credit Hours: 3 hrs
- SOFD 581 - Gender and Education Credit Hours: 3 hrs
- SOFD 661 - EcoJustice and Education Credit Hours: 3 hrs
- WGST 515 - Sociology of Women Credit Hours: 3 hrs
- WGST 530 - Women in Film Credit Hours: 3 hrs
- WGST 550 - Feminist Thought Credit Hours: 3 hrs
- WGST 575 - Theories of Sexuality Credit Hours: 3 hrs
- WGST 581 - Gender and Education Credit Hours: 3 hrs

Group 2: Ethnicity and Social Class

- COUN 571 - Cross-cultural Counseling Credit Hours: 3 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- HIST 529 - History of Detroit Credit Hours: 2 hrs
- HIST 531 - Studies in Black History Credit Hours: 3 hrs
- HIST 532 - Studies in Native American History Credit Hours: 3 hrs
- SOFD 560 - Anthropology of Education Credit Hours: 2 hrs
- SOFD 573 - Black Experience and American Education Credit Hours: 2 hrs
- WGST 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs

Group 3: Theory and Practice:

- CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
- CURR 655 - Curriculum Foundations Credit Hours: 3 hrs
- CURR 664 - Multicultural Curriculum Development Credit Hours: 3 hrs
• CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs
• ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
• SOFD 540 - Field Studies in Education Credit Hours: 1 hr
• SOFD 541 - Field Studies in Education Credit Hours: 2 hrs
• SOFD 542 - Field Studies in Education Credit Hours: 3 hrs
• SOFD 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
• SOFD 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs
• SOFD 682 - Workshop in Social Foundations Credit Hours: 1 hr
• SOFD 683 - Workshop in Social Foundations Credit Hours: 2 hrs
• WGST 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs

Option C: EcoJustice and Education

Required Courses: 6 hours

• SOFD 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs
• SOFD 661 - EcoJustice and Education Credit Hours: 3 hrs
• WGST 660 - Teaching for Social and Ecological Justice Credit Hours: 3 hrs

Restricted Elective Courses: 9 hours

Nine hours from the following:

• GEOG 531 - American Cultural Landscapes Credit Hours: 2 hrs
• SOFD 540 - Field Studies in Education Credit Hours: 1 hr
• SOFD 541 - Field Studies in Education Credit Hours: 2 hrs
• SOFD 542 - Field Studies in Education Credit Hours: 3 hrs
• SOFD 560 - Anthropology of Education Credit Hours: 2 hrs
• SOFD 684 - Workshop in Social Foundations Credit Hours: 3 hrs
• WGST 526 - Topics in Feminist Philosophy Credit Hours: 3 hrs

Program Total: 30 hours

Master of Arts in Urban/Diversity Education

Foundation Courses: 14 hours

• AAS 541 - Law, Race and Community Credit Hours: 3 hrs
• CURR 652 - Introduction to Urban/Diversity Education Credit Hours: 2 hrs
• CURR 653 - Introduction to Curriculum Portfolios Credit Hours: 1 hr
• CURR 654 - Multicultural Teaching and Learning Credit Hours: 3 hrs
• EDPS 600 - Human Development Credit Hours: 2 hrs

One course from the following:

• EDPS 667 - Principles of Educational Research Credit Hours: 3 hrs
• EDPS 687 - Qualitative/Interpretive Research Credit Hours: 3 hrs

Urban Ed. Cohort Course: 12 hours

• CURR 664 - Multicultural Curriculum Development Credit Hours: 3 hrs
• CURR 665 - Differentiation in the Classroom Credit Hours: 3 hrs
• CURR 674 - Creating Culturally Responsive Classrooms Credit Hours: 3 hrs

One course from the following:

• CURR 616 - Issues in Elementary School Curriculum Credit Hours: 3 hrs
• CURR 630 - Issues in Secondary School Curriculum Credit Hours: 3 hrs

Professional Courses: 6 hours
CURR 650 - Improving Instruction through Inquiry and Assessment Credit Hours: 3 hrs
CURR 687 - Internship in Teacher Education Credit Hours: 2 hrs
CURR 694 - Seminar: Common Learnings Credit Hours: 1 hrs

Program Total: 32 hours

Master of Arts Programs in Curriculum and Instruction

The curriculum and instruction area includes programs in elementary education, middle level education, secondary education and common learnings in curriculum.

Model
Eastern Michigan University’s advanced professional education program promotes inquiry, advocacy and leadership in education for a diverse and democratic society.

Admission Requirements
See general admission requirements in the Department of Teacher Education.

Retention Requirements
Students must successfully complete all retention requirements before proceeding with the remainder of the program.

1. Attendance at a program orientation.
2. From 15 to 18 hours of graduate credit, including CURR654 or CURR655 and required EDPS and SOFD courses, with an overall GPA of 3.0 or better.
3. A satisfactory assessment of written communication.

Students lacking the requirements must meet with the adviser to determine whether to withdraw from the program or apply for continuing eligibility by completing a plan of remediation.

Exit Requirements
To graduate, students must:

1. Complete an approved program of study with a GPA of 3.0 or better;
2. Successfully complete a culminating experience;
3. Apply for graduation and obtain the adviser’s recommendation; and
4. Meet all other Office of Graduate Studies and Research requirements for the degree.

Description of Programs
All programs in the area of curriculum and instruction require foundations courses, courses particular to the degree program and a culminating experience. Programs in elementary education, middle level education and secondary education require a culminating thesis or project. The program in common learnings culminates in a comprehensive exam.
College of Health and Human Services

**Interim Dean**
Deb deLaski-Smith
303 Everett L. Marshall Building
Phone: 734.487.0077

**Interim Associate Dean**
Murali Nair
305 Everett L. Marshall Building
Phone: 734.487.0077

**CHHS Advising**
300 Everett L. Marshall Building
Phone: 734.487.0918

**Administrative Assistant**
Judy Stokes
304 Everett L. Marshall Building
Phone: 734.487.0077

**Schools**
- Health Promotion and Human Performance
- Health Sciences
- Nursing
- Social Work

**Mission Statement**
Consistent with the University mission, the College of Health and Human Services partners with communities to prepare caring and competent professionals, generate knowledge and advocate for social justice in order to enhance quality of life, health and well being. We achieve this mission through:

- Providing a collaborative, hands-on community-based learning environment.
- Emphasizing intellectual rigor, ethics and cultural competence for professional practice in a diverse society.
- Our commitment to access and opportunity through flexible programming.
- Disciplinary and multidisciplinary scholarship applied to relevant social and health concerns.
- A faculty that engages in state of the art practice and provides leadership in the professions and the community.

The classrooms in Marshall have instructional technology controlled from a touch panel at the podium. Student tables and chairs are on casters so that rooms can easily be arranged to accommodate different teaching and learning styles, e.g., lecture, small group, large group or role-play. There are more than 1,000 network connections in the building to provide easy access to the Internet. Wireless internet access is now available throughout the building. Two student commons areas and a café in a two-story atrium space provide comfortable environments for studying or group work.

Laboratory spaces include the clinical lab sciences suite, two occupational therapy labs, a nursing skills lab, an assessment lab and a social work lab. A home care unit resembles an apartment; students can mock-up different home environments to simulate clients’ homes for delivery of home health care or to design supportive environments for people who are frail or disabled.

The Marshall Building houses the dean of the College of Health and Human Services, the School of Health Sciences, and the schools of Nursing and Social Work. The School of Health Promotion and Human Performance is located next door in the Porter Building (Room 318-319).

**Graduate Degrees and Certificate Programs**
The college offers the following graduate degrees and certificate programs in the various disciplines of health and human services. Admission and degree requirements for each of the programs can be found in the departmental sections of this catalog.

**Health Promotion and Human Performance**
MASTER OF SCIENCE in Health Education
MASTER OF SCIENCE in Physical Education Pedagogy
MASTER OF SCIENCE in Physical Education Interdisciplinary Adapted Physical Education
MASTER OF SCIENCE in Orthotics and Prosthetics
MASTER OF SCIENCE in Sports Management
MASTER OF SCIENCE in Exercise Physiology
GRADUATE CERTIFICATE in Orthotics or Prosthetics

**Health Sciences**
MASTER OF SCIENCE in Occupational Therapy
MASTER OF OCCUPATIONAL THERAPY
COMBINED BACHELOR OF SCIENCE and MASTER OF SCIENCE in Occupational Therapy
MASTER OF SCIENCE in Clinical Research Administration
MASTER OF SCIENCE in Human Nutrition
MASTER OF SCIENCE in Human Nutrition — Nutrition Therapy
MASTER OF SCIENCE in Human Nutrition — Aging
MASTER OF SCIENCE in Human Nutrition — Prevention
MASTER OF SCIENCE in Human Nutrition — Coordinated Program in Dietetics
GRADUATE CERTIFICATE in Clinical Research Administration
GRADUATE CERTIFICATE in Health Administration
GRADUATE CERTIFICATE in Public Budget Management

**Nursing**
MASTER OF SCIENCE in Nursing
GRADUATE CERTIFICATE in Quality Improvement in Health Care
GRADUATE CERTIFICATE in Teaching in Healthcare Systems
ADVANCED GRADUATE CERTIFICATE Post Master’s Adult Nurse Practitioner

**Social Work**
MASTER OF SOCIAL WORK
GRADUATE CERTIFICATE in Community Building
GRADUATE CERTIFICATE in Gerontology
GRADUATE CERTIFICATE in Dementia
GRADUATE CERTIFICATE in Nonprofit Management
School of Health Promotion and Human Performance Programs

Model
Eastern Michigan University’s advanced professional education programs develop leaders who demonstrate reflective thought and scholarship within the context of a culturally diverse society. The master of science in physical education and the master of science in health education develop advanced knowledge, values and skills as they relate to healthy lifestyles. The objective of the programs is to expand the professional knowledge, skills and leadership qualities of physical educators and exercise science and health professionals.

Graduate study in the School of Health Promotion and Human Performance includes the following master of science programs: health education (with concentrations in school health and community health), physical education (with concentrations in pedagogy and interdisciplinary adapted physical education), sport management, exercise science and orthotics/prosthetics. Post-graduate certificates in orthotics or prosthetics are also offered, as is a nondegree post-baccalaureate study for recertification credits and for nonphysical education master’s degree candidates.

Master of Science in Health Promotion and Human Performance Programs

Objectives
Upon completion of the master of science degree, students will:
1. Conduct and utilize research for problem solving;
2. Acquire skills and knowledge necessary to perform in a variety of leadership roles;
3. Develop an in-depth understanding of a specialty area within health education, physical education, sports medicine, sport management and orthotics and prosthetics;
4. Receive preparation for further graduate work at the doctoral level;
5. Have an opportunity to expand their professional involvement and leadership through participation in professional societies;
6. Receive preparation for diverse employment opportunities in appropriate agencies; and
7. Utilize philosophy when making decisions concerning professional and personal behaviors.

Admission Requirements
Applicants must:
1. Meet Graduate School admission requirements;
2. Hold an undergraduate degree from an accredited institution;
3. Have an undergraduate major/minor in physical or health education for the pedagogy track or an undergraduate major in an appropriate area for the remaining tracks;
4. Have a minimum 2.75 GPA;
5. Submit three professional letters of reference; and
6. Interview for assistantships; interviews for all other students may be required by individual programs.

Dismissal from Program Policy
A student may be subject to dismissal from graduate endorsement or degree programs in this department if the student:
1. Does not maintain a 3.0 (B) cumulative GPA overall or
2. Does not demonstrate by performance the reasonable aptitude, maturity, stability, skill and understanding necessary for success in the professional field; and/or
3. Does not demonstrate by performance the ability to build adequate interpersonal and professional relationships.
A student identified as being at risk for dismissal from the endorsement or degree programs will have the opportunity to meet with faculty in the program area to develop a plan for correction of any deficiency. The opportunity to correct deficiencies will not be extended beyond two enrollment periods.

The continuance or termination decision will be made by the faculty in the program area. Students may request a meeting with the faculty to apprise them of extenuating circumstances. The faculty decision will be final. The decision will be transmitted to the student in writing by the department. If the student is dismissed from the department’s program, the Office of Graduate Studies and Research will be notified to change the student’s admission status from degree admission status to that of a self-improvement student.

School of Health Promotion and Human Performance Programs and Courses

**Graduate Certificate**

**Graduate Certificate in Orthotics or Prosthetics**

**(ORTH/PROS)**

Core Courses: 31 hours

- CAE 567 - Plastics, Materials and Processes Credit Hours: 2 hrs
- SPMD 580 - Introduction to Orthotics and Prosthetics Credit Hours: 2 hrs
- SPMD 581 - Musculoskeletal Pathologies for Orthotics and Prosthetics Credit Hours: 3 hrs
- SPMD 582 - Kinesiology-Biomechanical Basis of Orthotic & Prosthetic Management Credit Hours: 3 hrs
- SPMD 605 - Clinical Gait Analysis — Credit Hours: 3 hrs
- SPMD 620 - Clinical Affiliation I Credit Hours: 2 hrs
- SPMD 630 - Research Methods for Orthotics and Prosthetics Credit Hours: 3 hrs
- SPMD 660 - Advanced Techniques and Procedures in Orthotics and Prosthetics Credit Hours: 2 hrs
- SPMD 665 - Administration of Orthotics and Prosthetic Facilities in the Public and Private Sectors Credit Hours: 2 hrs

Select from either Option I or Option II:

**Option I**

- SPMD 610 - Spinal and Upper Extremity Orthotics Credit Hours: 3 hrs
- SPMD 640 - Lower Extremity Orthotics I Credit Hours: 3 hrs
- SPMD 650 - Lower Extremity Orthotics II Credit Hours: 3 hrs

**Option II**

- SPMD 615 - Lower Extremity Prosthetics I Credit Hours: 3 hrs
- SPMD 645 - Lower Extremity Prosthetics II Credit Hours: 3 hrs
- SPMD 655 - Upper Extremity Prosthetics Credit Hours: 3 hrs

Certificate Total: 31 hours

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.
• HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
• HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
• HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
• PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
• SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
• SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
• SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
• THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

Master's

Master of Science in Exercise Physiology (EXP)

Adviser: Stephen McGregor, PhD.
734.487.0090
stephen.mcgregor@emich.edu

Core Courses: 18 hours

• HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs
• HPHP 677 - Research, Theory and Design in Health Promotion and Human Performance Credit Hours: 3 hrs
• SPMD 636 - Exercise Testing and Evaluation Credit Hours: 3 hrs
• SPMD 642 - Advanced Exercise Physiology I Credit Hours: 3 hrs
• SPMD 644 - Advanced Exercise Physiology II Credit Hours: 3 hrs
• SPMD 651 - Biomechanics of Human Motion Credit Hours: 3 hrs

Restricted Electives: 9 hours

Select a focused area of study of six hours in consultation with an adviser, and choose one free elective:

• Any course from BIOL, CHEM, DTC, PHED, PSY, SPMD or ZOOL as approved by a graduate adviser
• SPMD 430 Principles of Electrocardiography (3 hrs)
• SPMD 433 Principles of Strength and Conditioning (3 hrs)
• PHED 665 - Sport and Exercise Psychology Credit Hours: 3 hrs
• SPMD 515 - Diabetes and Obesity Credit Hours: 3 hrs
• SPMD 518 - Sports Supplements Credit Hours: 3 hrs
• SPMD 637 - Techniques of Exercise Prescription and Leadership Credit Hours: 3 hrs
• SPMD 688 - Internship Credit Hours: 3 hrs

Culmination Project: 6 hours

Select from either option I or option II:
A comprehensive exam must be taken in addition to either option.

* * *

Option I

• SPMD 690 Thesis Credit Hours: 1 hrs
• SPMD 691 Thesis Credit Hours: 2 hrs
• SPMD 692 Thesis Credit Hours: 3 hrs

Option II

• SPMD 689 - Internship Credit Hours: 6 hrs

Program Total: 33 hours
Notes:

Footnote One:
225-hour experience. Internship does not count toward culmination project.

Footnote Two:
Option I is recommended for students planning on pursuing doctoral degrees, Option II is recommended for students who did not perform an undergraduate internship or for students who require additional practical experience.

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
- HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
- HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
- PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
- SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
- SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
- SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
- THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

Master of Science in Health Education (HLTE)

Adviser: Susan McCarthy, PhD.
319W Porter
734 487 7120 ext. 2717
smccarthy@emich.edu

Research Core: 6-9 hours

Select from one of the following:

Thesis Option
- HLED 692 - Thesis in Health Education Credit Hours: 3 hrs
- HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs
- HPHP 677 - Research, Theory and Design in Health Promotion and Human Performance Credit Hours: 3 hrs

Graduate Project Option
- HLED 690 - Project in Health Education Credit Hours: 3 hrs
- HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs

Education Core: 21 hours

Select from one of the following:

School Health Education Core
- HLED 550 - Theoretical and Philosophical Foundations of Health Education Credit Hours: 3 hrs
- HLED 555 - Current Health Issues and Trends Credit Hours: 3 hrs
- HLED 558 - Health Education Methods and Materials Credit Hours: 3 hrs
- HLED 560 - School Health Education Programming and Curriculum Credit Hours: 3 hrs
- HLED 570 - Measurement in Health Education Credit Hours: 3 hrs
- HLED 575 - Implementation and Administration of Health Education Programs Credit Hours: 3 hrs
Community Health Education Core

- HLED 550 - Theoretical and Philosophical Foundations of Health Education Credit Hours: 3 hrs
- HLED 555 - Current Health Issues and Trends Credit Hours: 3 hrs
- HLED 558 - Health Education Methods and Materials Credit Hours: 3 hrs
- HLED 562 - Health Education Program Planning Credit Hours: 3 hrs
- HLED 570 - Measurement in Health Education Credit Hours: 3 hrs
- HLED 575 - Implementation and Administration of Health Education Programs Credit Hours: 3 hrs
- HLED 695 - Seminar in Health Education Credit Hours: 3 hrs

Suggested Elective Courses: 6-9 Hours

Six to nine credit hours as approved by health education adviser. See footnote below

- HLED 565 - Women’s Health Credit Hours: 3 hrs
- HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
- HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
- HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs

Program Total: 36 hours

Note:

Footnote:

Elective hours can come from HLED courses or other health-related courses offered by other programs and departments. These electives are selected with guidance and approval of the assigned health education adviser.

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
- HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
- HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
- PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
- SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
- SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
- SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
- THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

Master of Science in Orthotics and Prosthetics (ORPR)

Adviser: Robert Rhodes, MPA.
734.487.7120 ext. 2724
rlrhodes@comcast.net

Admission Requirements

1. Bachelor’s degree from an academically accredited college or University with a cumulative GPA of 3.0 or higher on a 4 point scale.
2. Course work must include:
Six hours of Anatomy and Physiology or five hours combined course at EMU.
Three hours of Chemistry or Inorganic Chemistry.
Six hours of Math; college Algebra and Trigonometry are recommended.
Three hours of Physics.
Three hours of Psychology.

3. An undergraduate course in Statistics is recommended.

4. An undergraduate course in Medical Ethics is recommended.

5. Meet the requirements of the Graduate School (http://gradschool.emich.edu) and have a completed application on file.


7. Submission of three letters of recommendation. If you have volunteer experience in an orthotics and prosthetics facility, at least one of the letters must be from this source.

8. Submission of a 1,200-1,500 word essay explaining why you want to become an orthotist-prosthetist and why you wish to attend Eastern Michigan University.

Deadline for Submission
The completed application, transcripts and all other requirements must be completed and necessary paperwork received by EMU MSOP no later than the first Friday of May of each year.

Notification of Admission
- Candidates will be notified of either acceptance or non-acceptance no later than the last Friday in May each year.
- The non-accepted candidates who met the minimum admission standards will be ranked and may be contacted and offered admission if any of the initially admitted applicants decline acceptance.

Coursework
Didactic coursework is offered in the evenings and on the weekends. Clinical affiliations are offered on weekdays. This arrangement is ideal for the individual who needs to work part time while attending the program. Attempting to work full time is extremely difficult and is discouraged.

One track from the following:

Research Track:

Core Courses: 20 hours

- CAE 694 - Seminar Credit Hours: 2 hrs
- SPMD 580 - Introduction to Orthotics and Prosthetics Credit Hours: 2 hrs
- SPMD 581 - Musculoskeletal Pathologies for Orthotics and Prosthetics Credit Hours: 3 hrs
- SPMD 582 - Kinesiology-Biomechanical Basis of Orthotic & Prosthetic Management Credit Hours: 3 hrs
- SPMD 605 - Clinical Gait Analysis — Credit Hours: 3 hrs
- SPMD 620 - Clinical Affiliation I Credit Hours: 2 hrs
- SPMD 630 - Research Methods for Orthotics and Prosthetics Credit Hours: 3 hrs
- SPMD 660 - Advanced Techniques and Procedures in Orthotics and Prosthetics Credit Hours: 2 hrs
- SPMD 680 - Clinical Affiliation II Credit Hours: 2 hrs

Required Orthotics Courses: 9 hours

- SPMD 610 - Spinal and Upper Extremity Orthotics Credit Hours: 3 hrs
- SPMD 640 - Lower Extremity Orthotics I Credit Hours: 3 hrs
- SPMD 650 - Lower Extremity Orthotics II Credit Hours: 3 hrs

Required Prosthetics Courses: 9 hours

- SPMD 615 - Lower Extremity Prosthetics I Credit Hours: 3 hrs
- SPMD 645 - Lower Extremity Prosthetics II Credit Hours: 3 hrs
- SPMD 655 - Upper Extremity Prosthetics Credit Hours: 3 hrs

Required Thesis: 6 hours

- SPMD 690 - Thesis (1 hr)
• SPMD 691 - Thesis (2 hr)
• SPMD 692 - Thesis (3 hr)
• PHED 690 - Thesis Credit Hours: 1 hr
• PHED 691 - Thesis Credit Hours: 2 hrs
• PHED 692 - Thesis Credit Hours: 3 hrs

Program Total: 46 hours

Clinical Track:

See footnote below

Core Courses: 25 hours

• CAE 694 - Seminar Credit Hours: 2 hrs
• SPMD 580 - Introduction to Orthotics and Prosthetics Credit Hours: 2 hrs
• SPMD 581 - Musculoskeletal Pathologies for Orthotics and Prosthetics Credit Hours: 3 hrs
• SPMD 582 - Kinesiology-Biomechanical Basis of Orthotic & Prosthetic Management Credit Hours: 3 hrs
• SPMD 605 - Clinical Gait Analysis — Credit Hours: 3 hrs
• SPMD 620 - Clinical Affiliation I Credit Hours: 2 hrs
• SPMD 630 - Research Methods for Orthotics and Prosthetics Credit Hours: 3 hrs
• SPMD 660 - Advanced Techniques and Procedures in Orthotics and Prosthetics Credit Hours: 2 hrs
• SPMD 665 - Administration of Orthotics and Prosthetic Facilities in the Public and Private Sectors Credit Hours: 2 hrs
• SPMD 680 - Clinical Affiliation II Credit Hours: 2 hrs
• SPMD 699 - Independent Study Credit Hours: 3 hrs

Required Orthotics Courses: 9 hours

• SPMD 610 - Spinal and Upper Extremity Orthotics Credit Hours: 3 hrs
• SPMD 640 - Lower Extremity Orthotics I Credit Hours: 3 hrs
• SPMD 650 - Lower Extremity Orthotics II Credit Hours: 3 hrs

Required Prosthetics Courses: 9 hours

• SPMD 615 - Lower Extremity Prosthetics I Credit Hours: 3 hrs
• SPMD 645 - Lower Extremity Prosthetics II Credit Hours: 3 hrs
• SPMD 655 - Upper Extremity Prosthetics Credit Hours: 3 hrs

Program Total: 46 hours

Note:

Footnote:
Students who select the clinical track must take a comprehensive exam for the completion of their program.

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
• HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
• HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
• PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
• SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
• SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
• SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
• THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

**Master of Science in Physical Education - Interdisciplinary**

**Adapted Physical Education (PEAD)**

**Core Courses:** 8, 9 or 12 hours

- HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs
- HPHP 677 - Research, Theory and Design in Health Promotion and Human Performance Credit Hours: 3 hrs

Select from either option I or option II:

**Option I**

- PHED 690 - Thesis Credit Hours: 1 hr
- PHED 691 - Thesis Credit Hours: 2 hrs
- PHED 692 - Thesis Credit Hours: 3 hrs

**Option II**

- PHED 698 - Independent Study Credit Hours: 2 hrs
- PHED 699 - Independent Study Credit Hours: 3 hrs

**Adapted physical education:** 9-12 hours

*Nine to 12 hours from the following:*

- PHED 500 - Philosophical and Ethical Issues in Physical Education Credit Hours: 3 hrs
- PHED 581 - Physical Education for Students with Disabilities Credit Hours: 3 hrs
- PHED 583 - Teaching Effectiveness in Physical Education Credit Hours: 3 hrs
- PHED 584 - Physical Education Curriculum and Instructional Design Credit Hours: 3 hrs

**Special education cognate courses:** 9 hours

- SPGN 510 - Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs
- SPGN 615 - Social Psychology of Disability: Family, School, and Society Credit Hours: 3 hrs

One course from the following:

- SPCI 557 - Cognitive Impairment Theory Credit Hours: 4 hrs
- SPGN 511 - Instruction and Management of Students with Disabilities in the General Education Classroom Credit Hours: 3 hrs

**Cognates Courses:** 4-7 hours

*Four to seven hours selected from early childhood, social work, sociology and criminology areas:*

- CRM 506 - Criminology Credit Hours: 3 hrs
- CRM 507 - Criminal Justice in Contemporary Society Credit Hours: 2 hrs
- CRM 513 - Social Deviance Credit Hours: 3 hrs
- ECE 601 - Helping Young Children in Crisis Through Curricular Activities Credit Hours: 2 hrs
- ECE 610 - Family, School and Community Partnerships in Early Childhood Education Credit Hours: 2 hrs
- ECE 618 - Play and Human Development Credit Hours: 2 hrs
- ECE 641 - Developmental Assessment of the Young Child: Theory and Practice Credit Hours: 2 hrs
- EDPS 617 - Children in Poverty: Educational Implications Credit Hours: 2 hrs
- SOCL 500 - Man in Society Credit Hours: 2 hrs
- SOCL 502 - Racial and Cultural Minorities Credit Hours: 3 hrs
- SOCL 503 - The Family as an Institution Credit Hours: 3 hrs
- SOCL 508 - Social Psychology Credit Hours: 2 hrs
- SOCL 509 - Personality and Social Systems Credit Hours: 2 hrs
Program Total: 33 hours

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
- HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
- HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
- PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
- SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
- SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
- SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
- THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

Master of Science in Physical Education Pedagogy (PEP)

Core Courses: 8, 9 or 12 hours

- HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs
- HPHP 677 - Research, Theory and Design in Health Promotion and Human Performance Credit Hours: 3 hrs

Select from either Option I or Option II:

Option I: 6 hours

- PHED 690 - Thesis Credit Hours: 1 hr
- PHED 691 - Thesis Credit Hours: 2 hrs
- PHED 692 - Thesis Credit Hours: 3 hrs

Option II: 2-3 hours

- PHED 698 - Independent Study Credit Hours: 2 hrs
- PHED 699 - Independent Study Credit Hours: 3 hrs

Pedagogy emphasis area courses: 15 hours

- PHED 500 - Philosophical and Ethical Issues in Physical Education Credit Hours: 3 hrs
- PHED 581 - Physical Education for Students with Disabilities Credit Hours: 3 hrs
- PHED 583 - Teaching Effectiveness in Physical Education Credit Hours: 3 hrs
- PHED 584 - Physical Education Curriculum and Instructional Design Credit Hours: 3 hrs
- PHED 585 - Mentoring and Supervision in Physical Education Credit Hours: 3 hrs

Suggested Elective Courses: 6-13 hours

Six to thirteen hours selected in consultation with the graduate adviser:

- EDLD 660 - Grantwriting Credit Hours: 2 hrs
- EDPS 660 - Grantwriting Credit Hours: 2 hrs
- HLED 546 - Alcohol Use and Abuse Credit Hours: 2 hrs
- LAW 511 - Sports Law Credit Hours: 3 hrs
- PHED 521 - Legal Liability of Educators and Athletic Coaches Credit Hours: 2 hrs
- PHED 550 - Applied Physical Education Technologies Credit Hours: 3 hrs
- PHED 566 - Sport in American Society Credit Hours: 3 hrs
- PHED 568 - Evaluation and Implementation of Physical Fitness Programs Credit Hours: 3 hrs
• PHED 578 - Motor Development and Learning Credit Hours: 3 hrs
• PHED 580 - Comparative Physical Education Credit Hours: 3 hrs
• PHED 582 - Skill Analysis Credit Hours: 3 hrs
• PHED 592 - Special Topics Credit Hours: 3 hrs
• PHED 665 - Sport and Exercise Psychology Credit Hours: 3 hrs
• PHED 687 - Internship Credit Hours: 2 hrs

Cognate Courses: 0-4 hours

Select in consultation with a graduate academic adviser: Possibilities include graduate level courses in Curriculum, Psychology, Dietetics, Sport Management, Health, Special Education, etc.

Program Total: 33 hours

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
• HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
• HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
• PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
• SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
• SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
• SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
• THRC 481 - Adapted Aquatics Credit Hours: 2 hrs

Master of Science in Sport Management (SPMG)

Adviser: Brenda Riemer, PhD.
734.487.0090
briemer@emich.edu

Objectives
Upon completion of the master of science degree, students will:
1. Conduct and utilize research for problem solving;
2. Acquire skills and knowledge necessary to perform in a variety of sport administrative/management roles;
3. Develop in-depth understanding of sport administration;
4. Receive preparation for future graduate work at the doctoral level;
5. Receive preparation for diverse employment opportunities; and
6. Utilize ethics when making decisions concerning professional and personal behaviors.

Core Courses: 24-30 hours

• HPHP 505 - Basic Statistics in Health Promotion and Human Performance Credit Hours: 3 hrs
• HPHP 677 - Research, Theory and Design in Health Promotion and Human Performance Credit Hours: 3 hrs
• PHED 698 - Independent Study Credit Hours: 2 hrs
• SMGT 502 - Introduction to Sport Management Credit Hours: 3 hrs
• SMGT 562 - Facility Planning and Development Credit Hours: 3 hrs
• SMGT 564 - Planning and Promoting Events in Physical Education and Sport Credit Hours: 3 hrs
• SMGT 566 - Financial Administration of Physical Education and Athletics Credit Hours: 3 hrs
• SMGT 568 - Human Resources for Physical Education and Sport Credit Hours: 3 hrs
Select from either Option I or Option II:

Option I:

• PHED 692 - Thesis Credit Hours: 3 hrs
(6 hours total)

Option II:

• Comprehensive Exam (must take three additional credit hours)

Approved Electives for the Sport Management Masters Program: 6-9 hours

• EDLD 510 - Educational Organization Credit Hours: 3 hrs
• EDLD 514 - Organization and Administration of K-12 Schools Credit Hours: 3 hrs
• EDLD 612 - Economics of Public Education Credit Hours: 3 hrs
• EDLD 613 - Introduction to Higher Education Credit Hours: 3 hrs
• EDLD 622 - Organization and Administration of Higher Education Credit Hours: 3 hrs
• LAW 511 - Sports Law Credit Hours: 3 hrs
• MGMT 505 - Organizational Theory and Behavior and Business Communication Credit Hours: 3 hrs
• MGMT 560 - Management Skills Credit Hours: 3 hrs
• MGMT 604 - Strategic Communication and Ethical Decision-Making Credit Hours: 3 hrs
• MGMT 613 - Leadership in Business Organizations: Theory and Practice Credit Hours: 3 hrs
• MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs
• PHED 566 - Sport in American Society Credit Hours: 3 hrs
• PHED 665 - Sport and Exercise Psychology Credit Hours: 3 hrs
• SMGT 511 - NCAA Compliance Credit Hours: 3 hrs
• SMGT 560 - Ethics in Sport Management Credit Hours: 3 hrs
• SMGT 597 - Independent Study Credit Hours: 1 hr
• SMGT 598 - Independent Study Credit Hours: 2 hrs
• SMGT 599 - Independent Study Credit Hours: 3 hrs

Service Learning Experience

Four volunteer events per year are required. Each fall/winter the coordinator will have a list options, both on campus and off-campus.

Program Total: 33-36 hours

Undergraduate Courses for Graduate Credit: School of Health Promotion and Human Performance

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Office of Graduate Studies and Research to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• HLED 460 - Concepts in Sexuality Education Credit Hours: 3 hrs
• HLED 490 - Drug Use and Abuse Credit Hours: 3 hrs
• HLED 495 - Health Education for Diverse Populations Credit Hours: 3 hrs
• PHED 470 - Assessment and Evaluation in Physical Education Credit Hours: 2 hrs
• SPMD 430 - Principles of Electrocardiography Credit Hours: 3 hrs
• SPMD 431 - Pathophysiology for Sports Medicine Credit Hours: 3 hrs
• SPMD 433 - Principles of Strength and Conditioning Credit Hours: 3 hrs
• THRC 481 - Adapted Aquatics Credit Hours: 2 hrs
Provisional Certification

Provisional Certification in Physical Education

Students seeking provisional teacher certification in physical education (K-12) must be admitted to the College of Education. Among the prerequisites for admission are a minimum undergraduate GPA of 2.5, a minimum GPA of 2.75 in the teaching major, and a letter of recommendation. In addition, applicants are required to pass the Michigan Test for Teacher Certification (MTTC) basic skills test.

Students seeking provisional certification will complete a planned program of studies leading toward K-12 certification in physical education. Students must also complete an approved minor in a secondary subject area. Additionally, once course work is completed, students must pass the MTTC.
School of Health Sciences Programs

School of Health Sciences

Address: 313 Marshall
Phone: 734.487.4096
E-mail: efrancis@emich.edu
Web site: http://www.emich.edu/hs/

The School of Health Sciences offers six graduate programs:

- Master of Occupational Therapy (M.O.T.) for those students with a bachelor’s degree in another field;
- A combined Bachelor of Sciences and Master of Science in Occupational Therapy (3+2);
- Master of Science in Human Nutrition;
- Master of Science in Human Nutrition Coordinated Program; delivered online;
- Master of Science in Clinical Research Administration;
- Master of Health Administration.

School of Health Sciences Programs and Courses

Combined

Combined Bachelor-Master's Degree in Occupational Therapy (OT-BMOT)

Established in 1941, Eastern Michigan University’s Occupational Therapy Program has a long-standing tradition of excellence. The EMU OT Program provides competent and caring professionals to the local community as well as throughout the state of Michigan and across the nation.

The Bureau of Labor Statistics Occupational Outlook Handbook, 2006-2007 edition, is predicting a greater than average employment need for occupational therapists through at least 2014. This is based on the general population growth and the increasing demand for services for those aged 75 years and older who are requiring occupational therapy services to improve their quality of life. In addition, emerging practice areas for occupational therapists, for example, in such areas as driver rehabilitation and fall prevention, continue to develop. Hospitals employ a large number of occupational therapists, while employment in schools grows. Other work sites include, but are not limited to: rehabilitation facilities, long-term care facilities, camps, home health care and industry.

The 3+2 Program

Our innovative 3+2 program combines three years of undergraduate coursework and two years of upper-level coursework. Students will graduate with both a bachelor of science (B.S.) and master of occupational therapy (M.O.T.) degree after completion of the program. Students who already have a bachelor’s degree in another field can enter the upper level portion of the program and earn a M.O.T. degree. After entrance into the upper-level OT courses, students can complete the full-time program in two and a half years, including six months of full-time field work.

Requirements for Continuance

Your admission to Eastern Michigan University does not guarantee continuance in the occupational therapy program. To be considered for admission in the program, you must meet the following requirements:
1. Completion of the following prerequisite courses with a grade of B or better in five of the six courses with a maximum of one C:

**Anatomy and Physiology**
ZOOL 201 Human Anatomy and Physiology I (3 hrs)
ZOOL 202 Human Anatomy and Physiology II (3 hrs)

**Neuroanatomy**
ZOOL 417 Neuroanatomy (3 hrs)

**Medical Terminology**
AHPR 200 Medical Terminology (1 hr)

**Statistics**
*One course from the following:*
EDPS 621 Statistical Applications in Educational Research (2 hrs)
EDPS 651 Inferential Statistics (2 hrs)
MATH 360 Statistical Methods (3 hrs)
MATH 370 Probability and Statistics I (4 hrs)
MATH 571 Mathematical Statistics I: Probability Theory (3 hrs)
MATH 574 Applied Statistics (3 hrs)
SOCL 250 Social Statistics I (3 hrs)

**Human Growth and Development**
*One course from the following:*
EDPS 325 Life Span Human Growth and Development (4 hrs)
IHHS 260 Aging to Infancy (3 hrs)

2. Cumulative GPA of 2.75 or higher.
3. Completion of 80 hours volunteer, work or service learning experience with individuals who have special needs in a variety of community settings such as home health agencies, schools, psychosocial clubhouses and rehabilitation clinics.
4. Completion of 90 credit hours.

**Upper-Level Screening Procedures**
In order to enter the upper level portion of the 3+2 program, students are required to submit a portfolio for review by the screening committee. The portfolio requirements include: résumé, transcripts from all colleges attended, references, documentation of work, volunteer or service-learning experience, narrative statement and an example of your best work (i.e. a paper, presentation or article). All prerequisite coursework and volunteer hours must be completed to begin the program in the following fall semester. Portfolios will be due for review Jan. 5 of every year to be considered for acceptance into the upper level portion of the program. Prior to starting the upper level portion, it is recommended to have all general education requirements completed.

**Points of Interest**
A minimum of six months of full-time supervised fieldwork is required. Field placements are recommended by faculty and arranged through the occupational therapy program.
In the spirit of advocacy and community involvement, occupational therapy students are encouraged to join EMU’s Student Occupational Therapy Association. If you are eligible, you may also join Pi Theta Epsilon, the honorary society for occupational therapy, and/or the Honors College.

**Scholarships**
The Occupational Therapy program offers a number of scholarships. For more information call 734.487.2280. There are a number of University scholarships also available. Contact the Office of Financial Aid for information at 734.487.0455.

**Accreditation**
Eastern Michigan University’s occupational therapy program is accredited by the Accreditation Council for
General Education Requirements: 40 hours

Additional Requirements: 16-17 hours

- AHPR 200 - Medical Terminology Credit Hours: 1 hr
- BIO 251 - Human Anatomy and Physiology I Credit Hours: 3 hrs
- BIO 252 - Human Anatomy and Physiology II Credit Hours: 3 hrs
- BIO 330 - Neuroanatomy Credit Hours: 3 hrs
- SOCL 250 - Quantitative Applications in Sociology Credit Hours: 3 hrs

One course from the following:

- EDPS 325 - Life Span Human Growth and Development Credit Hours: 4 hrs
- IHHS 226 - Computers for Health and Human Services Credit Hours: 3 hrs

Major Requirements: 66 hours

- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 420 - Level I Fieldwork I Credit Hours: 3 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs
- OCTH 500 - Philosophy of Occupational Therapy Credit Hours: 3 hrs
- OCTH 502 - Theory and Analysis of Occupation Credit Hours: 3 hrs
- OCTH 516 - Level I Community Fieldwork II Credit Hours: 3 hrs
- OCTH 517 - Level I Community Fieldwork III Credit Hours: 3 hrs
- OCTH 519 - Programming II Credit Hours: 6 hrs
- OCTH 540 - Research Methods I Credit Hours: 3 hrs
- OCTH 588 - Fieldwork Level II: Clinical Skills Credit Hours: 6 hrs
- OCTH 589 - Fieldwork Level II: Clinical Skills Credit Hours: 6 hrs
- OCTH 600 - Supervision and Professional Roles Credit Hours: 3 hrs
- OCTH 619 - Programming III Credit Hours: 6 hrs
- OCTH 686 - Culminating Project I Credit Hours: 3 hrs
- OCTH 687 - Culminating Project II Credit Hours: 3 hrs

Minor Requirements: 0 hours

No minor is required.

University Elective Courses: 24-25 hours

OCTH100 Orientation to Occupational Therapy, OCTH201 Exploring Occupational Performance in the Community and OCTH350 Exploring Occupational Performance in the Context of a Disability are strongly recommended. Please see an intent adviser for further recommended courses.

Program Total: 147 hours

Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level coursework may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
Graduate Certificate

Graduate Certificate in Clinical Research Administration (CRAD)

Adviser: Stephen Sonstein, PhD.
318 Marshall
734.487.1238
stephen.sonstein@emich.edu

Program Advising
The program provides students with both the knowledge base as well as practical experience in the process of new drug and medical device development. The courses and experiences will function to provide a base of competence that can be used by individuals to seek employment in the pharmaceutical industry and the academic clinical research environment, or by those currently employed by industry or academia, to gain additional competencies. The program consists of four courses offered in a format that meets the needs of the nontraditional and full-time employed student. Successful completion of the four courses with a GPA of 3.0 or above, qualifies a student for acceptance into a preceptorship experience where students work with clinical research associates, clinical research coordinators and clinical scientists in a work place setting to develop and polish monitoring skills.

The only prerequisite to the first course in the sequence is the possession of a baccalaureate degree and admission to the Office of Graduate Studies and Research.

Admission Requirements
Applicants must meet the Graduate Studies and Research degree admission requirements.

Certificate Requirements

The certificate requires 15 hours of course work to be distributed as follows:

- CLRA 510 - Introduction to Drug Development Credit Hours: 3 hrs
- CLRA 520 - Clinical Study Administration I Credit Hours: 3 hrs
- CLRA 530 - Clinical Study Administration II Credit Hours: 3 hrs
- CLRA 540 - Advanced Topics in Clinical Study Management Credit Hours: 3 hrs
- CLRA 550 - Preceptorship in Drug Development Credit Hours: 3 hrs

Certificate Total: 15 hours

Graduate Certificate in Health Administration (HLAD)

Required Courses: 6 hours

- HLAD 520 - Healthcare Management Theory Credit Hours: 3 hrs
- HLAD 524 - Healthcare Manager Strategies Credit Hours: 3 hrs

Restricted Electives: 6 hours

Six hours from the following: or any other elective courses selected in consultation with a graduate adviser

- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
• HLAD 511 - Health Law Credit Hours: 3 hrs
• HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs
• HLAD 521 - Healthcare Finance Credit Hours: 3 hrs
• HLAD 523 - Medical Practice Management Care Credit Hours: 3 hrs
• HLAD 525 - Quality Improvement in Health Care Credit Hours: 3 hrs
• HLAD 550 - Internship Credit Hours: 2 hrs

Certificate Total: 12 hours

Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
• OCTH 412 - Models of Practice Credit Hours: 3 hrs
• OCTH 419 - Programming I Credit Hours: 6 hrs
• OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs

Master’s

Master of Occupational Therapy (MOT)

Advisers:

Andrea Perkey, MA, OTR
316 Marshall
734.487.2381
aweid@emich.edu

Valerie Howells, PhD., OTR
353 Marshall
734.487.3227
valeria.howells@emich.edu

Entering the Occupational Therapy Program

There are two different means of entering the occupational therapy program. A competitive application process is utilized to select students. Please be aware that admission to Eastern Michigan University as well as successful completion of undergraduate courses does not guarantee entry into the Occupational Therapy program. A minimum cumulative GPA of 2.75 is required to be considered for admission.

The Combined Bachelor-Master’s Degree in Occupational Therapy:

The 3+2 track is designed for undergraduate students and combines three years of undergraduate general education classes with two years of graduate coursework in occupational therapy. This track culminates in a Bachelor of Science degree and a Masters of Occupational Therapy (MOT) degree. Undergraduates accepted into the program must have successfully completed 90 undergraduate credits by August 1 in order to begin the program in the Fall of the year in which they applied.
The Masters of Occupational Therapy Degree:
The MOT track is designed for individuals who have already completed an undergraduate degree in a field other than occupational therapy. This track requires the student to complete two years of graduate coursework in occupational therapy and culminates in a Masters of Occupational Therapy (MOT) degree.

Required Prerequisite Courses:
In order to be considered for admission to the occupational therapy program, a student must complete the following prerequisite courses with a grade of B- or better. If you have previously taken these courses at another university please note that all prerequisite substitutions must be pre-approved before the submission of your portfolio. Submission of your portfolio without prior approval will result in your application being denied.

- **Anatomy & Physiology**
  * ZOOL 201 Human Anatomy and Physiology I (3 hrs)
  * ZOOL 202 Human Anatomy and Physiology II (3 hrs)

- **Neuroanatomy**
  * ZOOL 316 Neuroanatomy (4 hrs)

- **Medical Terminology**
  * AHPR 200 Medical Terminology (1 hr)

- **Statistics**
  * All of the following EMU courses meet this requirement: SOCL 250, EDPS 621, EDPS 651, Math 170, 360, 370, 571, 573, 574, or PSY 205

- **Human Growth and Development**
  * IHHS 260 Aging to Infancy: A life course retrospective (3 hrs); or
  * EDPS 325 Life Span Human Growth and Development (4 hrs)

*These four courses must be completed by the application deadline. The remaining two must be completed by August 1 of the year you intend to begin the program.

Application Process:
The competitive admission process consists of a review of portfolios by a Screening Committee comprised of faculty and staff in the Occupational Therapy Program. Portfolios are accepted once a year on January 5 for students interested in beginning the program in the Fall semester of that year. No late submissions are accepted. The portfolio must include the following items: official college transcripts from all schools attended, results of the Graduate Record Exam (GRE), one academic reference, documentation of 100 hours of completed volunteer service with two references from these experiences, and an exemplar of reflective writing. For complete details of portfolio requirements students should check the program website.

International Students:
International students must contact the International Admissions office at 734.487.0205. They will assist in the evaluation of transcripts and determine your cumulative GPA. International students must provide a copy of the EMU Graduate School approved TOEFL score in their application portfolio.

Fieldwork:
A minimum of six months of full time supervised fieldwork is required at the conclusion of the academic program. Fieldwork placements are recommended by faculty and arranged through the Occupational Therapy program.

Scholarships:
The Occupational Therapy program offers a number of scholarships to students who are admitted to the program. For more information contact the OT program at 734.487.4096. There are also a number of University scholarships available to students. Contact the office of Financial Aid for information.

Accreditation:
The EMU OT Program is accredited by the American Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, Telephone number 301.652.AOTA. Upon completion of the academic and fieldwork portions of the program, graduates are eligible to sit for the national certification exam administered by the National Board for
Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an occupational therapist, registered (OTR). All students admitted to the MOT program who successfully complete the academic program are required to take the NBCOT Certification exam in order to practice occupational therapy. Character background information is reviewed by NBCOT to determine a person’s ability to sit for the examination. If you have any previous circumstances, such as a felony charge or conviction, an encumbrance of professional license or negligence, malpractice or willful intentional misconduct, we strongly recommend that you contact Paul Grace at NBCOT for a free, confidential early determination of your ability to sit for the national exam:

Paul Grace, MS, CAE
Executive Director, NBCOT
Phone: 301.990.7979 ext. 3130
paul.grace@nbcot.org

Prerequisite Courses: 15-17 hours

- BIO 251 - Human Anatomy and Physiology I Credit Hours: 3 hrs
- BIO 252 - Human Anatomy and Physiology II Credit Hours: 3 hrs
- BIO 330 - Neuroanatomy Credit Hours: 3 hrs

One course from the following:

- EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs
- EDPS 651 - Inferential Statistics Credit Hours: 2 hrs
- MATH 360 - Statistical Methods Credit Hours: 3 hrs
- MATH 370 - Probability and Statistics I Credit Hours: 4 hrs
- MATH 571 - Mathematical Statistics I: Probability Theory Credit Hours: 3 hrs
- MATH 574 - Applied Statistics Credit Hours: 3 hrs
- SOCL 250 - Quantitative Applications in Sociology Credit Hours: 3 hrs

One course from the following:

Foundation Core: 33 hours

- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs
- OCTH 500 - Philosophy of Occupational Therapy Credit Hours: 3 hrs
- OCTH 502 - Theory and Analysis of Occupation Credit Hours: 3 hrs
- OCTH 519 - Programming II Credit Hours: 6 hrs
- OCTH 540 - Research Methods I Credit Hours: 3 hrs

Master of Occupational Therapy Core Courses: 33 hours

- OCTH 516 - Level I Community Fieldwork II Credit Hours: 3 hrs
- OCTH 517 - Level I Community Fieldwork III Credit Hours: 3 hrs
- OCTH 588 - Fieldwork Level II: Clinical Skills Credit Hours: 6 hrs
- OCTH 589 - Fieldwork Level II: Clinical Skills Credit Hours: 6 hrs
- OCTH 600 - Supervision and Professional Roles Credit Hours: 3 hrs
- OCTH 619 - Programming III Credit Hours: 6 hrs
- OCTH 686 - Culminating Project I Credit Hours: 3 hrs
- OCTH 687 - Culminating Project II Credit Hours: 3 hrs

Program Total: 81-83 hours

Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.
If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs

**Master of Science in Clinical Research Administration (CRAD)**

In recent years, there has been tremendous growth in pharmaceutical and medical device research and development. This growth has been in the traditional pharmaceutical companies and in the emerging biotechnology industry. Many factors have fueled this expansion, including the emergence of new discovery and manufacturing technologies, new drug therapies, the Human Genome Project, high throughput screening and the need for new pharmaceuticals that has been generated by population growth and the aging of the “baby boom” generation. In 2004, a record $45 billion was invested in pharmaceutical research in the United States. In order to conduct this growing clinical research enterprise, there needs to be an expanded and better qualified workforce. This workforce must possess the knowledge, skills, attitudes and abilities necessary to accomplish the tasks of coordinating and monitoring clinical studies as well as managing data and interfacing with the regulatory agencies. Eastern Michigan University developed one of the first academic programs designed to produce individuals credentialed to function in the area of Clinical Research Administration and is now a national leader in the area.

The mission of EMU’s Clinical Research Administration Program is twofold: a) to provide an opportunity for professionals participating in the drug/device development process to increase their knowledge base as well as their research/creative skills. This should provide a pathway for upward mobility in their professional careers within the drug/device research and development industry; b) to provide an academic experience which includes both didactic information and hands-on preceptorships in order to provide qualified new personnel to the drug development industry.

Toward this end, EMU has developed two interlinked programs. The postbaccalaureate certificate in clinical research administration consists of four courses which provide information concerning the drug development process, good clinical practice (GCP), federal regulations and guidelines (United States and international), clinical research protocol development, implementation and monitoring. Courses are offered in a format which suits the nontraditional student and allow the student with a full-time job to complete the courses while continuing to work. Upon satisfactory completion of the didactic component of the program, students may apply for admission into a hands-on preceptorship experience with contract research organizations, pharmaceutical firms and clinical facilities which collaborate with the program.

The master’s degree in clinical research administration is designed for individuals who are already employed in the industry and desire increased perspective, competency and a higher level of responsibility. The four required courses in the certificate program are supplemented with program electives, cognate electives and a project or thesis.

EMU’s clinical research administration program is fortunate to have the support and collaboration of the following organizations:

- Pfizer, Inc.
- i3 STATPROBE, Inc.
- Consortium of Academic Programs in Clinical Research
- Oakwood Hospital
- Borgess Research Institute
- Providence Hospital
- University of Michigan Hospital
Admission Requirements

1. Documentation that a baccalaureate degree has been earned must be presented
2. Undergraduate GPA above 2.75
3. A degree in the health professions is suggested, although not required
4. The GRE is not required
5. Two letters of support.
6. A statement of career objectives.

One may apply for admission to the program by requesting an application from the Office of Admissions by calling 800.GO-TO-EMU, 734.487.3060 or via www.emich.edu/admissions

Students may register for up to six graduate credits without being formally accepted into a graduate program. These credits may later apply to a degree or certificate once the student is accepted into the program. Students who wish to take courses in this manner should register as self-improvement students through Continuing Education.

Required Courses: 13 hours

- CLRA 510 - Introduction to Drug Development Credit Hours: 3 hrs
- CLRA 520 - Clinical Study Administration I Credit Hours: 3 hrs
- CLRA 530 - Clinical Study Administration II Credit Hours: 3 hrs
- CLRA 540 - Advanced Topics in Clinical Study Management Credit Hours: 3 hrs
- CLRA 601 - Graduate Seminar in Drug Development Credit Hours: 1 hr

Elective Courses: 18 hours

18 hours from the following:

- BIO 542 - Molecular Genetics Credit Hours: 3 hrs
- CHEM 411 - Toxicology I Credit Hours: 2 hrs
- CHEM 412 - Toxicology II Credit Hours: 3 hrs
- CHEM 515 - Industrial and Environmental Chemistry Credit Hours: 3 hrs
- CHEM 555 - Neurochemistry Credit Hours: 3 hrs
- CHEM 571 - Advanced Organic Chemistry Credit Hours: 3 hrs
- CLRA 550 - Preceptorship in Drug Development Credit Hours: 3 hrs
- CLRA 561 - Legal Issues in Drug Development Credit Hours: 2 hrs
- CLRA 571 - Grant and Contract Management for Research Project Administrators Credit Hours: 3 hrs
- CLRA 581 - Regulatory Affairs in Drug Development I Credit Hours: 3 hrs
- CLSC 501 - Fundamentals of Epidemiology Credit Hours: 3 hrs
- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- HLAD 511 - Health Law Credit Hours: 3 hrs
- NURS 500 - Advanced Pathophysiology Credit Hours: 3 hrs
- OCTH 540 - Research Methods I Credit Hours: 3 hrs

Thesis or Project: 3-6 hours

One course from the following:

- CLRA 690 - Thesis Credit Hours: 1 hr
- CLRA 691 - Thesis Credit Hours: 2 hrs
- CLRA 692 - Thesis Credit Hours: 3 hrs
- CLRA 695 - Special Project in Clinical Research Administration Credit Hours: 3 hrs

Program Total: 34-40 hours
The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs

**Master of Science in Human Nutrition (NUTR)**

Department Courses: 17-33 hours

Required Courses: 8 hours

- DTC 500 - Research Design and Methods Credit Hours: 2 hrs
- DTC 618 - Advanced Topics in Nutrition Credit Hours: 3 hrs
- DTC 648 - Methods and Strategies for Community-Based Nutrition Services Credit Hours: 3 hrs

Supporting Nutrition and Foods: 3-19 hours

- DTC 509 - Nutrition Support Credit Hours: 3 hrs
- DTC 518 - Interdisciplinary Team Functions Credit Hours: 3 hrs
- DTC 538 - Outcomes Management Credit Hours: 3 hrs
- DTC 608 - Advanced Topics in Foods Credit Hours: 3 hrs
- DTC 628 - Medical Nutrition Therapy Credit Hours: 3 hrs
- DTC 638 - Cultural Nutrition and Nutritional Ecology Credit Hours: 3 hrs
- DTC 658 - Nutrition and Aging Credit Hours: 3 hrs
- DTC 659 - Development of the Entrepreneurial Dietitian Credit Hours: 3 hrs
- DTC 668 - Proteins, Lipids and Carbohydrates Credit Hours: 3 hrs
- DTC 669 - Vitamins and Minerals Credit Hours: 3 hrs

Course options that must be arranged with a program advisor

- DTC 590 - Special Topics Credit Hours: 1 hr
- DTC 591 - Special Topics Credit Hours: 2 hrs
- DTC 592 - Special Topics Credit Hours: 3 hrs
- DTC 597 - Independent Study Credit Hours: 1 hr
- DTC 598 - Independent Study Credit Hours: 2 hrs
- DTC 599 - Independent Study Credit Hours: 3 hrs
- DTC 607 - Colloquium Credit Hours: 2 hrs
- DTC 679 - Special Topics Credit Hours: 1 hr
- DTC 680 - Special Topics Credit Hours: 2 hrs
- DTC 681 - Special Topics Credit Hours: 3 hrs
- DTC 683 - Workshop Credit Hours: 2 hrs
- DTC 686 - Practicum Credit Hours: 1 hr
- DTC 687 - Practicum Credit Hours: 2 hrs
- DTC 688 - Practicum Credit Hours: 3 hrs
- DTC 689 - Practicum Credit Hours: 4 hrs
- DTC 697 - Independent Study Credit Hours: 1 hr
- DTC 698 - Independent Study Credit Hours: 2 hrs
- DTC 699 - Independent Study Credit Hours: 3 hrs

Culminating Experience: 6 hours

Select from either Option I or Option II:

Option I: Thesis

This degree involves completion of 24 semester hours of course work and six credit hours of thesis.
- DTC 690 - Thesis I Credit Hours: 1 hr
- DTC 691 - Thesis II Credit Hours: 2 hrs
- DTC 692 - Thesis III Credit Hours: 3 hrs

Option II: Research

This non-thesis option requires 30 hours of course work and a six credit hour, research project of publishable quality.
- DTC 600 - Research I Credit Hours: 2 hrs
- DTC 650 - Research II Credit Hours: 1 hr
- DTC 695 - Research III Credit Hours: 3 hrs

Cognate Courses: 3-19 hours

Required Course: 3 hours
- MATH 592 - Special Topics Credit Hours: 3 hrs

Supporting Courses: 0-16 hours

Course options outside the Human Nutrition Department must be arranged with the program adviser.
- ACC 646 - Financial Management of Nonprofit Organizations Credit Hours: 3 hrs
- EDLD 611 - Introduction to Adult and Continuing Education Credit Hours: 3 hrs
- EDMT 623 - Instructional Design and Development of Multimedia Instructional Materials Credit Hours: 3 hrs
- EDPS 600 - Human Development Credit Hours: 2 hrs
- LAW 503 - Law, Enterprise and Ethics Credit Hours: 3 hrs
- MGMT 570 - New Venture Creation Credit Hours: 3 hrs
- QUAL 549 - Problem Solving for Quality Improvement Credit Hours: 2 hrs
- QUAL 556 - Human Aspects of Continuous Improvement Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs

Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.
- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs

Master of Science in Human Nutrition - Coordinated Program in Dietetics (DTCC)
Admission Requirements

1. Meet EMU Graduate Studies and Research and departmental admission requirements.
2. Application fee ($30).
3. GPA of 2.75 or above with completion of undergraduate human nutrition, food science, general chemistry, organic chemistry, statistics, microbiology, general biology, anatomy and physiology, biochemistry medical terminology, human growth and development, nutrition life cycle and careers in nutrition and dietetics (portfolio development). Student may be admitted conditionally to complete any deficiencies.
4. Program application (please see distance education web site www.emuonline.edu for materials).
5. Completed forms for each preceptor and facility (see www.emuonline.edu for forms).

Required Courses: 11 hours

- DTC 500 - Research Design and Methods Credit Hours: 2 hrs
- DTC 608 - Advanced Topics in Foods Credit Hours: 3 hrs
- DTC 618 - Advanced Topics in Nutrition Credit Hours: 3 hrs
- DTC 628 - Medical Nutrition Therapy Credit Hours: 3 hrs

Required Supporting Courses: 20 hours

- DTC 551 - Nutrition Therapy I Experience Credit Hours: 2 hrs
- DTC 571 - Nutrition Therapy II Experience Credit Hours: 4 hrs
- DTC 631 - Nutrition Therapy III Experience Credit Hours: 4 hrs
- DTC 651 - Food Systems Management II Experience Credit Hours: 4 hrs
- DTC 671 - Nutrition Therapy IV Experience Credit Hours: 4 hrs

Culminating Experience: 6 hours

Select from either option I or option II:

Option I

- DTC 690 - Thesis I Credit Hours: 1 hr
- DTC 691 - Thesis II Credit Hours: 2 hrs
- DTC 692 - Thesis III Credit Hours: 3 hrs

Option II

- DTC 600 - Research I Credit Hours: 2 hrs
- DTC 650 - Research II Credit Hours: 1 hr
- DTC 695 - Research III Credit Hours: 3 hrs

Cognate Courses (courses taken outside the department): 2 hours

Required Cognate Course: 3 hours

- MATH 592 - Special Topics Credit Hours: 3 hrs

Deficiencies: 16 hours

See footnote below

- DTC 330 Nutrition Therapy I (3 hrs)
- DTC 350 Food Systems Management I (3 hrs)
- DTC 370 Nutrition Therapy II (3 hrs)
- DTC 430 Nutrition Therapy III (3 hrs)
- DTC 450 Food Systems Management II (2 hr)
- DTC 470 Nutrition Therapy IV (2 hr)

Program Total: 40 hours

Note:
Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs

Master's in Health Administration

Goal: To develop highly qualified professionals with solid knowledge and skills on issues related to the analysis, planning, design and management of health care institutions and organizations.

Objectives- Upon completion of this program students will be able to:

- Articulate the institutional characteristics of the organization, financing and delivery of health care services in the U.S.
- Critically analyze theories and methodologies of health services management as applied to public health issues and organizations, urban health care, poverty and indigence, and public health policy formation.
- Articulate the theories and methodologies of health services management as applied to market-oriented, private health care organizations and health care delivery systems.
- Critically assess and engaged in active problem solving and decision making within the every changing health care environment.

Goal: To make relevant contributions to the advancement of health services administration knowledge to enhance students' learning experience throughout the program.

Objectives- Upon completion of this program students will be able to:

- Demonstrate the ability to design and execute applied research projects that contribute to improved operation or organization performance.
- Complete an integrative analysis project resulting in scholarly publications for dissemination in scientific journals and other relevant sources.
- Have the opportunity to become actively involved health administration faculty research projects that may lead to the completion an integrative analysis project, journal articles and presentations at scholarly meetings.

Goal: To have our students actively serve the local, state and national community be contributing to health care related forums and discussions on health issues, especially those that relate to social policy and populations at risk.

Objectives- Upon completion of this program, students will be able to:

- Actively participate in national, state and local professional health administration/health care organizations involved in discussions of health related issues.
- Critically assess and provide health care decision-makers in specific health care organizations with scientific information about indigent populations and other populations at risk for decision and policy-making processes.
- Actively participate in community-oriented projects and activities that relate to health and policy issues.

Required Core Courses: 23 hours
- HLAD 510 - Medical Care Organization Credit Hours: 3 hrs
- HLAD 511 - Health Law Credit Hours: 3 hrs
- HLAD 520 - Healthcare Management Theory Credit Hours: 3 hrs
- HLAD 524 - Healthcare Manager Strategies Credit Hours: 3 hrs
- HLAD 610 - Leadership in Health Care Administration Credit Hours: 3 hrs
- PLSC 660 - Public Health Care Policy Credit Hours: 2 hrs

One course from the following:
- MGMT 509 - Strategic Human Resource Management Credit Hours: 3 hrs
- PLSC 515 - Public Personnel Administration Credit Hours: 3 hrs

One course from the following:
- HLAD 521 - Healthcare Finance Credit Hours: 3 hrs
- PLSC 540 - Public Budget Administration Credit Hours: 3 hrs

Research Courses: 5 hours

Select either Sequence I or Sequence II

Sequence I:
- HLAD 600 - Health Care Research Methods Credit Hours: 3 hrs
- PLSC 677 - Analytical Methods for Public Administration Credit Hours: 2 hrs

Sequence II:
- PLSC 677 - Analytical Methods for Public Administration Credit Hours: 2 hrs
- PLSC 678 - Analytical Techniques for Public Administration Credit Hours: 3 hrs

Content Specific Electives: 3-6 hours

One to two courses from the following:
- HLAD 512 - Reimbursement for Health Care Services Credit Hours: 3 hrs
- HLAD 525 - Quality Improvement in Health Care Credit Hours: 3 hrs
- HLAD 526 - Effective Long-Term Care Administration Credit Hours: 3 hrs
- PLSC 635 - Public Policy Analysis Techniques and Applications Credit Hours: 2 hrs

Culminating Project Courses: 2-5 hours

- HLAD 690 - Integrative Analysis Project I Credit Hours: 2 hrs
- HLAD 691 - Integrative Analysis Project II Credit Hours: 3 hrs
- HLAD 692 - Integrative Analysis Project III Credit Hours: 1 hr

Internship (Required for Pre-service students): 0-2 hours

Undergraduate Courses for Graduate Credit: School of Health Sciences

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- CLSC 401 - Laboratory Management/Education Credit Hours: 3 hrs
- OCTH 412 - Models of Practice Credit Hours: 3 hrs
- OCTH 419 - Programming I Credit Hours: 6 hrs
- OCTH 495 - Neurological Foundations of Human Occupation Credit Hours: 3 hrs
School of Nursing Programs

School of Nursing

Address: 311 Marshall
Phone: 734.487.2310
E-mail: chhs_nursing@emich.edu
Web site: www.emich.edu/nursing

Graduate Program
The School of Nursing graduate program includes a master of science in nursing and two post-baccalaureate certificates.

Post-Baccalaureate Graduate Certificates:
These programs of study are 12 credit hours of course work for each certificate:

Teaching in Health Care Systems (12 hours)
Quality Improvement in Health Care Systems (12 hours)

The certificate options are intended for students who have a baccalaureate degree in nursing, allied health or related disciplines from an accredited institution of higher education and have an interest in specialized study. Students seeking a certificate do not have to enroll in the graduate degree program.

Courses in the certificate programs may, with approval, be used as cognates in other graduate programs in the College of Health and Human Services.

Admission Requirements
Applicants must:
1. Have a baccalaureate from an accredited institution with a minimum GPA of 2.5 or 2.75 in the last 30 hours of the undergraduate program; and
2. Meet the Graduate School admission requirements.

Upon completing of the 12 credit hours for a post-baccalaureate certificate, students must apply for the certificate from the Office of Graduate Studies and Research. If students are incorporating the certificate into their master’s degree work, they can apply for both the certificate and the master’s diploma at the time of graduation.

School of Nursing Programs and Courses

Graduate Certificate

Graduate Certificate in Quality Improvement in Health Care (QIHC)

Adviser: Colleen Croxall, PhD.
359 Marshall
734.487.2072
collen.croxall@emich.edu
Core Courses: 9 hours

- HLAD 525 - Quality Improvement in Health Care Credit Hours: 3 hrs
- NURS 605 - Health Status Trends and Health Care Delivery Systems Credit Hours: 3 hrs
- NURS 686 - Practicum in QI in Health Care Systems Credit Hours: 3 hrs

Elective Courses: 3 hours

Choose one option from the following:

Option I
- MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs

Option II
- QUAL 552 - Quality Planning Credit Hours: 2 hrs
- QUAL 597 - Independent Study Credit Hours: 1 hr

Option III
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs
- QUAL 597 - Independent Study Credit Hours: 1 hr

Certificate Total: 12 hours

Graduate Certificate in Teaching in Health Care Systems (HCS)

This program prepares students as educators in health care systems. The focus is on education of client/family groups, staff development, continuing education and teaching in health care and nursing education. The program focuses on the educator role and the theory and practice of teaching and learning. Course work examines theories, strategies and research related to the teaching/learning process in health care systems, curriculum patterns for various learners, legal/ethical considerations in teaching and the trends in both education and health care that affect educational planning and evaluation. In the practicum, the student is given an opportunity to synthesize previous learning and function in an educator role under the mentorship of select expert preceptors.

Certificate Requirements

The certificate requires 12 hours of course work to be distributed as follows:

- NURS 605 - Health Status Trends and Health Care Delivery Systems Credit Hours: 3 hrs
- NURS 620 - Teaching in Health Care Systems: Instructional Strategies and Skills Credit Hours: 3 hrs
- NURS 622 - Teaching in Health Care Systems: Curriculum/Program Development and Evaluation Credit Hours: 3 hrs
- NURS 624 - Practicum in Teaching in Health Care Systems Credit Hours: 3 hrs

Certificate Total: 12 hours

Master's

Master of Science in Nursing (NUR)

Adviser: Barbara Scheffer, EdD.
311 Marshall
The MSN program focuses on the preparation of nurses to meet the needs of the community for health care providers/nurses with advanced practice knowledge and skills. Graduates are prepared for clinical practice in adult health nursing and for roles as clinical managers and educators in health care settings such as hospitals, community agencies, clinics, home health care agencies and community colleges.

Admission Requirements
Applicants must:
1. Meet the Graduate School admission requirements;
2. Have a baccalaureate degree in nursing from a nationally-accredited program or RN with other bachelor’s degree;
3. Have an undergraduate GPA of 3.0 or above. Applicants may seek conditional admission with a GPA of 2.5;
4. Submit a sample of writing (five pages suggested). Sample could be a published article, term paper or new column position;
5. Be currently licensed to practice as a professional nurse in Michigan or eligible to obtain a license;
6. Submit three references that document professional competence in nursing;
7. Include a one- to three-page narrative statement of personal goals for graduate study;
8. Have completed an approved basic statistics course that includes descriptive and inferential statistics; and
9. Have completed a basic health assessment course.

Program Requirements
The program consists of 40 to 43 credit hours, depending on the election of a thesis or a field study as the major research paper, including:
Twelve credit hours of core courses
Nine credit hours of the clinical major in adult health
Nine to ten credit hours related to a concentration from four options
Seven to nine credit hours related to scholarly inquiry
Three to four credit hours of elective courses

Nursing core courses consist of four three-hour courses in advanced pathophysiology, advanced health assessment, nursing theory for practice and research, and in health care trends and delivery systems. The clinical major consists of three three-hour courses in adult health nursing, each with a clinical practice component including a preceptored practicum that requires 135 clinical contact hours.

Students may select one of the four concentrations. “Teaching in health care systems” focuses on the knowledge, skills and abilities needed for working as education coordinators and/or faculty at a community college. “Quality improvement in health care systems” focuses on the knowledge, skills and abilities needed by nurses working in quality improvement, risk management, or other quality of care leadership positions. “Management in Health Care Systems” prepares nurses for roles in management, administration, case management and clinical nurse leadership. The “gerontology” concentration focuses on the knowledge, skills and abilities needed by nurses working in long-term care and other settings providing care to older adults.

A 275-hour clinical practicum option is available for nurses who want to be qualified to sit for the American Nurse Credentialing Center (ANCC) certification examination as a Clinical Nurse Specialist (CNS).

The seven to nine hours of scholarly inquiry consist of one three-hour course in research design and methods and one two-hour seminar on proposal development. Students have the option of a two-hour field study project or four hours of thesis work. Students select appropriate faculty members for the field study project or thesis direction, based on faculty expertise and the particular problems selected for study.

Students must complete a minimum of three to four hours of electives in nursing (for example, if the teaching role function is chosen, management role function courses may be elected and vice versa) or in other departments (physiology, psychology, sociology, gerontology, education or business management) depending on career direction.
The M.S. program in nursing requires the completion of 40 to 43 hours of course work to be distributed among required core courses, clinical major in adult health courses, function role courses, scholarly inquiry courses and cognate courses, as follows:

Core courses: 12 hours
- NURS 500 - Advanced Pathophysiology Credit Hours: 3 hrs
- NURS 502 - Advanced Health Assessment Credit Hours: 3 hrs
- NURS 506 - Nursing Theory for Practice and Research Credit Hours: 3 hrs
- NURS 605 - Health Status Trends and Health Care Delivery Systems Credit Hours: 3 hrs

Clinical Major in Adult Health Courses: 9 hours
- NURS 650 - Advanced Adult Health Nursing I Credit Hours: 3 hrs
- NURS 660 - Advanced Adult Health Nursing II Credit Hours: 3 hrs
- NURS 665 - Practicum in Adult Health Nursing Credit Hours: 3 hrs

Function role courses: 9-10 hours
Select from one of the following options:

Option I: Teaching Role in Health Care Systems
- NURS 620 - Teaching in Health Care Systems: Instructional Strategies and Skills Credit Hours: 3 hrs
- NURS 622 - Teaching in Health Care Systems: Curriculum/Program Development and Evaluation Credit Hours: 3 hrs
- NURS 624 - Practicum in Teaching in Health Care Systems Credit Hours: 3 hrs

Option II: Quality Improvement in Health Care
- HLAD 525 - Quality Improvement in Health Care Credit Hours: 3 hrs
- NURS 686 - Practicum in QI in Health Care Systems Credit Hours: 3 hrs

One course from the following:
- MGMT 638 - Building Continuous Improvement Teams Credit Hours: 3 hrs
- QUAL 552 - Quality Planning Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs

Option III: Management Role
- NURS 607 - Evolving Roles of Nurses in Health Care Delivery Systems Credit Hours: 3 hrs
- NURS 609 - Trends in Nursing Management Credit Hours: 3 hrs
- NURS 675 - Practicum in Systems Management Credit Hours: 3 hrs

Option IV: Gerontology
- BIO 570 - Biological Aspects of Aging Credit Hours: 2 hrs
- GERT 512 - Applied Psychosocial Aspects of Aging Credit Hours: 3 hrs
- NURS 699 - Independent Study Credit Hours: 3 hrs
- SWRK 553 - Ethnicity and Gender Issues Among the Aged Credit Hours: 2 hrs

Scholarly inquiry: 7-9 hours
Select from either Option I or Option II:

Option I
- NURS 688 - Field Study Credit Hours: 2 hrs

Option II
• NURS 693 - Thesis Credit Hours: 4 hrs
  Cognate Courses: 3-4 hours

*Three to four hours selected in consultation with a graduate adviser.*

  Program Total: 40-44 hours
School of Social Work Programs

School of Social Work

Address: 317 Marshall
Phone: 734.487.6892
E-mail: msw.program@emich.edu
Web site: http://www.emich.edu/sw

School of Social Work Programs and Courses

Graduate Certificate

Graduate Certificate in Community Building (CBLD)

Dr. Marti Bombyk, professor of social work
Address: 333 Marshall Building
Phone: 734.487.4173
E-mail: Marcia.Bombyk@emich.edu

This unique certificate is designed to develop the competencies of community leaders, professionals and staff of nonprofit organizations in leadership, resource development and program evaluation; in understanding the community as a complex system; in understanding their organizations’ potential for civic action; and in understanding how to improve the capacity of their community organizations to meet their missions and strengthen the community.

An external focus — to develop competencies for understanding the community as a social system and improving the social bonds and leadership skills among members of the community.

Required Courses: 12-13 hours

- SOCL 678 - Methods in Social Program Evaluation Credit Hours: 3 hrs
- SWRK 602 - Community Building Credit Hours: 2 hrs
- SWRK 662 - Grant Writing and Resource Development Credit Hours: 3 hrs
- SWRK 694 - Community Action Seminar Credit Hours: 2 hrs

One course from the following:

- LAW 603 - Legal Environment of Nonprofit Organizations Credit Hours: 3 hrs
- SWRK 526 - People of Color: The Non-deficit Perspective Credit Hours: 2 hrs

Certificate Total: 12-13 hours

Undergraduate Courses for Graduate Credit: School of Social Work

These upper-division undergraduate courses may also be taken for graduate credit and applied on the department’s certificate or degree programs. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.
If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- GERT 417 - Work and Retirement Credit Hours: 2 hrs
- GERT 488 - Gerontology Practicum/Seminar Credit Hours: 2 hrs
- GERT 489 - Gerontology Practicum/Seminar Credit Hours: 3 hrs
- SWRK 413 - Women and Aging Credit Hours: 3 hrs
- SWRK 420 - Working with Ageing People Credit Hours: 3 hrs
- SWRK 431 - Substance Abuse Credit Hours: 3 hrs
- SWRK 435 - Group Work with Children and Families Credit Hours: 3 hrs
- SWRK 460 - The Law and Social Work with the Family Credit Hours: 3 hrs
- SWRK 463 - Social Work Practice with Legal Offenders Credit Hours: 3 hrs

Undergraduate Courses for Graduate Credit: Marketing

The following course may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in the following undergraduate course for graduate credit, you must submit a request form to the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- MKTG 474 - Promotional Strategy Credit Hours: 3 hrs

Master's

Master of Social Work (M.S.W.)

The master of social work (M.S.W.) prepares graduates for advanced social work practice with poor families, neglected and abused children, persons with mental illness and/or chemical dependency, and the aged. The program equips graduates for working at both practice and leadership levels with individuals, families, groups and communities.

The program accommodates human service providers who can not attend a graduate program fulltime by offering course work in the evenings and on Saturdays, opportunities for part-time study and worksite field placements.

For the convenience of our students, some classes are offered in Detroit at the Northwest Activity Center in addition to those offered on campus. The Detroit site offers electives, Family and Children concentration courses, and a cycle of the 4-year full program courses.

Detroit Activities Northwest Center
18100 Meyers Rd.
Detroit, MI

The M.S.W. program is fully accredited by the Council on Social Work Education.

Admission Requirements
To be considered for admission to the M.S.W. program, you must have earned a bachelor’s degree from an accredited institution prior to enrollment:

1. Have a 2.75 GPA (this requirement is higher than the minimum required by the Graduate School);
2. Demonstrate commitment to our mission; and
3. Work and/or volunteer experience in social work or related fields are preferred.

If English is not your native language, submit documentation of English proficiency by:
• achieving a score of at least 550 on the Test of English as a Foreign Language (TOEFL) or 213 on the computer version and a 5 on the essay or
• achieving a score of at least 77 on the Michigan English Language Assessment Battery (MELAB), plus 83 on the written essay.

Note:
Official scores must be sent by the testing agency directly to the University.

Course Requirements
The length of time required to complete the M.S.W. depends upon undergraduate preparation. If you have a bachelor of social work degree (B.S.W.) from an undergraduate program accredited by the Council of Social Work Education (CSWE), you will be considered for advanced standing admission, which requires 35 credits for completion of the M.S.W. degree. If you are admitted on an advanced standing basis, your course work will begin in the fall semester immediately following admission. If your application is not approved for advanced standing admission, it will be reviewed for full program admission.

Students admitted to the full program begin classes in the fall semester and must complete 63 credit hours for the M.S.W. degree. All students admitted to the advanced standing program also begin in the fall semester. Students are admitted as a cohort, with a structured plan of study.

Full Program
For those with a nonsocial work bachelor’s degree, the program can be completed in two full-time (or four part-time) years with 63 hours of foundation and advanced-level courses. Students typically complete the M.S.W. on a part-time basis, but may petition to attend full-time.

Length of the Program
The Council of Social Work Education (CSWE) mandates that all M.S.W. requirements must be completed within four years of the date of entrance into the program. Exceptions to this requirement may be requested by students who need an extension due to extraordinary and/or unavoidable extenuating circumstances. Only petitions from students who have a consistent outstanding academic performance history with no “incompletes,” withdrawals,” “stop-outs,” or “fail” grades will be considered for this extension. Under no circumstances will students be allowed more than six years to complete their M.S.W. program.

Field Placement
All M.S.W. students must complete field placements that are authorized and arranged with affiliated public and nonprofit social service agencies through the field placement office. Foundation Field Placement (SWRK588, SWRK589A and SWRK589B) requires 400 hours of supervised field work. These are generalist placements. Advanced Field Placement (SWRK688, SWRK689 and SWRK690) requires 500 hours of supervised field work in their chosen concentration. M.S.W. students admitted to the full program must complete both placements. Students admitted to the advanced standing program complete only the advanced level placements. In accordance with our national accreditation standards, no credit can be given for past or present work experience.

Foundation Level Courses: 31 hours
• SWRK 502 - Social Work Profession and Services Credit Hours: 3 hrs
• SWRK 506 - Human Behavior and the Social Environment I: Individuals and Families Credit Hours: 2 hrs
• SWRK 507 - Human Behavior and the Social Environment II: Groups, Organizations and Communities Credit Hours: 2 hrs
• SWRK 510 - Generalist Practice I Credit Hours: 3 hrs
• SWRK 520 - Generalist Social Work Practice Credit Hours: 3 hrs
• SWRK 521 - Policy Analysis and Change Credit Hours: 3 hrs
• SWRK 526 - People of Color: The Non-deficit Perspective Credit Hours: 2 hrs
• SWRK 528 - Practice with Women Credit Hours: 2 hrs
• SWRK 530 - Social Work Research Methodology Credit Hours: 3 hrs
• SWRK 588 - Field Professional Experience I Credit Hours: 4 hrs
• SWRK 589 - Field Professional Experience II Credit Hours: 4 hrs

Advanced level courses: 24 hours
• SWRK 610 - Empowerment: Social Justice and Social Change Credit Hours: 2 hrs
• SWRK 630 - Action Research Credit Hours: 3 hrs
• SWRK 688 - Field Experience III Credit Hours: 4 hrs
• SWRK 689 - Field Experience IV Credit Hours: 4 hrs
• SWRK 690 - Field Experience V Credit Hours: 2 hrs
Select one from the following three concentrations:

I. Family and Children's Services (SWFS)

• SWRK 540 - Policies and Issues in Services to Families Credit Hours: 3 hrs
• SWRK 644 - Family-Centered Practice (Previously SWRK542) Credit Hours: 3 hrs
• SWRK 643 - Families in the Social Environment Credit Hours: 3 hrs

II. Mental Health and Chemical Dependency (SWMH)

• SWRK 650 - Policy Issues in the Health Care Setting Credit Hours: 3 hrs
• SWRK 652 - Dynamics and Practice: Mental Illness Services Credit Hours: 3 hrs
• SWRK 653 - Dynamics and Practice: Chemical Dependency Services Credit Hours: 3 hrs

III. Services to the Aging (SWAG)

• GERT 512 - Applied Psychosocial Aspects of Aging Credit Hours: 3 hrs
• SWRK 550 - Working with Aging People Credit Hours: 3 hrs
• SWRK 552 - Policy Issues and Older People Credit Hours: 3 hrs

Elective Courses: 8 hours

Eight hours selected in consultation with a graduate adviser.
Program Total: 63 hours

Advanced Standing

The length of time required to complete the M.S.W. depends upon undergraduate preparation. Those students with a B.S.W. from a program accredited by the Council on Social Work Education can complete the M.S.W. program in approximately one year of full-time work or two years of part-time work on an advanced-standing basis (35 hours) if they meet other specific GPA requirements. Students complete the M.S.W. on a part-time basis, but may petition to attend full time, if they are not employed full time.

Advanced level courses: 24 hours

• SWRK 610 - Empowerment: Social Justice and Social Change Credit Hours: 2 hrs
• SWRK 630 - Action Research Credit Hours: 3 hrs
• SWRK 688 - Field Experience III Credit Hours: 4 hrs
• SWRK 689 - Field Experience IV Credit Hours: 4 hrs
• SWRK 690 - Field Experience V Credit Hours: 2 hrs

Select one from the following two concentrations:

I. Family and Children's Services

• SWRK 540 - Policies and Issues in Services to Families Credit Hours: 3 hrs
• SWRK 644 - Family-Centered Practice (Previously SWRK542) Credit Hours: 3 hrs
• SWRK 643 - Families in the Social Environment Credit Hours: 3 hrs

II. Mental Illness and Chemical Dependency

• SWRK 650 - Policy Issues in the Health Care Setting Credit Hours: 3 hrs
• SWRK 652 - Dynamics and Practice: Mental Illness Services Credit Hours: 3 hrs
• SWRK 653 - Dynamics and Practice: Chemical Dependency Services Credit Hours: 3 hrs

Elective Courses: 11 hours

Eleven hours selected in consultation with a graduate adviser.
Program Total: 35 hours
The EMU School of Social Work offers a sequence of three elective courses that have been approved by the state of Michigan required to become a school social worker. Consultation should be made with a social work graduate adviser or the M.S.W. office about this opportunity.

Undergraduate Courses for Graduate Credit: School of Social Work

These upper-division undergraduate courses may also be taken for graduate credit and applied on the department’s certificate or degree programs. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- GERT 417 - Work and Retirement Credit Hours: 2 hrs
- GERT 488 - Gerontology Practicum/Seminar Credit Hours: 2 hrs
- GERT 489 - Gerontology Practicum/Seminar Credit Hours: 3 hrs
- SWRK 413 - Women and Aging Credit Hours: 3 hrs
- SWRK 420 - Working with Ageing People Credit Hours: 3 hrs
- SWRK 431 - Substance Abuse Credit Hours: 3 hrs
- SWRK 435 - Group Work with Children and Families Credit Hours: 3 hrs
- SWRK 460 - The Law and Social Work with the Family Credit Hours: 3 hrs
- SWRK 463 - Social Work Practice with Legal Offenders Credit Hours: 3 hrs
College of Technology

Dean
Morell D. Boone
109 Sill Hall
Phone: 734.487.0354

Interim Associate Dean
Polly Buchanan
109 Sill Hall
Phone: 734.487.0354

Schools and Departments
- Technology Doctoral Program
- Engineering Technology
- Technology Studies
- Military Science and Leadership

Mission Statement

The Mission of the College of Technology is to cultivate the intellectual and personal growth of individuals through collaborative teaching, research and outreach programs between students and faculty. We emphasize innovative relationships between theory and practice in order to graduate technologically skilled, life-long learners who can contribute effectively to their profession and society.

The College of Technology offers a doctor of philosophy in technology, 10 master's degree programs with multiple concentrations and options, and four graduate certificates. Our students draw from a wide spectrum of curricula that feature both specialization and flexibility. Due to the ever-increasing numbers of nontraditional students pursuing graduate degrees in our programs, off-campus education and corporate sites, as well as personal instruction and distance-learning technologies, are prevalent in the College of Technology.

Graduate students in the School of Engineering Technology may pursue graduate certificates, or the Master of Science in Construction Management, Computer Aided Engineering, Engineering Management, Interior Design, Polymer Technology or Quality. Graduates of the Construction Management program are prepared for managing commercial and industrial projects. Emphasis in Engineering Management is directed toward those working or planning to work in manufacturing, while Computer Aided Engineering is oriented toward designers or engineering designers. Graduates in the Interior Design program investigate the interactions of humans and the environment through the integration of theory, knowledge and technical skills. Graduate certification is available as an advanced graduate certificate in quality or in quality technology. The Master of Science in Polymer Technology attracts chemists wishing to study and conduct research in coatings or to work in the manufacture of coatings. The Coatings Research Institute and the National Science Foundation Industry/University Cooperative Research Center in Coatings provide industry-sponsored research activities for graduate courses.

In the School of Technology Studies, the Master of Science in Career, Technical and Workforce Education is designed for teachers in educational institutions, business and industrial settings, government agencies and other organizations. The Master of Science degrees in Apparel, Textiles and Merchandising, and Hotel and Restaurant Management are designed to provide a broad philosophy of the fields, with in-depth concentration in the subject-matter content areas. The Master of Science in Technology Studies is an interdisciplinary degree that focuses on the technical and sociocultural aspects of technology past, present and future. It is a flexible degree for working adults with a core set of courses and an opportunity to select from several areas of content concentrations. A graduate certificate in Information Security is also available that provides professionals with skills necessary to participate in a team-based information security or protection program.

While not a graduate degree program, the Department of Military Science and Leadership does, however, offer eligible graduate students a curriculum that permits entry into the active Army, Army National Guard or Army Reserves as
commissioned officers. The Department of Military Science and Leadership prepares leaders of character who serve the common defense; are analytical, responsible and accountable; have a sense of community; act with physical and moral courage; and set priorities.

Inherent in the interdisciplinary philosophy of the College is the use of existing courses and personnel throughout the University. Specific programs have been designed as collaborative efforts with other colleges including Arts and Sciences and Business.

The College of Technology emphasizes relevant, real-life, hands-on learning activities, a solid interdisciplinary foundation, close relationships with business and industry, teamwork and individual professional competence. Students are encouraged to be tomorrow’s leaders by refining the knowledge and skills necessary to understand, adapt to, and influence change.

Graduate Degrees and Certificate Programs

The college offers the following graduate degrees and certificate programs in the various disciplines of technology. Admission and degree requirements for each of the programs can be found in the departmental sections of this catalog.

**College of Technology**
DOCTOR OF PHILOSOPHY in Technology

**School of Engineering Technology**
MASTER OF SCIENCE in Construction Management
MASTER OF SCIENCE in CAE
MASTER OF SCIENCE in Engineering Management
MASTER OF SCIENCE in Interior Design
MASTER OF SCIENCE in Polymers and Coatings Technology
MASTER OF SCIENCE in Quality Management
GRADUATE CERTIFICATE in Quality
ADVANCED GRADUATE CERTIFICATE in Quality

**School of Technology Studies**
MASTER OF SCIENCE in Apparel, Textiles and Merchandising
MASTER OF SCIENCE in Career, Technical and Workforce Education
MASTER OF SCIENCE in Hotel and Restaurant Management
MASTER OF SCIENCE in Technology Studies
GRADUATE CERTIFICATE in Hotel and Restaurant Management
GRADUATE CERTIFICATE in Information Security

**Centers and Institutes**

The College of Technology has four centers and institutes that interface with business, industry and governmental agencies to provide applied research and continuing education. These centers and institutes are:

**The Center for Product Research and Development**
The Center for Product Research and Development (CPRD) is dedicated to helping manufacturing and construction businesses grow. The CPRD assists innovators to develop concepts into products. The professional services, prototyping, manufacturing facilities and entrepreneurial ideas can add to success in the highly competitive marketplace.

The mission of CPRD is to provide a vital link between University activities and manufacturing and construction industries through applied research and education. Through collaboration with the Michigan Small Business Development Center, the CPRD can assist companies and inventors in the development of a product, as well as assistance in establishing a business and bringing a product to market.
The Center for Regional and National Security

The mission of the Center for Regional and National Security (CeRNS) is to support citizenship security through excellence and innovation in teaching and research. The center was founded in 2003 with three service components, Information Assurance, Law Enforcement/School Safety and Homeland Security. While traditionally CeRNS has served the law enforcement and fire communities, it has created new initiatives directed to business and industry.

**Information Assurance** combines the very successful graduate program in information security, computer forensics and cyber crime investigation. These concentrations combine a cohesive unit where individuals can study and research the problems of our country in areas of information warfare, cyber security, digital analysis and the emerging science of computer forensics.

**Law Enforcement and School Safety** unites the very successful School of Police Staff and Command, with the School of First-Line Supervision, that addresses issues of leadership and communications for the first line supervisor. The School Safety Component builds upon successes in intervention strategies for school violence and the Team 8 Consortium where eight communities formed a coalition to address the gang violence, substance abuse and juvenile crime. Programs have been delivered across the state to more than 1,500 law enforcement executive officers, and to school personnel across the United States.

**Homeland Security** integrates the School of Fire Staff and Command with programs in incident command, first response to terrorist bombing, GIS, weapons of mass destruction, emergency management and hazardous materials. Joining this platform is the applied health care concentration in biological terrorism.

The Center for Regional and National Security is dedicated to providing solutions to some of the tough problems facing our nation in the information security, law enforcement, fire management and our regional and national response to homeland security.

The Coatings Research Institute

The Coatings Research Institute's (CRI) two-fold mission is to be a leading academic organization and develop relevant scientific knowledge for understanding and expanding the science and technology of paints, coatings, inks, adhesives and related nano-based materials. The results of this mission will be to enlarge the pool of scientists and technologists proficient in coatings and allied industry personnel. Our research activities, our support of undergraduate, graduate and postdoctoral candidate students, and our collaborations with government, industry and other educational institutions are consistent with the mission of the College of Technology and the mission of the University.

CRI is dedicated to providing solutions to some of the tough problems facing the coatings industry such as reducing VOCs in paint and coatings. The institute’s goals include the following:

- Synthesize new types of polymers and emulsions of potential value to coatings research,
- Improve and advance polymer and coatings characterization, analysis and test methods,
- Expand the knowledge base of coatings and technology through research on chemical and physical phenomena involved in paints and coatings,
- Provide an increased pool of well-trained coatings professionals to the coatings industry and provide continuing education opportunities to coatings industry personnel through relevant polymer and coatings technology short courses.

The Textile Research and Training Institute

The Textiles Research and Training Institute (TRTI) mission is to be a leading research and academic organization that provides relevant and creative research in the area of “applied textiles” that match across multidisciplines and industries. The TRTI provides a variety of educational training programs for industries that use textiles for various applications.

TRTI computer labs are housed in Roosevelt Hall on the main campus of Eastern Michigan University in Ypsilanti. All software is state-of-the-art and currently being utilized in the active furniture and apparel industries. Software includes: 2-D pattern design software, pattern grading, marking and nesting systems for optimal fabric utilization, CNC industrial cutter, CutWorks® software, product data management software for costing and manufacturing specialty sheets, merchandising and CAD package.

The dyeing and weaving Lab is located in Sherzer Hall on the main campus of Eastern Michigan University. The lab includes: Looms, dyeing and finishing, physical testing laboratory, tensile testing of yarns and fabrics, abrasion test, wrinkle recovery, fabric flammability, color fastness to crocking, and near infrared analysis.

Some of TRTI's recent projects include the following:
• Anti-bacterial/protective fabrics, “Smart Fabric” involving sensors within the fabric
• Environmentally friendly, polymer textiles “Green Textiles”
• Protective garments for security purposes i.e., bullet-proof vests, contract digitizing
• 2-D digitizing via the Gerber AcuMark® system for overwork or pattern development
• Industrial cutting services, high speed, single-ply cutting on a DCS2500 Cutter® with CutWorks® software

Pattern development, prototyping services, training on Gerber platform software are also offered.
Military Science and Leadership Programs

Military Science and Leadership (MSL)

Department Head: David B. Beougher  
Address: 18 Roosevelt Hall  
Phone: 734.487.1020  

Although military science and leadership does not offer a graduate degree program, the Department of Military Science and Leadership provides eligible graduate students with training that permits entry into the active Army, Army National Guard or Army Reserve as commissioned officers.

An applied approach to leadership is used in military science and leadership with students by placing them in leadership positions and helping them learn through application. The intent is to create the necessary skills to lead and motivate soldiers and the ability to operate in demanding environments.

Graduate students can also earn a two-year graduate scholarship. The scholarship provides up to $17,000 per year for tuition and mandatory fees, the student is provided a book allowance of $900 per year and a tax free stipend up to $5,000 per year. Students incur no obligation to the Army by applying for this scholarship. Leadership development courses offered by military science and leadership are taken on campus while attending graduate school. Upon receiving a graduate degree and completing the required courses in military science and leadership, the graduate is commissioned a second lieutenant. Contact the department of military science and leadership for eligibility requirements.

The Department of Military Science and Leadership is responsible for the conduct and support of the campus Veterans Service Office. Tasked with ensuring EMU student veterans are academically and financially prepared, the Veterans Service Office is manned and serviced by full and part time work-study students and VA personnel.

Military Science and Leadership Programs and Courses
School of Engineering Technology Programs

School of Engineering Technology

Behrooz Lahidji, director
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Web site: http://www.emich.edu/set/

The School of Engineering Technology (SET) offers master of science (M.S.) degrees in the following areas: CAE, construction management, engineering management, interior design, quality and polymers and coatings.

The CAE program is oriented to designers and engineering analysts. The construction management program is for individuals with the aspiration of managing commercial and industrial projects. The engineering management program is intended for those desiring to manage engineering projects or programs. The students in the interior design program develop creative and critical problem solving skills, in order to conceive and formulate interior environments that meet human needs and fulfill human aspirations. Graduates from the polymers and coatings technology program will find employment in research and development laboratories of companies. The quality program has options for those employed in the industrial or service sectors. Graduate certificates and advanced graduate certificates are also available in quality.

To meet the needs of the busy professional, selected classes and programs are available in the evening, on campus, at various off-campus sites and over the Internet. Students may enroll in these offerings through Continuing Education and need not be admitted to a degree program in order to do so. Those wishing to apply such courses toward a degree must obtain degree admission within a year. Contact the appropriate graduate admissions adviser for further information.

Admission Requirements
Applicants must:
1. Meet degree admission requirements of the Graduate School;
2. Obtain a baccalaureate from an accredited institution;
3. Have an undergraduate GPA of at least 2.5;
4. Meet program prerequisite skill requirements; and
5. In the case of international students, meet Graduate School test score requirements on the TOEFL, MELAB, or IELTS. See the Admissions web site for minimum scores.

Conditional Admissions
Conditional admissions may be granted to otherwise qualified students who lack prerequisite courses or are currently in the last semester of their undergraduate degree program. Conditional admission may also be granted to students who earned an undergraduate GPA less than 2.5 or who have graduated from a non-accredited institution. Such students may seek degree admission after completing nine to 12 hours of graduate-level work specified by the department, with a 3.0 GPA.

Students with a bachelor’s degree may enroll in graduate courses through continuing education prior to degree admission. The appropriate graduate coordinator can provide a list of courses offered through continuing education.

Degree Requirements
1. At least 30 hours of graduate credit applicable to the program;
2. At least 16 hours with a 3.0 GPA (B) in School of Engineering Technology;
3. A 3.0 GPA (B), overall;
4. Selection of concentration in construction, CAE, engineering management or quality; and
The recommendation of the program adviser and the Office of Graduate Studies and Research.

School of Engineering Technology Programs and Courses

Advanced Graduate

Graduate/Advanced Graduate Certificate in Quality Management (QTC)

The department offers graduate certificates in quality for those who desire to obtain advanced skills in the quality field without obtaining a master’s degree. The advanced graduate certificate is awarded to those possessing a master’s degree at the beginning of the advanced graduate certificate program.

Admission Requirements

Applicants must:
1. Meet admission requirements of the Graduate School;
2. Possess a baccalaureate (master’s degree or advanced certificate);
3. Possess a minimum undergraduate GPA of 2.5;
4. Meet program prerequisite skill requirements; and
5. In the case of international students, meet the Graduate School test score requirements on the TOEFL, MELAB, or IELTS. See the Admissions web site for minimum scores.

Certificate Requirements

This certificate requires 18 hours of course work as follows:
Required Core Courses: 10 hours
- QUAL 546 - Total Quality Management Credit Hours: 2 hrs
- QUAL 548 - Tools for Continuous Improvement Credit Hours: 2 hrs
- QUAL 551 - Design of Experiments Credit Hours: 2 hrs
- QUAL 552 - Quality Planning Credit Hours: 2 hrs
- QUAL 559 - Cost of Quality Credit Hours: 2 hrs

Required Quality Specialization: 8 hours
- EM 558 - Lean Production Credit Hours: 3 hrs
- QUAL 549 - Problem Solving for Quality Improvement Credit Hours: 2 hrs
- QUAL 550 - Advanced Statistical Process Control Credit Hours: 2 hrs
- QUAL 553 - Geometric and Surface Texture Tolerancing Credit Hours: 2 hrs
- QUAL 554 - Reliability, Maintainability and Product Safety Credit Hours: 2 hrs
- QUAL 555 - Quality Auditing Credit Hours: 2 hrs
- QUAL 556 - Human Aspects of Continuous Improvement Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs
- QUAL 558 - Lean Production Credit Hours: 3 hrs
- QUAL 591 - Special Topics Credit Hours: 2 hrs
- QUAL 651 - Advanced Design of Experiments Credit Hours: 2 hrs
- QUAL 652 - Experimental Data Analysis Credit Hours: 2 hrs

Program Total: 18 hours

Note:
Footnote:
Course selection subject to approval by your program adviser.

Master's

Master of Science in CAE (CAE)

Course Requirements

The M.S. program in CAE requires the completion of 30-34 hours of course work to be distributed among required core courses and University elective courses.

Option I: Thesis Track: 31 hours

Core courses: 21 hours

- CAE 503 - Advanced CNC and Robotics Credit Hours: 2 hrs
- CAE 535 - Computer-Aided Engineering Credit Hours: 2 hrs
- CAE 537 - Advanced Mechanics of Materials Credit Hours: 2 hrs
- CAE 565 - Mechanical System Design Credit Hours: 2 hrs
- CAE 585 - Advanced Finite Element Analysis Credit Hours: 2 hrs
- CAE 650 - Computer-Aided Manufacturing Credit Hours: 2 hrs
- CAE 675 - CAE Capstone Credit Hours: 2 hrs
- EM 636 - Analysis of Manufacturing Processes Credit Hours: 3 hrs
- QUAL 553 - Geometric and Surface Texture Tolerancing Credit Hours: 2 hrs
- QUAL 647 - Research Methods Credit Hours: 2 hrs

Restricted Elective Courses: 4 hours

Two courses from the following selected in consultation with the graduate adviser:

- CAE 527 - Engineering Software Development Credit Hours: 2 hrs
- CAE 545 - Engineering Simulation Credit Hours: 2 hrs
- CAE 567 - Plastics, Materials and Processes Credit Hours: 2 hrs
- CAE 575 - Advanced Engineering Dynamics Credit Hours: 2 hrs
- CAE 625 - Plastics Mold Design and Manufacturing Credit Hours: 2 hrs
- EM 649 - Manufacturing Process Planning Credit Hours: 3 hrs
- QUAL 556 - Human Aspects of Continuous Improvement Credit Hours: 2 hrs

Thesis: 6 hours

Six hours from the following:

- CAE 690 - Development Project/Thesis Credit Hours: 1 hr
- CAE 691 - Development Project/Thesis Credit Hours: 2 hrs
- CAE 692 - Development Project/Thesis Credit Hours: 3 hrs

Program Total: 31 hours

Option II: Non-Thesis Track: 36 hours

Core courses: 26 hours

- CAE 503 - Advanced CNC and Robotics Credit Hours: 2 hrs
- CAE 535 - Computer-Aided Engineering Credit Hours: 2 hrs
- CAE 537 - Advanced Mechanics of Materials Credit Hours: 2 hrs
- CAE 565 - Mechanical System Design Credit Hours: 2 hrs
• CAE 585 - Advanced Finite Element Analysis Credit Hours: 2 hrs
• CAE 650 - Computer-Aided Manufacturing Credit Hours: 2 hrs
• CAE 675 - CAE Capstone Credit Hours: 2 hrs
• EM 636 - Analysis of Manufacturing Processes Credit Hours: 3 hrs
• EM 649 - Manufacturing Process Planning Credit Hours: 3 hrs
• QUAL 553 - Geometric and Surface Texture Tolerancing Credit Hours: 2 hrs
• QUAL 556 - Human Aspects of Continuous Improvement Credit Hours: 2 hrs
• QUAL 647 - Research Methods Credit Hours: 2 hrs

Restricted Elective Courses: 10 hours

• CAE 527 - Engineering Software Development Credit Hours: 2 hrs
• CAE 545 - Engineering Simulation Credit Hours: 2 hrs
• CAE 567 - Plastics, Materials and Processes Credit Hours: 2 hrs
• CAE 575 - Advanced Engineering Dynamics Credit Hours: 2 hrs
• CAE 625 - Plastics Mold Design and Manufacturing Credit Hours: 2 hrs

Program Total: 36 hours

Master of Science in Construction Management (CM)

Adviser: Jim Stein, PhD.
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jstein@emich.edu

Course Requirements

The M.S. program in construction management requires the completion of 30 hours of course work to be distributed among required core courses and University elective courses.

Core courses: 14 hours

• CNST 501 - Project Estimating Credit Hours: 2 hrs
• CNST 502 - Project Scheduling Credit Hours: 2 hrs
• CNST 504 - Project Management Credit Hours: 2 hrs
• CNST 616 - Analysis of Commercial Structures Credit Hours: 3 hrs
• CNST 624 - Project Productivity and Cost Control Credit Hours: 3 hrs
• CNST 626 - Construction Processes Credit Hours: 2 hrs

Elective Courses: 4-8 hours

Four to eight hours from the following:

• CNST 503 - Construction Delays and Claims Credit Hours: 2 hrs
• CNST 590 - Special Topics Credit Hours: 1 hrs
• CNST 591 - Special Topics Credit Hours: 2 hrs
• CNST 592 - Special Topics Credit Hours: 3 hrs
• CNST 597 - Independent Study Credit Hours: 1 hr
• CNST 598 - Independent Study Credit Hours: 2 hrs
• CNST 599 - Independent Study Credit Hours: 3 hrs
• CNST 645 - Occupational Safety and Health Credit Hours: 2 hrs
• CNST 648 - Principles of Construction Technology Credit Hours: 2 hrs
• CNST 679 - Special Topics Credit Hours: 1 hr
• CNST 680 - Special Topics Credit Hours: 2 hrs
• CNST 681 - Special Topics Credit Hours: 3 hrs
- CNST 682 - Workshop Credit Hours: 1 hr
- CNST 683 - Workshop Credit Hours: 2 hrs
- CNST 684 - Workshop Credit Hours: 3 hrs
- CNST 685 - Workshop Credit Hours: 4 hrs
- CNST 689 - Industrial Internship Credit Hours: 2 hrs
- CNST 690 - Development Project/Thesis Credit Hours: 1 hr
- CNST 691 - Development Project/Thesis Credit Hours: 2 hrs
- CNST 692 - Development Project/Thesis Credit Hours: 3 hrs
- CNST 693 - Seminar Credit Hours: 1 hr
- CNST 694 - Seminar Credit Hours: 2 hrs
- CNST 695 - Seminar Credit Hours: 3 hrs
- CNST 697 - Independent Study Credit Hours: 1 hr
- CNST 698 - Independent Study Credit Hours: 2 hrs
- CNST 699 - Independent Study Credit Hours: 3 hrs

Cognate Courses: 8-12 hours

500- and 600-level nonconstruction management graduate courses, with adviser approval.

Program Total: 30 hours

Prerequisite Skills (dependent on student's admission status)

- CNST 201 Construction Systems (3 hrs)
- CNST 229 Analysis of Commercial Prints (3 hrs)
- CNST 302 Contract Documents, Regulations and Specifications (3 hrs)
- CNST 304 Construction Estimating and Bidding (3 hrs)
- CNST 361 Planning and Scheduling (3 hrs)
- CNST 403 Production Control (2 hrs)
- CNST 406 Construction Law (2 hrs)
- CNST 450 Fundamentals of Construction Project Management (3 hrs)

Master of Science in Engineering Management (EGMT)

The M.S. in Engineering Management program is appropriate for a wide range of industrial and/or technically-focused individuals who have previously pursued a four-year degree in technology, business, engineering or science. It meets the needs of technical professionals who are looking for both an advanced degree and appropriate preparation for their natural progression into management-level positions. It also meets the needs of professionals who are on a technical, rather than managerial career track, as it will help them to be more effective in managing the integration of their technically-focused jobs with others in team-based projects. Our program particularly fits the needs of busy professionals working in business, industry, and the military who may be located anywhere in the world, by being available completely on-line, as well as on the EMU campus.

The EM program focuses on management of: technology and intellectual property; research and development; engineering and technical projects; design and manufacturing; people, resources and organizations; quality; and lean enterprise systems. Knowledge in these areas helps the technical specialist to do their current job better and provides solid preparation and an advanced degree for promotion to management levels.

In addition to earning an advanced degree, many of our EM students attain professional certification in one or more specialty areas of Engineering Management. The program offers several tracks and focused courses that help students (with appropriate experience and credentials) attain several internationally-recognized professional certifications. These certifications include: (a) SME's Certified Engineering Manager (CEM), Certified Enterprise Integrator (CEI), Certified Manufacturing Technologist (CMfgT), and Certified Manufacturing Engineer (CMfgE); (b) PMI's Certified Associate in Project Management (CAPM) and Project Management Professional (PMP); and (c) SME's Lean Certifications. The program also offers a track for attaining EMU's Graduate Quality Certificate.
The specialty tracks of the program facilitate preparation for passing the examinations for the professional certifications noted above, and include:

1. Research and Development
2. Design and Manufacturing
3. Project/Program Management
4. Lean Enterprise Systems
5. EMU Graduate Quality Certificate

The Research and Development track is a 36 credit hour program and requires the completion of a research-based formal development project of thesis. The Design and Manufacturing, Project/Program Management, Lean Enterprise Systems, and Quality tracks are coursework-only, and are 39 credit hour programs.

## Admission Requirements

### Full Admission
Applicants must:
1. Meet the degree admission requirements of the Graduate School.
2. Have an undergraduate GPA of at least 2.5
3. Have a technical- or industrial-related undergraduate degree, i.e., science, engineering, technology, or business.
4. International students must meet the University and program TOEFL requirements before being accepted into the program. See the admissions website at www.emich.edu/admissions for specific minimum TOEFL score requirements.

Demand for the program is very high. Admission is competitive, with top applicants selected upon periodic review of the pool of applicants submitted to EMU.

### Pre-Admission
Students with a bachelor's degree may enroll in a limited number of graduate courses through Continuing Education prior to degree admission.

### Conditional Admission
Conditional admission status may be granted in special cases, such as to students who are currently in the last year of their undergraduate program. Conditional admission may also be granted to students who have graduated from a nonaccredited institution, or who may have earned an undergraduate GPA of less than 2.5. Such students may seek degree admission after completing nine hours of graduate level work, as specified by the department, with a 3.0 GPA.

**Core EM Program Requirements:** 21 hours

- EM 505 - Managing Engineering and Technology Credit Hours: 3 hrs
- EM 509 - Engineering Project Management Credit Hours: 3 hrs
- EM 520 - Engineering Value and Economic Analysis Credit Hours: 3 hrs
- EM 540 - Engineering Resource Management Credit Hours: 3 hrs
- EM 570 - Patents and Engineering Law Credit Hours: 3 hrs
- EM 580 - Engineering and Enterprise Integration Credit Hours: 3 hrs
- EM 695 - Seminar Credit Hours: 3 hrs

Select from one of the following Tracks:

**Track I: Research and Development:** 15 hours

**Choose one of the following Track Options:**

**Track I: Option I: Thesis:** 15 hours

- EM 547 - Management of Research, Development and Technology Credit Hours: 3 hrs
- EM 620 - Integrated Product and Process Design Credit Hours: 3 hrs
- EM 691 - Thesis Credit Hours: 1 hr
- EM 692 - Thesis Credit Hours: 1 hr
QUAL 647 - Research Methods Credit Hours: 2 hrs

One course from the following:

- QUAL 551 - Design of Experiments Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs
- QUAL 651 - Advanced Design of Experiments Credit Hours: 2 hrs

Track I: Option II: Development Project: 15 hours

- EM 547 - Management of Research, Development and Technology Credit Hours: 3 hrs
- EM 620 - Integrated Product and Process Design Credit Hours: 3 hrs
- EM 690 - Development Project Credit Hours: 1 hr
- EM 691 - Development Project Credit Hours: 2 hrs

Two courses from the following:

- QUAL 551 - Design of Experiments Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs
- QUAL 651 - Advanced Design of Experiments Credit Hours: 2 hrs

Track II: Design and Manufacturing Track: 18 hours

- EM 511 - Manufacturing Engineering Fundamentals Credit Hours: 3 hrs
- EM 558 - Lean Production Credit Hours: 3 hrs
- EM 620 - Integrated Product and Process Design Credit Hours: 3 hrs
- EM 636 - Analysis of Manufacturing Processes Credit Hours: 3 hrs
- EM 649 - Manufacturing Process Planning Credit Hours: 3 hrs
- EM 670 - Design for Manufacture and Assembly Credit Hours: 3 hrs

Track III: Project/Program Management: 18 hours

- EM 519 - Applied Engineering Project Management Credit Hours: 3 hrs
- EM 547 - Management of Research, Development and Technology Credit Hours: 3 hrs
- EM 556 - Lean Systems Team Management Credit Hours: 3 hrs
- EM 609 - Professional Project Management Credit Hours: 3 hrs
- EM 620 - Integrated Product and Process Design Credit Hours: 3 hrs
- EM 649 - Manufacturing Process Planning Credit Hours: 3 hrs

Track IV: Lean Enterprise Systems: 18 hours

- EM 556 - Lean Systems Team Management Credit Hours: 3 hrs
- EM 558 - Lean Production Credit Hours: 3 hrs
- EM 620 - Integrated Product and Process Design Credit Hours: 3 hrs
- EM 649 - Manufacturing Process Planning Credit Hours: 3 hrs
- EM 659 - Advanced Lean Systems Credit Hours: 3 hrs
- EM 669 - Professional Lean Certification Credit Hours: 3 hrs

Track V: EMU Quality Certificate: 18 hours

The EMU Graduate Quality Certificate track requires separate admission into the Graduate Quality Certificate program, in addition to admission into the Engineering Management masters degree program, and completion of 18 credit hours of Quality courses. For more information, see the description of specific program requirements in the Quality Certificate section of the Graduate Catalog.

Program Total: 36-39 hours

Master of Science in Interior Design (IDE)
Adviser: Shinnming Shuy, PhD.
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The interior design program provides opportunities for students to develop the conceptual understanding, analytical and research skills, and technological competence required for advanced study or design practice. Whereas the undergraduate degree is generalist in character, facilitating development of entry-level expertise in many design domains, the masters degree is specialist in character, enabling the graduate to develop expertise in a particular domain (e.g., healthcare, residential, restaurant, office, retail, etc.). Students work with their adviser to plan a program of study that uses their undergraduate course work and professional practice as a foundation for development of expertise in a design domain of interest to an individual student.

Admission Requirements
Applicants must:
1. Meet the Graduate School admission requirements;
2. Have a 2.75 or better undergraduate GPA;
3. Have earned a bachelor’s of art or bachelor’s of science in interior design degree or equivalent from an accredited institution;
4. Submit a one-page statement indicating personal goals for graduate study in interior design;
5. Receive the recommendation of the interior design graduate program director;
6. In case of international students, meet the Graduate School score requirements on the TOEFL, MELAB, or IELTS and achieve a score of 5 on the essay. See EMU Admissions web site for minimum scores.
7. With permission of the Interior Design Graduate Program, students who do not hold a B.A. or B.S. degree in interior design may earn the master’s of science in interior design as the first professional degree by successfully completing identified undergraduate deficiencies and graduate program requirements. An individualized program of study identifying required undergraduate and graduate courses is developed for each student prior to first semester enrollment, completion of these deficiencies is a requirement for graduation.

Course Requirements

The master’s degree in interior design requires the completion of 30 hours of graduate coursework divided into required courses, supporting interior design courses, cognate courses and thesis/project courses.

Required Course: 6 hours
- IDE 501 - Problems in Interior Design Credit Hours: 2 hrs
- IDE 508 - Universal and Barrier-Free Design Credit Hours: 2 hrs
- IDE 601 - Interior Design Research Methods Credit Hours: 2 hrs

Supporting Courses: 10-18 hours

Ten to 18 hours from the following:
- IDE 505 - Advanced Lighting Design (2 hrs)
- IDE 520 - Development of Educational Programs (2 hrs)
- IDE 502 - Facility Programming and Post-occupancy Evaluation Credit Hours: 2 hrs
- IDE 503 - Physical Environments for Aging Credit Hours: 2 hrs
- IDE 504 - Computer-Aided Design for Interiors Credit Hours: 2 hrs
- IDE 590 - Special Topics Credit Hours: 1 hr
- IDE 591 - Special Topics Credit Hours: 2 hrs
- IDE 592 - Special Topics Credit Hours: 3 hrs
- IDE 597 - Independent Study Credit Hours: 1 hr
- IDE 598 - Independent Study Credit Hours: 2 hrs
- IDE 599 - Independent Study Credit Hours: 3 hrs
- IDE 603 - History of Furniture and Contemporary Trends Credit Hours: 2 hrs
- IDE 604 - American Interiors Credit Hours: 2 hrs
• IDE 607 - Colloquium Credit Hours: 2 hrs
• IDE 679 - Special Topics Credit Hours: 2 hrs
• IDE 680 - Special Topics Credit Hours: 2 hrs
• IDE 681 - Special Topics Credit Hours: 2 hrs
• IDE 683 - Workshop Credit Hours: 2 hrs
• IDE 686 - Practicum Credit Hours: 1 hr
• IDE 687 - Practicum Credit Hours: 2 hrs
• IDE 688 - Practicum Credit Hours: 3 hrs
• IDE 689 - Practicum Credit Hours: 4 hrs
• IDE 697 - Independent Study Credit Hours: 1 hr
• IDE 698 - Independent Study Credit Hours: 2 hrs
• IDE 699 - Independent Study Credit Hours: 3 hrs

Cognate Courses (courses taken outside the department): 2-10 hours

Required Course

• EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs

Supporting Courses

Additional courses selected in consultation with the graduate adviser

Deficiencies

Courses determined in consultation with program adviser and completed prior to placement on planned program. Not counted in semester hours for master's degree but are instead additional hours required for academic course deficiencies.

Culminating Experience: 6 hours

• IDE 690 - Thesis/Project III Credit Hours: 1 hr
• IDE 691 - Thesis/Project I Credit Hours: 2 hrs
• IDE 692 - Thesis/Project II Credit Hours: 3 hrs

Program Total: 30 hours

Master of Science in Polymers and Coatings Technology (PLT)

Adviser: Jamil Baghdachi, PhD.
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This program prepares chemists for employment in the coatings industry or for further study at the doctoral level. Applicants must have an ACS-approved chemistry degree or equivalent. This interdisciplinary program utilizes courses from various departments. A committee composed of faculty from chemistry and the polymers and coatings program functions as the graduate committee for the program.

Admission Requirements

Applicants must:
1. Meet degree admission requirements of the Graduate School;
2. Possess a baccalaureate in chemistry (minimum 24 hours in chemistry);
3. Have had one year of physical chemistry;
4. Have had one year of organic chemistry; and
5. Have had an instrumentation class.

Note:
Exceptions can be made for students who pass approved undergraduate course(s) at Eastern Michigan University.
Course Requirements

The M.S. program in polymer technology requires the completion of 30 to 34 hours of course work to be distributed among required core courses, concentration courses and capstone experience courses.

Core courses: 12 hours

**Twelve hours from the following:**

- CHEM 562 - Statistical Mechanics and Chemical Kinetics Credit Hours: 2 hrs
- CHEM 572 - Spectrometric Organic Structure Determination Credit Hours: 4 hrs
- CHEM 610 - Information Retrieval in Chemistry Credit Hours: 1 hr
- CHEM 665 - Physical Chemistry of Polymers Credit Hours: 2 hrs
- CHEM 675 - Advanced Organic Polymer Chemistry Credit Hours: 3 hrs
- PC 543 - Advanced Polymer Synthesis for Coatings Technology Credit Hours: 2 hrs
- PC 544 - Waterborne Coatings Credit Hours: 2 hrs
- PC 574 - Crosslinking Technology for Coatings Credit Hours: 2 hrs
- PC 650 - Powder Coatings Credit Hours: 2 hrs
- PC 652 - Durability and Performance of Coatings Credit Hours: 3 hrs

Concentration courses: 12 hours

**Select from either option I or option II:**

Option I: Coatings Concentration

- PC 400 - Polymers and Coatings Technology I Credit Hours: 3 hrs
- PC 401 - Polymers and Coatings Technology I Laboratory Credit Hours: 3 hrs
- PC 402 - Polymers and Coatings Technology II Credit Hours: 3 hrs
- PC 503 - Advanced Polymers and Coatings Technology Laboratory Credit Hours: 3 hrs

Option II: Management Concentration

- MGMT 505 - Organizational Theory and Behavior and Business Communication Credit Hours: 3 hrs
- MGMT 509 - Strategic Human Resource Management Credit Hours: 3 hrs
- MGMT 604 - Strategic Communication and Ethical Decision-Making Credit Hours: 3 hrs
- TM 555 - Technology and Organization Credit Hours: 3 hrs

Capstone experience courses: 0-6 hours

**Select up to six hours from special topics or other graduate courses or from other courses with adviser approval.**

- PC 570 - Coating Evaluation and Testing Credit Hours: 2 hrs
- PC 591 - Special Topics Credit Hours: 2 hrs
- PC 592 - Special Topics Credit Hours: 3 hrs
- QUAL 551 - Design of Experiments Credit Hours: 2 hrs

Research or Independent Studies: 4-6 hours

**Select from either option I or option II:**

See footnote one below

Option I

- PC 697 - Independent Study Credit Hours: 1 hr
- PC 698 - Independent Study Credit Hours: 2 hrs
- PC 699 - Independent Study Credit Hours: 3 hrs

Option II

- PC 690 - Thesis Credit Hours: 1 hr
- PC 691 - Thesis Credit Hours: 2 hrs
- PC 692 - Thesis Credit Hours: 3 hrs

Program Total: 30-34 hours
Notes:

Footnote One:
A non-thesis option may be elected by students from industry on the recommendation of the graduate advisory committee.

Footnote Two:
Students who have taken the 400-level courses in their undergraduate studies may choose option B or select courses from core concentration or capstone experience.

Master of Science in Quality Management (QUAL)

Adviser: Walter Tucker, PhD.
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Walter.Tucker@emich.edu

Admission Requirements
Applicants must:
1. Meet admission requirements of the Graduate School;
2. Possess a baccalaureate (master’s degree or advanced certificate);
3. Possess a minimum undergraduate GPA of 2.5;
4. In the case of international students, meet the Graduate School test score requirements on the TOEFL, MELAB, or IELTS. See the Admissions web site for minimum scores.

Course Requirements
The M.S. program in quality management requires the completion of 30 hours of course work to be distributed among required core courses and adviser approved quality specialization courses.

Core Courses: 10 hours
- QUAL 546 - Total Quality Management Credit Hours: 2 hrs
- QUAL 548 - Tools for Continuous Improvement Credit Hours: 2 hrs
Appropriate for those students who have never taken basic statistics and/or statistical process control (SPC)
- QUAL 551 - Design of Experiments Credit Hours: 2 hrs
- QUAL 552 - Quality Planning Credit Hours: 2 hrs
- QUAL 559 - Cost of Quality Credit Hours: 2 hrs

Quality Specialization: 12-14 hours
- QUAL 550 - Advanced Statistical Process Control Credit Hours: 2 hrs
- QUAL 553 - Geometric and Surface Texture Tolerancing Credit Hours: 2 hrs
- QUAL 554 - Reliability, Maintainability and Product Safety Credit Hours: 2 hrs
- QUAL 555 - Quality Auditing Credit Hours: 2 hrs
- QUAL 556 - Human Aspects of Continuous Improvement Credit Hours: 2 hrs
- QUAL 557 - Measuring Customer Satisfaction Credit Hours: 2 hrs
- QUAL 651 - Advanced Design of Experiments Credit Hours: 2 hrs
- QUAL 652 - Experimental Data Analysis Credit Hours: 2 hrs
- QUAL 655 - Technical Six Sigma Credit Hours: 2 hrs
- QUAL 568 - Lean Practices Credit Hours: 2 hrs

Capstone: 6-8 hours
QUAL 690 and QUAL 692 are required for a project; QUAL 690, QUAL 691, QUAL 692 are required for a thesis.

- QUAL 647 - Research Methods Credit Hours: 2 hrs

Required for all students

- QUAL 690 - Development Project/Thesis Credit Hours: 1 hr
- QUAL 691 - Development Project/Thesis Credit Hours: 2 hrs
- QUAL 692 - Development Project/Thesis Credit Hours: 3 hrs

Program Total: 30 hours
School of Technology Studies Programs

School of Technology Studies

Director: John E. Boyles
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Web site: www.emich.edu/sts

The School of Technology Studies offers programs leading to the master of science degrees in apparel, textiles and merchandising; career, technical and workforce education; and hotel and restaurant management. Also, it offers programs leading to and the master of science in technology studies and a graduate certificate in information security.

School of Technology Studies Programs and Courses

Graduate Certificate

Graduate Certificate in Hotel and Restaurant Management (HRM)

Required Courses: 9 hours

- HRM 609 - Advanced Topics in Food-Service Management Credit Hours: 3 hrs
- HRM 610 - Advanced Topics in Hospitality Management Credit Hours: 3 hrs
- HRM 680 - Special Topics Credit Hours: 2 hrs

Supporting Courses: 9 hours

Select three 500/600 level HRM courses in consultation with an adviser.

Deficiencies

Courses determined in consultation with program adviser and completed prior to placement in planned program. Not counted in semester hours for master’s degree but are additional credits required for deficient academic courses.

Program Total: 18 hours

Undergraduate Courses for Graduate Credit: School of Technology Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- AVT 422 - Senior Seminar in Aviation Management Credit Hours: 3 hrs
- CMT 404 - Photo Communication Workshop Credit Hours: 3 hrs
 Graduate Certificate in Information Security/Assurance (ISEC)

Adviser: Skip Lawver, SpA.
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The information security graduate certificate provides professionals with instruction necessary to participate in a team-based information security or protection program in larger organizations and to initiate and manage programs in smaller organizations. The program is appropriate for professionals with special needs (as for example, those in legal fields, law enforcement, computer training and education, marketing or other fields concerned with information security-related issues and or products and services). The program can also, with appropriate preparatory experiences, serve a general educational role for individuals who want to become better decision-makers and more knowledgeable participants/discussants in legislative and ethical issues.

Objectives
1. Demonstrate and apply knowledge of federal, state and international law to information security cases and contemporary events. The primary areas of competence include, but are not limited to: computer crime, intellectual property, privacy and confidentiality, and cryptography.
2. Analyze and take informed positions on ethical issues that relate to information collection, processing, storage and transmission.
3. Evaluate and write policies, procedures and plans that provide the foundation for a sound information security program.
4. Assess risks to the security of information based on threats and vulnerabilities; establish security requirements for organizations to reduce risks.
5. Prepare a comprehensive information security program plan for organizations and prepare related documents necessary to implement and maintain a comprehensive program.
6. Pose a significant information security problem and prepare a proposal for its study using a generally accepted methodology for the study.
7. It is also the goal of the program to provide instruction that aids individuals who are preparing for the computer information system security professional (CISSP) examination.

Admission Requirements
Applicants Must:
1. Obtain a baccalaureate from an accredited institution;
2. Have an undergraduate GPA of 2.75 or higher;
3. Have a goal statement as part of the admission application that is consistent with program objectives;
4. Submit a minimum of two letters of recommendation focusing on evidence of experience relevant to information security; and
5. Submit a goal statement demonstrating how the graduate certificate program will help the student’s professional goals.

Note:
Qualifying students may apply 13 hours to the master of liberal studies or master of science program in interdisciplinary technology

Certificate Requirements

This certificate requires 17-18 hours of course work as follows:

- Restricted elective to be determined in consultation with the adviser (2-3 hrs)
- IA 522 - Physical Security Requirements for Information Systems Credit Hours: 2 hrs
- IA 532 - Audit Controls in Information Security Credit Hours: 2 hrs
- IA 542 - Information System Security for Managers Credit Hours: 3 hrs
- IA 543 - Systems Operating Environment for Information Security Systems Administrators Credit Hours: 2 hrs
- IA 544 - Administrative Information Security Procedures Credit Hours: 2 hrs
- IA 546 - Vulnerability, Risk and Analysis Credit Hours: 2 hrs
- IA 694 - Professional Seminar in Information Security/Assurance Credit Hours: 2 hrs

Certificate Total: 17-18 hours

Note:
In order to obtain the graduate certificate, an overall GPA of 3.0 is required.

Undergraduate Courses for Graduate Credit: School of Technology Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- AVT 422 - Senior Seminar in Aviation Management Credit Hours: 3 hrs
- CMT 404 - Photo Communication Workshop Credit Hours: 3 hrs
- CMT 409 - Emerging Technologies in Storage and Retrieval Credit Hours: 3 hrs
- CMT 425 - Communication Technology and Social Change Credit Hours: 3 hrs
- CMT 436 - Electronic Publishing Technology Credit Hours: 3 hrs
- CMT 477 - Special Topics Credit Hours: 1 hr
- CMT 478 - Special Topics Credit Hours: 2 hrs
- CMT 479 - Special Topics Credit Hours: 3 hrs
- HRM 450 - Meetings and Events Management Credit Hours: 3 hrs
- HSEM 412 - Organizational Behavior for Public Safety Managers Credit Hours: 3 hrs
- HSEM 434 - Incident Analysis Hazardous Materials Credit Hours: 3 hrs
- HSEM 435 - Incident Command Credit Hours: 3 hrs
- SSC 433 - Arson Investigation Credit Hours: 3 hrs
- STS 420 - Women and Technology Credit Hours: 3 hrs
- STS 495 - Technology, Values and the Future Credit Hours: 3 hrs
- TM 415 - Senior Seminar in Technology Management Credit Hours: 3 hrs

Master's
Master of Science in Apparel Textiles and Merchandising
(ATM)

Adviser: Subhar Ghosh, PhD.
202 Sill
734.487.2476
sghosh@emich.edu

Objectives
The objective of the program is to provide the conceptual understanding and analytical and research skills needed for advanced study or professional practice. Each concentration offers an opportunity for the student and the adviser to create a program that reflects individual career and study goals.

Required Department Courses: 8 hours

- HECR 500 Research Design and Methods (2 hrs)
- ATM 625 - The Fashion Field Credit Hours: 2 hrs
- ATM 634 - Consumer Problems in Clothing and Textiles Credit Hours: 2 hrs
- ATM 644 - Recent Developments in Textiles Credit Hours: 2 hrs

Supporting Courses: 6-14 hours

Six to fourteen hours from the following:

- HECR 520 Development of Educational Programs (2 hrs)
- ATM 603 Apparel and Textiles Market Analysis (2 hrs)
- ATM 614 Socio-Psychology of Clothing (2 hrs)
- ATM 681 Advanced Textiles (3 hrs)
- ATM 504 - History of Textiles Credit Hours: 2 hrs
- ATM 590 - Special Topics Credit Hours: 1 hr
- ATM 591 - Special Topics Credit Hours: 2 hrs
- ATM 592 - Special Topics Credit Hours: 3 hrs
- ATM 597 - Independent Study Credit Hours: 1 hr
- ATM 598 - Independent Study Credit Hours: 2 hrs
- ATM 599 - Independent Study Credit Hours: 3 hrs
- ATM 607 - Colloquium Credit Hours: 2 hrs
- ATM 635 - History of Costume Credit Hours: 2 hrs
- ATM 645 - Clothing Design and Construction Credit Hours: 2 hrs
- ATM 671 - Advanced Studies on Yarn and Fabric Construction Credit Hours: 3 hrs
- ATM 675 - Textile Analysis Credit Hours: 2 hrs
- ATM 679 - Special Topics Credit Hours: 1 hr
- ATM 680 - Special Topics Credit Hours: 2 hrs
- ATM 681 - Special Topics Credit Hours: 3 hrs
- ATM 683 - Workshop Credit Hours: 2 hrs
- ATM 686 - Practicum Credit Hours: 1 hr
- ATM 687 - Practicum Credit Hours: 2 hrs
- ATM 688 - Practicum Credit Hours: 3 hrs
- ATM 689 - Practicum Credit Hours: 4 hrs
- ATM 697 - Independent Study Credit Hours: 1 hr
- ATM 698 - Independent Study Credit Hours: 2 hrs
- ATM 699 - Independent Study Credit Hours: 3 hrs

Culminating Experience: 6 hours

Select from either option I or option II:
Option I

- ATM 690 - Thesis III Credit Hours: 1 hr
- ATM 691 - Thesis I Credit Hours: 2 hrs
- ATM 692 - Thesis II Credit Hours: 3 hrs

Option II

- ATM 600 - Research I Credit Hours: 2 hrs
- ATM 650 - Research III Credit Hours: 1 hr
- ATM 695 - Research II Credit Hours: 3 hrs

Cognate Courses (courses taken outside the department): 2-10 hours

Required Cognate Course

- EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs

Supporting Courses

Additional courses selected in consultation with the graduate adviser.

Deficiencies

Courses determined in consultation with program adviser and completed prior to placement on planned program. Not counted in semester hours for master’s degree but are additional hours required for deficient academic courses.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: School of Technology Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- AVT 422 - Senior Seminar in Aviation Management Credit Hours: 3 hrs
- CMT 404 - Photo Communication Workshop Credit Hours: 3 hrs
- CMT 409 - Emerging Technologies in Storage and Retrieval Credit Hours: 3 hrs
- CMT 425 - Communication Technology and Social Change Credit Hours: 3 hrs
- CMT 436 - Electronic Publishing Technology Credit Hours: 3 hrs
- CMT 477 - Special Topics Credit Hours: 1 hr
- CMT 478 - Special Topics Credit Hours: 2 hrs
- CMT 479 - Special Topics Credit Hours: 3 hrs
- HRM 450 - Meetings and Events Management Credit Hours: 3 hrs
- HSEM 412 - Organizational Behavior for Public Safety Managers Credit Hours: 3 hrs
- HSEM 434 - Incident Analysis Hazardous Materials Credit Hours: 3 hrs
- HSEM 435 - Incident Command Credit Hours: 3 hrs
- SSC 433 - Arson Investigation Credit Hours: 3 hrs
- STS 420 - Women and Technology Credit Hours: 3 hrs
- STS 495 - Technology, Values and the Future Credit Hours: 3 hrs
- TM 415 - Senior Seminar in Technology Management Credit Hours: 3 hrs

Master of Science in Hotel and Restaurant Management (HRM)
Adviser: Susan Gregory, EdD.
202B Sill
734.487.0845
susan.gregory@emich.edu

The graduate curriculum in this program is designed to provide a broad philosophy of the fields in the hospitality industry, with in-depth concentration in the areas of hotel and restaurant management.

Objectives
The objective of the program is to provide the conceptual understanding and analytical and research skills needed for advanced study or professional practice. Each concentration offers an opportunity for the student and the adviser to create a program that reflects individual career and study goals.

Required Courses: 8 hours

- TS 507 Research Methods in Technology Studies
- HRM 609 - Advanced Topics in Food-Service Management Credit Hours: 3 hrs
- HRM 610 - Advanced Topics in Hospitality Management Credit Hours: 3 hrs

Supporting Courses: 10-16 hours

Ten to 16 hours from the following:

- HRM 519 - Human Resource Management in Hospitality and Nutrition Service Credit Hours: 3 hrs
- HRM 521 - Quality Service Management Credit Hours: 3 hrs
- HRM 560 - Service Strategies for Hospitality Industry Credit Hours: 3 hrs
- HRM 587 - Cooperative Education in Hospitality Management Credit Hours: 3 hrs
- HRM 590 - Special Topics Credit Hours: 1 hr
- HRM 591 - Special Topics Credit Hours: 2 hrs
- HRM 592 - Special Topics Credit Hours: 3 hrs
- HRM 597 - Independent Study Credit Hours: 1 hr
- HRM 598 - Independent Study Credit Hours: 2 hrs
- HRM 599 - Independent Study Credit Hours: 3 hrs
- HRM 607 - Colloquium Credit Hours: 2 hrs
- HRM 626 - Productivity Management in Hospitality and Food-Service Facilities Credit Hours: 3 hrs
- HRM 630 - International Hospitality Management Credit Hours: 3 hrs
- HRM 640 - Contemporary Issues in Hospitality Strategy Credit Hours: 3 hrs
- HRM 655 - Financial Strategies for Hospitality Operations Credit Hours: 3 hrs
- HRM 679 - Special Topics Credit Hours: 1 hr
- HRM 680 - Special Topics Credit Hours: 2 hrs
- HRM 681 - Special Topics Credit Hours: 3 hrs
- HRM 683 - Workshop Credit Hours: 3 hrs
- HRM 686 - Practicum Credit Hours: 1 hr
- HRM 687 - Practicum Credit Hours: 2 hrs
- HRM 688 - Practicum Credit Hours: 3 hrs
- HRM 689 - Practicum Credit Hours: 4 hrs
- HRM 697 - Independent Study Credit Hours: 1 hr
- HRM 698 - Independent Study Credit Hours: 2 hrs
- HRM 699 - Independent Study Credit Hours: 3 hrs

Culminating Experience: 6 hours

Select from either option I, II or III:

Option I

- HRM 690 - Thesis III Credit Hours: 1 hr
- HRM 691 - Thesis I Credit Hours: 2 hrs
- HRM 692 - Thesis II Credit Hours: 3 hrs

Option II
• HRM 600 - Research I Credit Hours: 2 hrs
• HRM 650 - Research III Credit Hours: 1 hr
• HRM 695 - Research II Credit Hours: 3 hrs

Option III

• HRM 685 - Hospitality Operations Management Project Credit Hours: 3 hrs

Cognate Courses (courses taken outside the department): 2-8 hours

Required Cognate Course

• EDPS 621 - Statistical Applications in Educational Research Credit Hours: 2 hrs

Supporting Courses

Additional courses selected in consultation with the graduate adviser.

Deficiencies

Courses determined in consultation with program adviser and completed prior to placement on planned program. Not counted in semester hours for master’s degree but are additional hours required for deficient academic courses.

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: School of Technology Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level course work may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

• AVT 422 - Senior Seminar in Aviation Management Credit Hours: 3 hrs
• CMT 404 - Photo Communication Workshop Credit Hours: 3 hrs
• CMT 409 - Emerging Technologies in Storage and Retrieval Credit Hours: 3 hrs
• CMT 425 - Communication Technology and Social Change Credit Hours: 3 hrs
• CMT 436 - Electronic Publishing Technology Credit Hours: 3 hrs
• CMT 477 - Special Topics Credit Hours: 1 hr
• CMT 478 - Special Topics Credit Hours: 2 hrs
• CMT 479 - Special Topics Credit Hours: 3 hrs
• HRM 450 - Meetings and Events Management Credit Hours: 3 hrs
• HSEM 412 - Organizational Behavior for Public Safety Managers Credit Hours: 3 hrs
• HSEM 434 - Incident Analysis Hazardous Materials Credit Hours: 3 hrs
• HSEM 435 - Incident Command Credit Hours: 3 hrs
• SSC 433 - Arson Investigation Credit Hours: 3 hrs
• STS 420 - Women and Technology Credit Hours: 3 hrs
• STS 495 - Technology, Values and the Future Credit Hours: 3 hrs
• TM 415 - Senior Seminar in Technology Management Credit Hours: 3 hrs

Master of Science in Technology Studies (MS-TS)

Adviser: Alphonso Bellamy, PhD.
122 Sill Hall
734.487.1161
al.bellamy@emich.edu

This Masters of Science in Technology Studies (MS-TS) degree program prepares students for promotions and managerial, administrative or consulting positions with technology-based organizations addressing the social, political,
moral and economic affects of technology. The MS-TS offers the flexibility that enables students to design their programs of study to meet specific educational and employment objectives.

MS-TS students will acquire knowledge related to:

1. Central concepts and issues related to the study of technology and society;
2. Significant technical developments and their effects on individuals, societies, the environment and the workplace;
3. Technological systems and their effects on the quality of life;
4. The integration of information from various sources and disciplines to solve sociotechnical problems; and
5. Major tools and methodologies for assessing technology’s impact on society.

The MS-TS program in technology promotes flexibility, enabling students to design more than one-half of the program to suit specific educational employment objectives. Working students can pursue a degree, either full-time or part-time with all core courses offered in the evening or online.

Many concentrations offer business or industrial placement as an option for the capstone experience. An additional feature of the program is the opportunity for students have to meet with business and industry leaders through lectures, seminars and conferences.

Admission Requirements

Applicants must:

1. Have a bachelor’s degree from an accredited institution;
2. Have a minimum GPA of 2.75 (or 3.0 in their final 60 hours of undergraduate study);
3. Submit two letters of recommendation to be included with the application for graduate school submitted to EMU’s Office of Admissions; and
4. In the case of international students, meet the Graduate School minimum scores for the TOEFL, MELAB, or IELTS. See the Admissions web site for minimum scores.

Note:
In addition, a program planning interview with an adviser is recommended upon admission.

Conditional or Nondegree Admission Status

Conditional admission may be granted to students who meet the degree admission requirements of the Office of Graduate Studies and Research, but have undergraduate curricular deficiencies or do not meet other departmental admission requirements.

Nondegree admission (status I: academic deficiencies) may be granted to promising students who do not meet undergraduate GPA requirements. Students may not repeat courses to attain the required GPA.

Students who meet the probationary requirements of conditional or nondegree admission will be granted regular admission after completing 10 hours of course work (identified with the adviser) with a 3.3 average.

Program Requirements

A total of 30 hours required for the MS-TS:

1. 12 credit hours of the core curriculum
2. A minimum of 14-15 credit hours of complementary concentration
3. Four to six hours of capstone experience

Course Requirements

The MS-TS requires the completion of at least 30 hours of coursework to be distributed among required core courses, complementary concentration courses and capstone experience courses.

Core courses: 12 hours

- TS 505 - Introduction to Technology and Society
- TS 506 - Patterns of Change in Technology and Culture Credit Hours: 3 hrs
- TS 508 - Contemporary Trends in Technology and Society Credit Hours: 3 hrs
- TS 509 - Research Methods in Technology Studies Credit Hours: 3 hrs

Concentration courses: 15 hours
Select one concentration from the following:

**Technology Management: 15 hours**
- TM 510 - Principles of Managing Technological Enterprises Credit Hours: 3 hrs
- TM 555 - Technology and Organization Credit Hours: 3 hrs
- TM 560 - Technology and Labor Relations Credit Hours: 3 hrs
- TM 565 - Technology and Training Credit Hours: 3 hrs
- TM 615 - Planning and Implementing Technological Change Credit Hours: 3 hrs

**Information Assurance: 15 hours**
- IA 522 - Physical Security Requirements for Information Systems Credit Hours: 2 hrs
- IA 532 - Audit Controls in Information Security Credit Hours: 2 hrs
- IA 542 - Information System Security for Managers Credit Hours: 3 hrs
- IA 543 - Systems Operating Environment for Information Security Systems Administrators Credit Hours: 2 hrs
- IA 544 - Administrative Information Security Procedures Credit Hours: 2 hrs
- IA 546 - Vulnerability, Risk and Analysis Credit Hours: 2 hrs
- IA 694 - Professional Seminar in Information Security/Assurance Credit Hours: 2 hrs

**Interdisciplinary Studies: 15 hours**

Examples include:
- Technology and Culture
- Communications
- Computer Science
- Information Systems
- Management and Marketing
- Public Administration
- Women’s Studies

**Homeland Security and Emergency Management: 15 hours**
- SSC 525 - Management/Leadership for Homeland Security Credit Hours: 2 hrs
- SSC 529 - Foreign and Domestic Terrorism for First Responders Credit Hours: 3 hrs
- SSC 530 - Administrating the Public Safety Agency Credit Hours: 2 hrs
- SSC 535 - Planning and Decision Making for Homeland Security Credit Hours: 2 hrs
- SSC 540 - Human Resource Management in Public Safety Agencies Credit Hours: 2 hrs
- SSC 545 - Managing the critical Incident for Homeland Security Credit Hours: 2 hrs
- SSC 550 - Managing Technology in the Public Safety Environment Credit Hours: 2 hrs

**Career, Technical and Workforce Education: 15 hours**
- CTWE 611 - Curriculum Frameworks in Career, Technical and Workforce Education Credit Hours: 3 hrs
- CTWE 661 - Evaluation Standards and Strategies in Career, Technical and Workforce Education Credit Hours: 3 hrs

**Specialization Courses: 9 hours**

*Nine additional credit hours selected in consultation with a graduate adviser from the disciplines of business or technology education, or from other units within the college or from related fields outside the college.*

**Capstone Experience Courses: 4-6 hours**

*Select from either option I or option II*

**Option I: Capstone Project**
- TS 691 Proposal Development (1 hr)
- TS 699 - Capstone Project Credit Hours: 3 hrs
Option II: Thesis

- TS 691 Proposal Development (1 hr)
- TS 695 Thesis (5 hrs)

Program Total: 30 hours

Undergraduate Courses for Graduate Credit: School of Technology Studies

The following courses may be elected for graduate credit. A maximum of nine hours of approved 400-level coursework may be permitted in the earning of any graduate degree.

If you intend to enroll in any of the following undergraduate courses for graduate credit, you must submit a request form from the Graduate School to receive permission before enrolling in the course; otherwise, you will receive undergraduate credit.

- AVT 422 - Senior Seminar in Aviation Management Credit Hours: 3 hrs
- CMT 404 - Photo Communication Workshop Credit Hours: 3 hrs
- CMT 409 - Emerging Technologies in Storage and Retrieval Credit Hours: 3 hrs
- CMT 425 - Communication Technology and Social Change Credit Hours: 3 hrs
- CMT 436 - Electronic Publishing Technology Credit Hours: 3 hrs
- CMT 477 - Special Topics Credit Hours: 1 hr
- CMT 478 - Special Topics Credit Hours: 2 hrs
- CMT 479 - Special Topics Credit Hours: 3 hrs
- HRM 450 - Meetings and Events Management Credit Hours: 3 hrs
- HSEM 412 - Organizational Behavior for Public Safety Managers Credit Hours: 3 hrs
- HSEM 434 - Incident Analysis Hazardous Materials Credit Hours: 3 hrs
- HSEM 435 - Incident Command Credit Hours: 3 hrs
- SSC 433 - Arson Investigation Credit Hours: 3 hrs
- STS 420 - Women and Technology Credit Hours: 3 hrs
- STS 495 - Technology, Values and the Future Credit Hours: 3 hrs
- TM 415 - Senior Seminar in Technology Management Credit Hours: 3 hrs
African American Studies

**AAS 501 - Foundational Issues in African American Studies**

This course provides an advanced examination of theoretical and conceptual issues that form the epistemological foundation of African American studies. It investigates key studies, scholars and theories in the field. Readings and discussions pay close attention to the relationship between theory and empirical research and their applications to contemporary social issues. __Credit Hours: 3 hrs

**AAS 502 - Race and Crime and the African American Experience**

This course will provide a comparative analysis of the experience of African Americans and other groups with the criminal justice system in the United States. Students will critically examine historical patterns, theories of race and crime and the effects of race and class on social attitudes and criminal justice practices. __Credit Hours: 3 hrs

**AAS 503 - Public Policy and African Americans**

This course examines the implications of major and evolving national public policies and policy alternatives for economically vulnerable and/or historically disadvantaged segments of the population, particularly African Americans. Such policies include those related to social welfare, education, campus climate, employment, mass communication, housing, affirmative action and drug and crime control. __Credit Hours: 3 hrs

**AAS 504 - Politics in the African American Experience**

This course is designed to provide the student with an advanced and critical knowledge of black political behavior in the United States in its evolution from protest to contemporary, institutional politics. __Credit Hours: 3 hrs

**AAS 505 - The African Political Economy**

This course serves as an advanced and critical survey of Africa’s contemporary political economy. In examining post-colonial developments, the course focuses on regional and national strategies for social transformation. __Credit Hours: 3 hrs

**AAS 504 - Law, Race and Community**

This course examines the legal history of African Americans and the related search for a concept of community within the United States. The course ranges from European movement into the Western Hemisphere in the 1400s to the challenges of race and structural inequalities of the 21st century. __Credit Hours: 3 hrs

**AAS 506 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing, senior standing with permission

**AAS 507 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 541 - Law, Race and Community**

This course will provide a comparative analysis of the experience of African Americans and other groups with the criminal justice system in the United States. Students will critically examine historical patterns, theories of race and crime and the effects of race and class on social attitudes and criminal justice practices. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with PLSC543

**AAS 542 - Race and Crime and the African American Experience**

This course will provide a comparative analysis of the experience of African Americans and other groups with the criminal justice system in the United States. Students will critically examine historical patterns, theories of race and crime and the effects of race and class on social attitudes and criminal justice practices. __Credit Hours: 3 hrs

**AAS 543 - Civil Rights and the African American Experience**

This course will explore the impact of race as a dominant and dynamic force that has shaped the interpretation of the Constitution and subsequent Civil Rights Acts. Students will critically examine how black communities organized for change and how the Civil Rights movement contributed to American political reform. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with PLSC543

**AAS 544 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing, senior standing with permission

**AAS 545 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 2 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 546 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing, senior standing with permission

**AAS 590 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: graduate standing, senior standing with permission

**AAS 591 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: graduate standing, senior standing with permission

**AAS 592 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 593 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 594 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 595 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 596 - Special Topics**

Special topics important to the in-depth and advanced study of the African American experience. Students may develop a course of study that can lead to a certificate program or master’s degree in African American studies. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 597 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 598 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 2 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 599 - Independent Study**

Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit

**AAS 602 - Researching Black Communities**

Through the application of qualitative and ethnographic techniques, students will study groups, institutions and other social phenomena that affect African American communities and culture. Social research will be linked to intellectual and theoretical traditions in the field of African American studies. __Credit Hours: 3 hrs

**AAS 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the
University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**Accounting**

**ACC 240 - Principles of Financial Accounting**
Use and development of financial information about economic organizations, with special emphasis on the use of financial statements and their creation in the business decision-making and reporting process. __Credit Hours: 3 hrs

**ACC 241 - Principles of Managerial Accounting**
Use and development of accounting information in managerial settings to achieve managerial goals. Use of managerial accounting tools such as budgets and cost analysis in typical business environments. __Credit Hours: 3 hrs

**ACC 296 - The Accounting Cycle and Profession**
This course covers the accounting cycle process in manual and computerized environments. The course also explores various accounting occupations and other fundamental concepts, such as the time value of money. __Credit Hours: 3 hrs _Prerequisites: ACC240

**ACC 340 - Intermediate Accounting**
Examination of generally accepted accounting principles related to financial reporting of the assets, liabilities, equity and operating statement accounts of an organization. Concepts and theories that guide the recording, valuation and classification of transactions in an organization. Preparation and analysis of the balance sheet, income statement and statement of cash flows for an entity. __Credit Hours: 3 hrs _Prerequisites: ACC296, or department permission

**ACC 342 - Managerial Cost Accounting**
Accounting information for use in planning objectives and controlling operations. A framework for measuring managerial performance is developed through an analytic treatment of cost behavior under dynamic conditions by employing such devices as cost-volume-profit relationships, flexible budgeting and standards. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241 or ACC501

**ACC 344 - Principles of Taxation**
This course is an introductory level study of taxation of individuals, corporations and some other entities. It develops a basic knowledge of tax rules useful and necessary in business management. The course also provides a foundation for the study of tax planning, research and compliance. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241 or ACC501

**ACC 356 - Accounting Information Systems**
Concepts of a responsive information system, including principles of design, profitability and responsibility, accounting and control. Description of typical accounting systems and procedures within the business enterprise. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241 or ACC501, or department permission __

**ACC 442 - Advanced Cost Accounting**
Cost concepts on an advanced level such as standard costs-and-variance analysis; responsibility accounting, direct costing, overhead allocation, break-even; product pricing through return-on-investment methods; divisional income measurement; forecasting with statistical models; capital budgeting; and applications of mathematics to cost accounting problems. __Credit Hours: 3 hrs _Prerequisites: ACC342 __

**ACC 450 - Internal Auditing**
Introduction to the profession of internal auditing. Includes professional standards, techniques, scientific methods, reporting, operational auditing and internal audit management. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241 or ACC501

**ACC 456 - Accounting Information Systems Implementation and Projects**
A capstone course for the accounting information systems major designed to develop expertise in the implementation of an accounting information system. __Credit Hours: 3 hrs _Prerequisites: ACC356 and IS380 or department permission __

**ACC 475 - International Accounting**
Introduction to accounting in an international environment. Includes the study of environmental factors, performance evaluation, financial reporting and specific accounting and auditing problems. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241 or ACC501

**ACC 479 - Special Topics**
Specialized accounting topics in relation to changes in the practice of accounting and its regulation by government agencies. __Credit Hours: 3 hrs _Prerequisites: ACC340/356 and department permission

**ACC 491 - Accounting Honors Thesis**
A directed studies course for accounting honors students only. An in-depth research thesis or project under the direction of an accounting faculty member is required with an oral examination or form of presentation to the faculty and other interested parties upon completion of the thesis. __Credit Hours: 3 hrs _Prerequisites: Final semester in undergraduate accounting honors program

**ACC 496 - Financial Management and Controllership**
This course is a capstone experience for the accounting major who wants to manage the information needs of an organization from the perspective of the controller, chief financial officer, or financial manager. Topics include: accountability for performance; budgeting and costs; managing
cash and the treasury function; and enterprise and information systems. __Credit Hours: 3 hrs _Prerequisite/Corequisite: _ACC296, ACC340, ACC342, ACC356, ACC344/544 and senior standing _Notes: Open to accounting-BBA majors only.

**ACC 499 - Directed Studies**
Directed study of a problem or group of problems in accounting not otherwise treated in departmental courses. __Credit Hours: 3 hrs _Prerequisites: Department permission

**ACC 501 - Accounting Principles**
Emphasizes analysis of the required financial statements for financial reporting purposes, including discussions of alternative accounting principles generally acceptable in their preparation. Significant emphasis also placed on the impact that business transactions have on a company's financial position. Additional topics include profit-planning techniques, such as cost-volume-profit analysis and budgeting. __Credit Hours: 3 hrs

**ACC 510 - Enterprise Systems**
Provides the fundamentals of re-engineering and using and analyzing enterprise systems to produce efficient and effective management information and appropriate analysis and interpretation for strategic management decision-making, with emphasis on accounting applications. __Credit Hours: 3 hrs

**ACC 511 - Accounting for E-Commerce**
This course explores the e-commerce environment including valuing stock of e-commerce firms, understanding the role of accountants in assessing risk and providing assurance over the authentication of e-commerce transactions, as well as tax and privacy issues. __Credit Hours: 3 hrs _Prerequisites: ACC501

**ACC 540 - Corporate Financial Reporting**
An examination of the generally accepted accounting principles used in corporate financial reporting with particular emphasis on advanced topics such as equity, long-term assets and liabilities, revenue recognition, prior period adjustments and cash flows. Also included is the role of the SEC in financial reporting of publicly traded companies. __Credit Hours: 3 hrs _Prerequisites: ACC340

**ACC 541 - Advanced Financial Accounting**
Specialized topics in accounting with major emphasis on conceptual aspects and reporting of consolidated financial statements, international accounting challenges and foreign currency reporting issues. __Credit Hours: 3 hrs _Prerequisites: ACC340, ACC540 or equivalent and department permission

**ACC 544 - Federal Income Taxation**
This course is an introductory study of the tax rules governing individuals. It provides a basic knowledge of the tax formula, property transactions and business and personal deductions that facilitates optimum decision-making in both personal and business contexts. This course also provides a foundation for the study of tax planning, research and compliance. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241; or ACC501

**ACC 546 - Public and Nonprofit Sector Accounting**
Accounting issues in governmental and nonprofit entities, including financial reporting, managerial accounting, information systems, auditing and regulatory and taxation issues. Also included is the SEC’s role in financial reporting. __Credit Hours: 3 hrs _Prerequisites: ACC340 or equivalent or department permission

**ACC 548 - Information Systems Audit and Control**
This course covers the processing of audit in a computerized accounting information systems environment, and the evaluation of controls and risks in determining audit decisions. __Credit Hours: 3 hrs _Prerequisites: ACC356 or ACC605

**ACC 550 - Professional Internal Auditing**
This course examines the principles of internal auditing as an independent objective assurance and consulting activity designed to add value and improve an organization's operations. Topics include enterprise risk management; internal control frameworks, such as COSO and COBIT; governance; preliminary surveys; audit programs; audit ports; and operational audits. __Credit Hours: 3 hrs _Prerequisites: ACC240 and ACC241; or ACC501; or department permission _Notes: Not open for students with credit in ACC450 Internal Auditing

**ACC 560 - Fraud Examination**
This course initially provides a basis in internal audit principles, and then concentrates on the study of fraud examination. Specifics of the course focus on the theories of fraud, the “fraud tree,” fraud awareness, fraud schemes especially those related to financial frauds and fraud deterrence practices. ACC560 is appropriate for students who have already taken ACC540 or ACC541; or as a separate course for those who have not taken ACC450. __Credit Hours: 3 hrs _Prerequisites: ACC501 or department permission

**ACC 567 - Professional Auditing**
A study of auditing concepts, objectives and procedures, and of the literature as it relates to current audit problems. __Credit Hours: 3 hrs _Prerequisites: ACC340 and ACC356

**ACC 584 - Tax Research Methods, Practice and Problems**
Introduction of tax research methods including identification of tax issues, efficient use of tax researches and effective communication of the research process. __Credit Hours: 3 hrs _Prerequisites: ACC501; or 240 and 241

**ACC 585 - Business Tax Planning**
Conceptual coverage of the tax system, taxable and tax-reporting business entities, and principles of taxation for the purpose of
identifying the tax planning opportunities in business decisions. __Credit Hours: 3 hrs _Prerequisites: ACC501; or ACC240 and ACC241

ACC 586 - Cooperative Education in Accounting
Accounting employment at a business or public organization imparting a practical experience in accounting. Position may be part-time, volunteer, or less than a full semester in duration. Does not count toward M.S.A. or MBA requirements. Admittance by application only. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ACC 589 - Accounting Internship
Directed, full-time accounting work experience in a business or public organization. Does not count toward M.S.A. or MBA requirements. Admittance by application only. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ACC 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ACC 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ACC 597 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 1 hr _Prerequisites: department permission

ACC 598 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ACC 599 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 3 hrs _Prerequisites: department permission

ACC 605 - Strategic Information and Control Systems
Builds on the foundation laid in ACC501 to continue the study and use of accounting information for strategic management, planning, control and managerial decision-making. The objective is for students to recognize the value and limitations of management accounting systems and how accounting information can be used to improve operations. __Credit Hours: 3 hrs _Prerequisites: ACC501 (or ACC240 and ACC241) and admission to the MBA program.

ACC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

ACC 642 - Strategic Cost Management
The role of cost management in strategic quality management. Cost accounting systems for continuous improvement; conceptual design, accounting models, performance measurement and investment performance. Topics also include advanced managerial accounting issues, such as activity based costing, profit and investment centers, project planning and control. __Credit Hours: 3 hrs _Prerequisites: DS501 or an undergraduate statistics course; and ACC605

ACC 646 - Financial Management of Nonprofit Organizations
Financial management issues in public and nonprofit organizations, including accountability for performance, financial reporting, budgeting and costs, information systems, governance issues, decision-making techniques, relations with governmental and private funding sources. Not available to Accounting Majors __Credit Hours: 3 hrs

ACC 656 - Accounting, Information Technology and Research
A capstone course for the accounting information systems track designed to develop expertise in the implementation of an accounting information system. __Credit Hours: 3 hrs _Prerequisites: IS645 or IS380; and ACC336

ACC 672 - Investment and Tax Financial Planning
This course focuses on the study of tax policy and the economic environment as it relates to strategic tax planning for investments, compensation, business and personal taxation. Basic tax rules that impact compensation planning from the point of view of the employer and the employee are covered along with the tax rules that are relevant for investment planning. An
ACC 675 - International Accounting and Taxation
Introduction to accounting in an international environment. Includes the study of environmental factors, performance evaluation, financial reporting, international taxation and specific accounting and auditing problems. __Credit Hours: 3 hrs __Prerequisites: ACC501; or ACC240 and ACC241

ACC 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: ACC501

ACC 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

ACC 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

ACC 686 - Accounting Theory, Research and Policy
A capstone course emphasizing and developing an understanding of the many interrelated applications of accounting in organizations and in the broader setting of financial markets. __Credit Hours: 3 hrs __Prerequisites: ACC540 and department permission

ACC 697 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 1 hr __Prerequisites: department permission

ACC 698 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 2 hrs __Prerequisites: department permission

ACC 699 - Independent Study
Directed study or problems in accounting not otherwise treated in department courses. __Credit Hours: 3 hrs __Prerequisites: department permission

Applied Music

ACOL 552 - Applied Music
Keyboard instruction for students in the Master of Music in Performance—Collaborative Keyboard concentration. Students will study keyboard repertoire, chamber music, and instrumental and vocal accompaniments through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs __Prerequisites: audition

ACOL 554 - Applied Music
Keyboard instruction for students in the Master of Music in Performance—Collaborative Keyboard concentration. Students will study keyboard repertoire, chamber music, and instrumental and vocal accompaniments through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs __Prerequisites: audition

ACOL 652 - Applied Music
Keyboard instruction for students in the Master of Music in Performance—Collaborative Keyboard concentration. Students will study keyboard repertoire, chamber music, and instrumental and vocal accompaniments through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs __Prerequisites: audition

ACOL 662 - Applied Music
Keyboard instruction for students in the Master of Music in Performance—Collaborative Keyboard concentration. Students will study keyboard repertoire, chamber music, and instrumental and vocal accompaniments through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs __Prerequisites: audition

ACOL 664 - Applied Music
Keyboard instruction for students in the Master of Music in Performance—Collaborative Keyboard concentration. Students will study keyboard repertoire, chamber music, and instrumental and vocal accompaniments through regular instruction in individual and group lesson settings. Students enrolled in Applied Music
are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition

APED 552 - Applied Music

Piano instruction for students in the Master of Music in Piano Pedagogy degree. Students will study piano repertoire, technique, and pedagogy through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition _Repeatable: May be repeated for credit.

APED 554 - Applied Music

Piano instruction for students in the Master of Music in Piano Pedagogy degree. Students will study piano repertoire, technique, and pedagogy through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition _Repeatable: May be repeated for credit.

APED 652 - Applied Music

Piano instruction for students in the Master of Music in Piano Pedagogy degree. Students will study piano repertoire, technique, and pedagogy through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition _Repeatable: May be repeated for credit.

APED 654 - Applied Music

Piano instruction for students in the Master of Music in Piano Pedagogy degree. Students will study piano repertoire, technique, and pedagogy through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition _Repeatable: May be repeated for credit.

APED 662 - Applied Music

Piano instruction for students in the Master of Music in Piano Pedagogy degree. Students will study piano repertoire, technique, and pedagogy through regular instruction in individual and group lesson settings. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hrs _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 551 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. __Credit Hours: 1 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 552 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 553 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 554 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 555 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 556 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 557 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 558 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 559 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.

Axxx 560 - Independent Study

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr _Prerequisites: audition _Repeatable: May be repeated for credit.
studio class. __Credit Hours: 2 hr __Prerequisites: audition __Repeatable: May be repeated for credit.

**Axxx 663 - Independent Study**

Individualized instrumental or vocal instruction for music graduate students. __Credit Hours: 1 hr __Prerequisites: audition __Repeatable: May be repeated for credit.

**Axxx 664 - Independent Study**

Individualized instrumental or vocal instruction for music graduate students. Students enrolled in Applied Music are required to participate in a weekly one-hour studio class. __Credit Hours: 2 hr __Prerequisites: audition __Repeatable: May be repeated for credit.

**School of Health Sciences**

**AHPR 200 - Medical Terminology**

A detailed study of medical terminology, through which students will achieve a working medical vocabulary. Anatomical terms and terminology relating to diseases and disease processes will be presented. This course is designed for students entering a health-related education program, and is a prerequisite for admission to the occupational therapy program. Offered on a credit/no-credit basis. __Credit Hours: 1 hr

**Anthropology**

**ANTH 437 - Kinship and Social Structure**

The comparative study of kinship and social structure in various societies. __Credit Hours: 3 hrs __Prerequisites: ANTH135, ANTH210 and one additional ANTH course at the 300-level __Notes: This is an undergraduate course available for graduate credit.

**ANTH 439 - Seminar in Anthropological Theory**

An intensive examination of theoretical approaches to the study of cultural phenomena. Emphasis will be placed upon the critical reading of primary source materials seminal to the development of various theoretical stances within the discipline of anthropology. This course will be organized around written and oral presentations by students. __Credit Hours: 3 hrs __Prerequisites: four courses in anthropology including ANTH140, ANTH200, ANTH210 and senior standing __Notes: This is an undergraduate course available for graduate credit.

**ANTH 487 - Cooperative Education in Anthropology**

Practical experience in industrial, business or government settings that provides job skills. __Credit Hours: 3 hrs __Prerequisites: department permission __Notes: Offered on a credit/no-credit basis; This is an undergraduate course available for graduate credit.

**ANTH 502 - Racial and Cultural Minorities**

Racial and cultural minorities in the modern world, with particular reference to African Americans and to European and Asian immigrants in the United States; racial myths, doctrines and movements; conflict and accommodation of majority and minority peoples; proposed solutions of ethnic problems. Not open to students with credit in ANTH214/SOCL214. __Credit Hours: 3 hrs __Prerequisites: This course is cross'listed with SOCL502 __Cross-listed: This course is cross'listed with SOCL502

**ANTH 509 - Personality and Social Systems**

The cross-cultural study of personality and sociocultural systems. Attention is paid to modal personality types as these relate to group structure, socialization and social structure. Individual differences are not studied. Not open to students with credit in ANTH309/SOCL309. __Credit Hours: 2 hrs __Prerequisites: This course is cross'listed with SOCL509 __Cross-listed: This course is cross'listed with SOCL509

**ANTH 522 - Globalization: Race/Ethnicity, Class and Gender**

This course provides critical perspectives on the globalization process with race/ethnicity, class and gender as the central themes. Topics may include: theoretical issues pertaining to the study of globalization; production and reproduction in the global economy; paid and unpaid labor and its relationship to globalization; development experience in East Asia and Russia; alternatives to corporate globalization; the reclaiming of the "commons;" global environmental issues raised by the consideration of race/ethnicity, class and gender. __Credit Hours: 3 hrs __Prerequisites: This course is cross'listed with SOCL522 and WGST522 __Cross-listed: This course is cross'listed with SOCL522 and WGST522

**ANTH 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

**Art**

**ART 406 - Printmaking**

An advanced laboratory course for art majors taking their sequence in graphics. Projects could include lithography, etching and aquatint processes, plus individual assignments. __Credit Hours: 3 hrs __Prerequisites: ART405; art majors only __Notes: This is an undergraduate course available for graduate credit.

**ART 408 - Ceramics**

Summation of the undergraduate ceramics program; emphasis on individual style, production techniques, studio management and exhibition programs. __Credit Hours: 3 hrs __Prerequisites: ART407; art majors only __Notes: This is an undergraduate course available for graduate credit.

**ART 409 - Advanced Photographic Imagery**

The contextual development of personal vision is emphasized through discussion of
the student’s work in relationship to established photographers’ work. __Credit Hours: 3 hrs _Prerequisites: ART304 and ART323 _Notes: This is an undergraduate course available for graduate credit.

ART 410 - Metal Casting Techniques
An advanced sculpture course covering all aspects of the lost-wax casting process. Includes information on other metal casting processes and on construction and operation of an inexpensive sculpture foundry. __Credit Hours: 3 hrs _Prerequisites: ART310 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 412 - Sculpture
Advanced sculpture problems; development of individual style in three-dimensional form. __Credit Hours: 3 hrs _Prerequisites: ART411; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 413 - Painting
Further development of painting skills and aesthetic understanding of the two-dimensional surface complex. Emphasis on development of individual style. __Credit Hours: 3 hrs _Prerequisites: ART314; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 414 - Watercolor II
Further development of watercolor skills and aesthetic understanding of the two-dimensional surface complex. Emphasis on development of a personal style in art. __Credit Hours: 3 hrs _Prerequisites: ART316; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 419 - Life Drawing
The study of the human form as part of the development of a personal style in art. __Credit Hours: 3 hrs _Prerequisites: ART316; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 421 - History of Asian Art
A survey of Far Eastern art, with emphasis on the artistic and cultural traditions of South Asia, China and Japan. Works of art are examined for their cultural and historical significance. __Credit Hours: 3 hrs _Prerequisites: ART109 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 422 - Art of East Asia
A detailed examination of the visual arts of China, Japan and Korea from Neolithic times to the present, with emphasis on the cultural and artistic exchanges between these and surrounding cultures. __Credit Hours: 3 hrs _Prerequisites: ART109 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 423 - Watercolor III
Further development of individual style in watercolor. __Credit Hours: 3 hrs _Prerequisites: ART414; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 424 - Watercolor IV
Further development of individual style in watercolor. __Credit Hours: 3 hrs _Prerequisites: ART423; art majors only _Notes: This is an undergraduate course available for graduate credit.

ART 425 - Arts of Africa
Examines the visual arts of sub-Saharan Africa. Analyzes and investigates the content, materials, techniques and aesthetics of traditional African art within its cultural context. Includes the integration of function and ritual, as evidenced in the tribal objects and artifacts. __Credit Hours: 3 hrs _Prerequisites: junior or senior standing or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 426 - Medieval Art History
The development of medieval art from the Early Christian through Gothic periods. __Credit Hours: 3 hrs _Prerequisites: ART107 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 427 - Baroque Art
Principal developments in Italian and northern art of the 17th century. Emphasis on major themes and aesthetic problems. __Credit Hours: 3 hrs _Prerequisites: ART108 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 428 - Seminar in 20th Century Art
Readings, reports, and group discussions on 20th century art. Topics may vary. __Credit Hours: 3 hrs _Prerequisites: ART216 or art major _Notes: This is an undergraduate course available for graduate credit.

ART 429 - History of American Architecture
Exploration of styles and techniques in American architecture from the colonial period to the present, with special emphasis on the sources in foreign traditions. Major figures, including Thomas Jefferson, Louis Sullivan, Frank Lloyd Wright, Eero Saarinen and major stylistic trends, such as Greek Revival and the International Style, will be traced back through their origins and development. __Credit Hours: 3 hrs _Prerequisites: ART108 or department permission _Notes: This is an undergraduate course available for graduate credit.

ART 430 - Mesoamerican Art
Exploration of styles and techniques in American architecture from the colonial period to the present, with special emphasis on the sources in foreign traditions. Major figures, including Thomas Jefferson, Louis Sullivan, Frank Lloyd Wright, Eero Saarinen and major stylistic trends, such as Greek Revival and the International Style, will be traced back through their origins and development. __Credit Hours: 3 hrs _Prerequisites: junior or senior standing and department permission _Notes: This is an
undergraduate course available for graduate credit.

**ART 432 - Drawing III**

Drawing as expressive composition. Integration of the techniques of previous courses. Development of individual directions. Includes a variety of media and the study of master drawings. Credit Hours: 3 hrs Prerequisites: ART210; art majors only Notes: This is an undergraduate course available for graduate credit.

**ART 455 - Advanced Textiles**

Advanced problems in fiber structures and fabric processes. Emphasis on portfolio development. Course available to art majors only. Credit Hours: 3 hrs Prerequisites: ART355, ART356 and department permission Notes: This is an undergraduate course available for graduate credit.

**ART 460 - Advanced Graphic Design**

Advanced work in visual communications; students are exposed to theories, philosophies, aesthetics, techniques and experiences used in complex visual communication environments. Credit Hours: 3 hrs Prerequisites: ART302 or ART303 Notes: This is an undergraduate course available for graduate credit.

**ART 480 - Painting**

Further development of individual painting style. Credit Hours: 3 hrs Prerequisites: ART480; art majors only Notes: This is an undergraduate course available for graduate credit.

**ART 481 - Painting**

Further development of individual painting style. Credit Hours: 3 hrs Prerequisites: ART480; art majors only Notes: This is an undergraduate course available for graduate credit.

**ART 487 - Cooperative Education in Art**

Continuation of ART387. Credit Hours: 3 hrs Prerequisites: ART387; approval by graphic design area Notes: This is an undergraduate course available for graduate credit.

**ART 495 - Advanced Textiles**

Advanced problems in fiber structures and fabric processes. Emphasis on portfolio development. Course available to art majors only. Credit Hours: 3 hrs Prerequisites: ART355, ART356 and department permission Notes: This is an undergraduate course available for graduate credit.

**ART 496 - Color, Dye and Fiber**

A study of systematic dye testing via lectures and lab work; emphasis on understanding color in the textile medium. Credit Hours: 3 hrs Prerequisites: ART235 or department permission Notes: This is an undergraduate course available for graduate credit.

**ART 496 - Image Making II**

Image making as applied to advanced communication concepts. Students are exposed to theories, philosophies, aesthetics, techniques and experiences used in visual message building. Credit Hours: 3 hrs Prerequisites: ART302, ART303 or ART346 Notes: This is an undergraduate course available for graduate credit.

**ART 497 - Cooperative Education in Art**

Continuation of ART387. Credit Hours: 3 hrs Prerequisites: ART387; approval by graphic design area Notes: This is an undergraduate course available for graduate credit.

**ART 500 - Photography**

Advanced studio course in photography. Based on background and need of students. Designed for graduate students not majoring in photography. Credit Hours: 2 hrs Prerequisites: department permission Repeatable: May be repeated for credit.

**ART 504 - Aesthetic Education**

This course provides an opportunity to explore and research the four components of discipline-based art education. Emphasis will be placed on aesthetics, its connections with art education and its relationship to general education. Credit Hours: 2 hrs

**ART 505 - New Ideas in Visual Art Education**

Fundamentals of curriculum development and an interdisciplinary approach for developing and implementing the four components of discipline-based art education into school art programs. Credit Hours: 3 hrs

**ART 506 - ARTAG (Art for the Talented and Gifted)**

A workshop course involving interaction of students as teachers with elementary and
junior high students from area schools. Focus will be on a unit of study in art using discipline-based art education. __Credit Hours: 2 hrs

ART 507 - Studio Connections in Art Education
A course designed to help students strengthen their skills in developing units of study for both two-dimensional and three-dimensional art areas using the components of discipline-based art education. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 508 - Research in Visual Arts Education
A course designed for individual research. The purpose is to further studies in art education and to share this information with peers. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 509 - Graphic Design
Advanced graduate studio course in graphic design. Based on background and need of students. Intended for graduate students not concentrating in graphic design. Art majors only. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 510 - Ceramics
Studio course in ceramics. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 512 - Visual Culture and Postmodernism
This course introduces students to contemporary issues in art education including the role of visual culture and comprehensive art education. These approaches reflect the move in art education to build on postmodern though calling for wider range of visual images and objects to be studied in art education programs. __Credit Hours: 3 hrs

ART 513 - Technology, Research and Teaching Visual Arts
This course explores the implications of contemporary art education approaches on technology integration in art curriculum, pedagogy and assessment as well as the issues of technology access and professional development. Students will also learn to apply the acquired knowledge, skill and experience of technology to arts advocacy, collaboration with others and research. __Credit Hours: 3 hrs _Prerequisites: ART331 or department permission

ART 514 - Tradition and Innovation in Visual Arts Education
This course explores the ideas, trends, issues and influential art educators in the histories of art education from American and international perspectives. The goal of the course is to enable students to understand contemporary art education theories and practices and to envision the future directions of art education. __Credit Hours: 3 hrs

ART 516 - Teaching Art from Multiple Perspectives
This course explores recent visual art education curriculum models and approaches that advocate the teaching of arts and aesthetics produced by people of different classes, ethnic groups, genders and local communities in the U.S. and around the world, such as multicultural, community-based, and feminist approaches to art education. __Credit Hours: 3 hrs _Concurrent Prerequisite: _an Upper-Level (400/500) Non-Western Art History course or permission of instructor

ART 520 - Drawing
Advanced studio course in drawing. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 530 - Seminar in 20th Century Art
Readings, reports and group discussions on 20th century art. Topics may vary. Art majors only. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 540 - Jewelry
Advanced studio course in jewelry. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 550 - Printmaking
Advanced studio course in graphics. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 555 - Fibers
Advanced fibers studio focused on developing concepts as they pertain to each student's work. Emphasis on additional research to develop a strong body of work. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 560 - Watercolor
Advanced studio course in watercolor. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 570 - Sculpture
Advanced studio course in sculpture. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 580 - Painting
Advanced studio course in oil painting. Art majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 590 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ART 591 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ART 592 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ART 595 - Workshop in Art
A workshop in studio art/art education/art history focusing on personal observation of the visual arts of a particular area. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 596 - Workshop in Art
A workshop in studio art/art education/art history focusing on personal observation of the visual arts of a particular area. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

ART 598 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 600 - Photography I
Advanced studio course in photography. Based on background and need of students. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

ART 601 - Photography II
Advanced studio course in photography. Based on background and need of students. This course allows the student a more intense photographic experience than ART600. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 602 - Photography III
Advanced studio course in photography. Based on background and need of students. This course allows the student a more intense photographic experience than ART601. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 603 - Photography IV
Advanced studio course in photography. Based on background and need of students. This course allows the student a more intense photographic experience than ART602. __Credit Hours: 4 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ART 604 - Advanced Design Studies
In this class, students are expected to conduct intensive research in design history, theory and criticism. Readings focus on the evaluation of design and on cultural factors that impact design. Reading and writing is stressed. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.

ART 605 - Advanced Design Studies
In this class, students are expected to conduct intensive research in design history, theory and criticism. Readings focus on the evaluation of design and on cultural factors that impact design. Reading and writing is stressed. __Credit Hours: 4 hrs _Prerequisites: ART608 and department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.

ART 606 - Advanced Studio in Graphic Design I
In this class, students are expected to conduct research, produce project proposals and generate studio projects. There may be occasional assigned projects. This class encourages innovative conceptualization and visual experimentation in studio work. __Credit Hours: 2 hrs _Prerequisites: department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.

ART 607 - Advanced Studio in Graphic Design II
In this class, students are expected to conduct more independent project proposals and studio projects than in ART606. There may be occasional assigned projects. This class encourages innovative conceptualization and visual experimentation in studio projects. __Credit Hours: 3 hrs _Prerequisites: department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.

ART 608 - Intensive Studio in Graphic Design I
In this studio class, students are expected to conduct more independent research and generate more independent studio projects than in ART607. Detailed project proposals are required. This class encourages innovative conceptualization and visual experimentation in studio projects. __Credit Hours: 4 hrs _Prerequisites: department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.

ART 609 - Intensive Studio in Graphic Design II
In this studio class, students are expected to conduct more independent research and generate more complex, independent studio projects than in ART608. Detailed project proposals are required. This class encourages innovative conceptualization and visual experimentation in studio projects. __Credit Hours: 4 hrs _Prerequisites: ART608 and department permission _Notes: MA students in major only _Repeatable: May be repeated for credit.
ART 610 - Ceramics
Advanced studio courses in ceramics. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

ART 611 - Ceramics
Advanced studio courses in ceramics. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

ART 612 - Ceramics
Advanced studio courses in ceramics. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

ART 620 - Drawing
Advanced studio courses in drawing. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

ART 621 - Drawing
Advanced studio courses in drawing. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

ART 622 - Drawing
Advanced studio courses in drawing. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

ART 630 - Graduate Studio
The first of four graduate studio courses for M.F.A. degree candidates. Course is conducted on a one-to-one basis. Instructor is selected for the student upon his/her acceptance into the program by the department's graduate committee. Open to M.F.A. candidates only. __Credit Hours: 6 hrs __Prerequisites: department permission __Corequisite: _ART734a _Repeatable: May be repeated for credit.

ART 631 - Graduate Studio
The second of four graduate studio courses for M.F.A. degree candidates. Course is conducted on a one-to-one basis. Instructor is selected for the student upon his/her acceptance into the program by the department's graduate committee. Open to M.F.A. candidates only. __Credit Hours: 6 hrs __Prerequisites: department permission __Corequisite: _ART734b _Repeatable: May be repeated for credit.

ART 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

ART 640 - Jewelry
Advanced studio courses in jewelry. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

ART 641 - Jewelry
Advanced studio courses in jewelry. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

ART 642 - Jewelry
Advanced studio courses in jewelry. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

ART 650 - Printmaking
Advanced studio courses in graphics. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

ART 651 - Printmaking
Advanced studio courses in graphics. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

ART 652 - Printmaking
Advanced studio courses in graphics. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

ART 655 - Advanced Fibers I
Advanced fibers studio focused on developing concepts and techniques as they pertain to each student's work. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

ART 656 - Advanced Fibers II
Advanced fibers studio focused on developing concepts and techniques as they pertain to each student's work. Graduate majors only. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

ART 657 - Advanced Fibers III
Advanced fibers studio focused on continued development of concepts and techniques as they pertain to each student's work. Graduate majors only. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

ART 660 - Watercolor
Advanced studio courses in watercolor. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.
ART 661 - Watercolor
Advanced studio courses in watercolor. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 662 - Watercolor
Advanced studio courses in watercolor. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 665 - Painting
Advanced studio courses in oil painting. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

ART 666 - Painting
Advanced studio courses in oil painting. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 667 - Painting
Advanced studio courses in oil painting. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 668 - Painting
Advanced studio courses in oil painting. Based on background and need of the student. Graduate majors only. __Credit Hours: 4 hrs _Repeatable: May be repeated for credit.

ART 670 - Sculpture
Advanced studio courses in sculpture. Based on background and need of the student. Graduate majors only. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

ART 671 - Sculpture
Advanced studio courses in sculpture. Based on background and need of the student. Graduate majors only. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

ART 672 - Sculpture
Advanced studio courses in sculpture. Based on background and need of the student. Graduate majors only. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 679 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Not more than six hours of special topics may be used on a degree program. _Repeatable: May be repeated for credit.

ART 680 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. __Credit Hours: 2 hrs _Prerequisites: department permission _Notes: Not more than six hours of special topics may be used on a degree program. _Repeatable: May be repeated for credit.

ART 681 - Special Topics
A graduate-level course in a specific area of art, to be determined by the field of specialization of the instructor and the interest of the student. __Credit Hours: 3 hrs _Prerequisites: department permission _Notes: Not more than six hours of special topics may be used on a degree program. _Repeatable: May be repeated for credit.

ART 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ART 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ART 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ART 694 - Seminar in Visual Arts Education
Art education seminar involving research to enhance the class lectures and discussion concerning the subject of art’s relationship to art education. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

ART 695 - Theory in Art
This course investigates the theory, methodology and criticism associated with modern and postmodern ideas. Readings, discussion and regular writing assignments ask students to examine the relationship of these ideas to larger issues such as race, sexuality, mass media and contemporary culture. The seminar will be offered once a year, alternating semesters with the second ART696 Seminar in Contemporary Art course. __Credit Hours: 3 hrs each _Prerequisites: department permission

ART 696 - Seminar in Contemporary Art
Topics based on various ideas, trends and themes in contemporary art will be selected by the instructor. The course will vary widely in subject matter and will not be limited to the study of any one particular art discipline. __Credit Hours: 3 hrs each _Prerequisites: department permission _Repeatable: May be repeated for credit.
ART 697 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission __Repeatable: May be repeated for credit.

ART 698 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 2 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit.

ART 699 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in-depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit.

ART 732 - Graduate Studio
The third of four graduate studio courses for M.F.A. degree candidates. Course is conducted on a one-to-one basis. Instructor is selected for the student upon his/her acceptance into the program by the department's graduate committee. Open to M.F.A. candidates only. __Credit Hours: 6 hrs __Prerequisites: department permission __Corequisite: _ART734c __Repeatable: May be repeated for credit.

ART 734 - Critique and Professional Preparation Seminar
This course will provide an opportunity for students to present and discuss their work with guest critics. In addition, the course will focus on professional preparation such as writing artist statements, the preparation of exhibition and the verbal articulation, presentation and/or defense of one’s art work. __Credit Hours: 3 hrs __Prerequisites: department permission __Corequisite: _ART630; ART631; ART732; ART733 __Repeatable: Must be repeated for a total of 12 credits. __When Offered: This course is offered on a credit/no credit basis.

Astronomy

ASTR 503 - Astronomy I
A nonmathematical descriptive course in astronomy to acquaint the teacher with the general field of astronomy. Many of the topics considered can be used in the elementary classroom. A study of the sun and its family of planets, as well as the stars and nebulae in the universe beyond the solar system. Naked-eye observations of the constellations and telescopic observations of the moon, planets, double stars and clusters. Not open to students who have credit in ASTR203 or ASTR205. __Credit Hours: 2 hrs

ASTR 504 - Astronomy II
A nonmathematical descriptive course in astronomy to increase the teacher’s acquaintance with the general field of astronomy and the work of the astronomer. Many of the topics covered can be used in the elementary and junior high school classroom; the stellar system; a review of the solar system; and the motions of the Earth. Naked-eye and telescopic observations constitute the laboratory phase of the course. __Credit Hours: 2 hrs __Prerequisites: ASTR503 or ASTR203 and ASTR205, or equivalent

ASTR 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program __Credit Hours: 1 hr

ASTR 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program __Credit Hours: 2 hrs

ASTR 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program __Credit Hours: 3 hrs

ASTR 597 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

ASTR 598 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

ASTR 599 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

ASTR 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course
requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

Athletics

ATHL 590 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 1 hr _Prerequisites: department permission

ATHL 591 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 2 hrs _Prerequisites: department permission

ATHL 592 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 3 hrs _Prerequisites: department permission

ATHL 597 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

ATHL 598 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ATHL 599 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

ATHL 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

ATHL 698 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

Apparel Textiles and merchandising

ATHL 679 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 1 hr _Prerequisites: department permission

ATHL 680 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 2 hrs _Prerequisites: department permission

ATHL 681 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect this course more than once, provided different topics are studied. __Credit Hours: 3 hrs _Prerequisites: department permission

ATHL 697 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

ATHL 698 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ATHL 699 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

ATM 504 - History of Textiles
Study of textiles from ancient times to the 20th century; fibers, fabric construction, dyes, finishes and design of textiles from various world regions; emphasis on the development of American textiles. __Credit Hours: 2 hrs

ATM 587 - Cooperative Education
Provides practical experience in the student’s concentration for four to six months of full-time employment with an individual employer. May not be used on 30-hour program plan for the master’s degree. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

ATM 590 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ATM 591 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

ATM 592 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ATM 597 - Independent Study
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ATM 598 - Independent Study
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

ATM 599 - Independent Study
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission
ATM 592 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

ATM 597 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr __Prerequisites: department permission

ATM 598 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 2 hrs __Prerequisites: department permission

ATM 599 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 3 hrs __Prerequisites: department permission

ATM 600 - Research I
Application of the research process through development of a research project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the research project report. __Credit Hours: 2 hrs __Prerequisites: DTC500 and EDPS621

ATM 607 - Colloquium
A study of selected topics in textiles, design and merchandising that addresses specific issues and taught in seminar classes. Emphasis is given to the current issues in the business and also presentations of the technical reports. __Credit Hours: 2 hrs

ATM 625 - The Fashion Field
The nature of fashion, the psychology of fashion, general definitions and background, fashion movements, the fashion centers, fashion trends and the major fashion designers. __Credit Hours: 2 hrs

ATM 634 - Consumer Problems in Clothing and Textiles
Investigation of the sociological, psychological and economic factors involved in the selection and use of textiles and clothing. __Credit Hours: 2 hrs __Prerequisites: department permission

ATM 635 - History of Costume
The costume from ancient times to the present day; major characteristics; social, economic and aesthetic influences; recurring styles; influence on present fashion. __Credit Hours: 2 hrs __Prerequisites: a course in history

ATM 639 - Continuous Enrollment
Graduate students who are completing research (Master’s or Specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

ATM 644 - Recent Developments in Textiles
The nature of textile fibers; economic, chemical and physical problems related to their manufacture and use; technological advances to overcome these problems. Smart fabrics and nanotechnology are taught. __Credit Hours: 2 hrs

ATM 645 - Clothing Design and Construction
Principles of flat pattern design, with application to a variety of styles and fabrics. Special problems in fitting, adaptations of design and processes of construction. __Credit Hours: 2 hrs __Prerequisites: department permission

ATM 650 - Research III
Presentation of culminating experience with emphasis on oral and written methods and skill development. Focus is on research project oral presentation and preparation of a poster presentation and a manuscript. __Credit Hours: 1 hr __Prerequisites: ATM695

ATM 667 - Fabric Design for the Home
Advanced work in experimental design with fabrics, with emphasis on use in the home. __Credit Hours: 2 hrs __Prerequisites: department permission

ATM 671 - Advanced Studies on Yarn and Fabric Construction
An intensive study of textile yarns and fabrics. Both staple and filament yarn constructions and manufacturing are discussed. Basic engineering properties such as tensile properties including complex modulus, providing strength as well as flexural rigidity of yarns are taught. Various fabric structures and their properties such as fabric hand, acoustic property, and mechanical properties are discussed. Fabric's mechanical properties are related to its performance in use. __Credit Hours: 3 hrs

ATM 675 - Textile Analysis
The chemical and physical analysis of fibers, yarns, fabrics and finishes; equipment and techniques used; interpretation of data; presentation of findings to the consumer; textile standards; current textile literature. __Credit Hours: 2 hrs __Prerequisites: ATM644 or department permission

ATM 679 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission
ATM 680 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. Credit Hours: 2 hrs
Prerequisites: department permission

ATM 681 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. Credit Hours: 3 hrs
Prerequisites: department permission

ATM 683 - Workshop
This is a fast track intensive learning of special topics in textile and fashion in a workshop environment conducted by faculty. It is intended to enhance knowledge in current developments, techniques and business in ATM. Credit Hours: 2 hrs
Prerequisites: department permission

ATM 686 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. Credit Hours: 1 hr
Prerequisites: department permission

ATM 687 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. Credit Hours: 2 hrs
Prerequisites: department permission

ATM 688 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. Credit Hours: 3 hrs
Prerequisites: department permission

ATM 689 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. Credit Hours: 4 hrs
Prerequisites: department permission

ATM 690 - Thesis III
Presentation of thesis research with emphasis on oral and written methods and skill development. Focus is on thesis defense and preparation of a poster presentation and manuscript. Credit Hours: 1 hr
Prerequisites: ATM692 and department permission

ATM 691 - Thesis I
Application of the research process through development of a thesis project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the thesis. Credit Hours: 2 hrs
Prerequisites: DTC500 and EDPS621

ATM 692 - Thesis II
Execution of a research project and preparation of thesis as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the thesis. Credit Hours: 3 hrs
Prerequisites: ATM691 and department permission

ATM 695 - Research II
Execution of a research project and preparation of a written report as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the research project report. Credit Hours: 3 hrs
Prerequisites: ATM600

ATM 697 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 1 hr
Prerequisites: department permission

ATM 698 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 2 hrs
Prerequisites: department permission

ATM 699 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 3 hrs
Prerequisites: department permission

Aviation Technology

AVT 422 - Senior Seminar in Aviation Management
Current issues in aviation management will be explored using group and individual projects and analysis of case studies. Research, analysis and application of skills and knowledge acquired in other course work will be stressed. Credit Hours: 3 hrs
Prerequisites: department permission
Notes: This is an undergraduate course available for graduate credit.

AVT 507 - Risk, Safety and the Air Transport Industry
This course will provide an analysis of the current state of, and possible future developments in, air transportation safety, with emphasis on the affects of risk analysis, risk management, system safety, human factors research and the development of new technologies, together with the role of management in the development of an effective safety posture. Credit Hours: 3 hrs

AVT 519 - Issues and Trends in Aviation
This course will present and analyze current and expected future world aviation issues and trends in areas including technology, regulations, policy, training, airspace, manufacturing and safety. __Credit Hours: 3 hrs

AVT 587 - Co-operative Education
Credit Hours: 3 hrs

AVT 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: graduate standing or department permission

AVT 591 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing or department permission

AVT 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs __Prerequisites: graduate standing or department permission

AVT 593 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

AVT 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

AVT 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

AVT 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

AVT 600 - Aviation Performance Technology
This course will present assessment and evaluation methods used to determine the safety status of aviation organizations. These methods are drawn from the field of performance technology. __Credit Hours: 3 hrs

AVT 620 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: graduate standing or department permission

AVT 621 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: graduate standing or department permission

AVT 622 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing or department permission

AVT 623 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs __Prerequisites: graduate standing or department permission

AVT 624 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 5 hrs __Prerequisites: graduate standing or department permission

AVT 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no credit basis.

AVT 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no credit basis.

AVT 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no credit basis.

AVT 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission
AVT 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

Bilingual-Bicultural Education

BILN 590 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

BILN 591 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

BILN 592 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

BILN 597 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

BILN 598 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

BILN 599 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

BILN 622 - Teaching Hispanic Culture and Language
The techniques and materials for teaching the language and culture of Hispanic groups within the bilingual classroom. Not open to students on academic probation. __Credit Hours: 3 hrs __Prerequisites: a minimum of 24 hours of field experience in a bilingual classroom required

BILN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

BILN 679 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

BILN 680 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

BILN 681 - Special Topics
In-depth study of special areas in bilingual education of interest to practitioners and researchers. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

BILN 697 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs

BILN 698 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

BILN 699 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

FLAN 421 - History and Theory of Bilingual Education
Sociolinguistic and psycholinguistic aspects of bilingualism, language acquisition and cognitive development in the bilingual child, different instructional models for bilingual education programs, and school and community relations. A minimum of 24 hours of field experience required. Not open to students on academic probation. __Credit Hours: 3 hrs
BIO 251 - Human Anatomy and Physiology I
An intensive lecture and laboratory course investigating human anatomy and physiology with emphasis on both normal and pathological conditions, in a two-semester sequence. First semester will cover the basic structure and functions of the integumentary, muscular, skeletal, nervous and endocrine systems. __Credit Hours: 3 hrs _Prerequisites: High School Biology

BIO 252 - Human Anatomy and Physiology II
An intensive lecture and laboratory course investigating human anatomy and physiology with emphasis on both normal and pathological conditions, in a two-semester sequence. The second semester will cover circulation, metabolism, the cardiovascular, digestive, excretory and reproductive systems, and the integration of the systems of the body. __Credit Hours: 3 hrs _Prerequisites: BIO251; and BIO105 or CHEM120

BIO 330 - Neuroanatomy
A lecture/laboratory course concerned with the study of the human nervous system, lesions and resulting disabilities. __Credit Hours: 3 hrs _Prerequisites: BIO252 or BIO326

BIO 406 - The Nature of Science
This course examines the nature of scientific evidence, inquiry, hypothesis, models and laws. The development of science is put in the context of the structure and history of the scientific community. Interactions among scientists and between scientists and the rest of society are studied from an ethical perspective. __Credit Hours: 1 hr _Prerequisites: C- or better in BIOL301; department permission required for science majors or minors from other programs _Cross-listed: ESSC406, CHEM406, PHY406 _Notes: This is an undergraduate course available for graduate credit.

BIO 411 - Animal Physiological Ecology
A lecture, laboratory and discussion course covering thermoregulation, metabolic rate, torpor, water flux, and specific adaptations for life in the cold, deserts, high altitude and great depths. Laboratory work emphasizes computerized data acquisition. __Credit Hours: 3 hrs _Prerequisites: BIO305 or BIO310 _Cross-listed: BIO511

BIO 412 - Biogeography
A lecture course involving the descriptive and historical aspects of plant and animal distribution and the basic principles governing their natural distribution in both space and time. __Credit Hours: 2 hrs _Prerequisites: BIO120 and ESSC108, ESSC202, ESSC110 or ESSC111 _Notes: This is an undergraduate course available for graduate credit.

BIO 415 - Microbial Ecology
Interactions among microbes (fungi, bacteria, some phages), other living organisms and the environment, with emphases on parasitism, mutualism, commensalism and biogeochemical recycling of matter. Includes both laboratory and field exercises. __Credit Hours: 3 hrs _Prerequisites: BIO425

BIO 416 - Comparative Anatomy of Vertebrates
The anatomy of the vertebrate organ systems is studied on a comparative basis, which emphasizes the evolutionary development of the groups. Laboratory work includes detailed dissection of a shark and cat. Lecture/Lab Hours: Three one-hour lectures and two two-hour laboratory periods per week. __Credit Hours: 4 hrs _Prerequisites: BIO120 or BIO140 _Notes: This is an
undergraduate course available for graduate credit.

**BIO 501 - Proposal Development in Biology**

Students will develop a focused proposal for experimentation in biology that includes a review of the literature underlying the experimental proposal, a testable hypothesis and an experimental plan. Two one-hour recitation sections per week. __Credit Hours: 1 hr

**BIO 502 - Seminar in Biology**

Presentation of special reports and group discussions of selected topics. __Credit Hours: 1 hr __Prerequisites: Admission to Master of Science in Biology _When Offered: Offered on a credit/no credit basis.

**BIO 509 - Statistics for Biologists**

A course in how and why biologists use statistics. This course emphasizes quantitative thinking about biological problems and introduces statistical tools as necessary to address these problems. As in real research, computers are used for most calculations, freeing humans to concentrate on the interpretation and communication of results. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology

**BIO 510 - Limnology**

A lecture, laboratory and field course dealing with physicochemical and biological interrelationships in standing waters. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology __Cross-listed: BIO410

**BIO 511 - Animal Physiological Ecology**

A lecture, laboratory and discussion course covering thermoregulation, metabolic rate, torpor, water flux, and specific adaptations for life in the cold, deserts, high altitude and great depths. Laboratory work emphasizes computerized data acquisition. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology __Cross-listed: BIO411

**BIO 513 - Wetland Ecosystems**

Advanced field ecology course in the theory and methods of study of wetland ecosystems. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO413

**BIO 514 - Terrestrial Ecosystems**

Advanced field ecology course in the theory and methods of study of the structure and dynamics of terrestrial ecosystems. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO414

**BIO 526 - Immunobiology**

Cellular and molecular responses to immunogens; primary and peripheral immune organs; T-cells and B-cells in cell-mediated and humoral immunity, immune regulation and mechanisms; hypersensitivity; immunity against microbial infectious agents; antigen/antibody reactions in vitro used in research and diagnostics. CHEM451 is highly recommended. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO426

**BIO 527 - Immunobiological Methods**

An individualized laboratory course on antibody production with available antigens; immunodiffusional and immunoelectrophoretic analysis of antigens and their components with available sera; immunobiological research projects of student’s choice. Must be taken concurrently with BIOL526. CHEM452 is highly recommended. Counts as a technique course. __Credit Hours: 1 hr __Prerequisites: BIOL526 (if taken concurrently, students must register for BIOL526 first)

**BIO 528 - General Virology**

A lecture course presenting the molecular nature and replicative strategies of virus families infecting vertebrates. Aspects of virus-induced transformation (tumorigenesis), cell pathology and immune-responses will also be covered. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology

**BIO 540 - Cell Biology**

A lecture course covering the structure and function of the nuclear and cytoplasmic components of the cell. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology

**BIO 542 - Molecular Genetics**

A follow-up to introductory genetics that concentrates on the molecular aspects of the subject. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology

**BIO 543 - Developmental Biology**

A course on the molecular aspects of early development, cytodifferentiation, cell communication, morphogenesis, pattern formation and developmental genetics. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology __Cross-listed: BIO443

**BIO 544 - Tissue Culture Techniques and Methods**

A course on the techniques and methodologies employed in plant and animal cell culture. An introduction to theory and practice which facilitates students’ ability to develop and use in vitro systems. __Credit Hours: 2 hrs __Prerequisites: department permission _Notes: Counts as a technique course.

**BIO 545 - Recombinant DNA Techniques**

A laboratory course that introduces students to basic bacterial molecular biology, gene cloning, DNA sequencing and DNA sequence analysis. __Credit Hours: 3 hrs __Prerequisites: department permission _Notes: Counts as a technique course.

**BIO 546 - Genome Analysis**

An introductory course to the field of genomics. This involves the study of genome data and exploration of the organization,
A survey of the freshwater algal divisions. The laboratory component involves analyses of genes, genomic variation/DNA fingerprinting, DNA sequences and molecular evolution. __Credit Hours: 4 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO446 _Notes: Counts as a technique course.

BIO 547 - Scanning Electron Microscopy
A lecture-laboratory course that provides the basic theory and practice of scanning electron microscopy. Lectures are coordinated with individualized instruction on laboratory equipment. Students design and conduct an original research project that is presented in both written and oral forms at the end of the semester. Counts as a technique course. __Credit Hours: 3 hrs __Prerequisites: department permission _Cross-listed: BIO447

BIO 548 - Bioinformatics
Bioinformatics is an emerging field that comprises the intersection of biology, mathematics and computer science to address biological and medical research problems. This course is an introduction to bioinformatics, which includes a survey of existing public databases and strategies for applying bioinformatics techniques to a variety of biological research problems. Completion of an introductory biology course is assumed. __Credit Hours: 3 hrs _Notes: Counts as a technique course.

BIO 554 - Plant Evolution and Classification
A lecture, laboratory and field course addressing the principles of plant systematics and taxonomy and techniques of obtaining and analyzing data used in systematics. Major plant groups will be studied by collection, preservation and identification of specimens. Not open to students who hold credit in BOTN455. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO455 _Notes: Counts as a taxonomic field course.

BIO 555 - Freshwater Algae
A survey of the freshwater algal divisions; their morphology, taxonomy, ecology and economic importance. Lectures will emphasize an evolutionary approach. Laboratory work will stress the identification of representative algal taxa. A class field study will be required. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO456 _Notes: Counts as a taxonomic field course.

BIO 555 - Aquatic Plants
Analysis of vascular aquatic and wetland plants and habitats. Lectures stress physical and biological habitat features and plant adaptations. Laboratories stress identification of aquatic and wetland species. __Credit Hours: 3 hrs _Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO457 _Notes: Counts as a taxonomic field course.

BIO 556 - Trees and Shrubs
A taxonomic field course on identification of native trees and shrubs in winter and spring condition. __Credit Hours: 3 hrs __Prerequisites: Admission to Master of Science in Biology _Cross-listed: BIO458 _Notes: Counts as a taxonomic field course.

BIO 557 - Biological Aspects of Aging
A survey of aging changes at the cellular, tissue and organismal level in plants and animals from protozoa to human. The major theories of aging will be considered. A course in chemistry is recommended. Not open to students with credit in BIOL239. __Credit Hours: 2 hrs __Prerequisites: one college level course in biology at the 100- or 200-level

BIO 556 - Ichthyology
Vertebrates, their adaptations and natural history: the taxonomic classification, identification and distribution of local and other forms. Fieldwork, sometimes under adverse weather conditions and at night; accurate original data on local species. Counts as a taxonomic field course. __Credit Hours: 3 hrs _Prerequisites: admission to master of science in biology _Cross-listed: BIO481

BIO 580 - Natural History of Invertebrates
Vertebrates, their adaptations and natural history; the taxonomic classification, identification and distribution of local and other forms. Fieldwork, sometimes under adverse weather conditions and at night; accurate original data on local species. Counts as a taxonomic field course. __Credit Hours: 3 hrs _Prerequisites: admission to master of science in biology _Cross-listed: BIO482

BIO 583 - Mammalogy
Some aspects of the biology of mammals; origin and evolution, anatomy, classification, adaptations and zoogeography. Natural history and ecology are studied in the field, including behavior and population dynamics. A collection of five or more museum study specimens of different species is required of each student. Counts as a taxonomic field course. __Credit Hours: 3 hrs _Prerequisites: admission to master’s of science in biology _Cross-listed: BIO483

BIO 582 - Ichthyology
A study of some aspects of the biology, classification, distribution, and evolution of fishes. Attention is given to the morphology, physiology, behavior, natural history and ecology of fishes through work in lecture, laboratory and in the field. Specific experience in the identification of the freshwater fishes of the Great Lakes region is provided in addition to a general survey of some marine fish families. Counts as a taxonomic field course. __Credit Hours: 3 hrs __Prerequisites: admission to master of science in biology _Cross-listed: BIO482

BIO 581 - Natural History of Vertebrates
Vertebrates, their adaptations and natural history; the taxonomic classification, identification and distribution of local and other forms. Fieldwork, sometimes under adverse weather conditions and at night; accurate original data on local species. Counts as a taxonomic field course. __Credit Hours: 3 hrs _Prerequisites: admission to master of science in biology _Cross-listed: BIO480
BIO 585 - Ornithology
Field identification and census methods of summer and fall bird populations, behavior and ecology. A survey in the laboratory of major North American bird families. A student field project is required. Counts as a taxonomic field course. __Credit Hours: 3 hrs __Prerequisites: admission to master of science in biology _Cross-listed: BIO484

BIO 586 - Entomology
A survey of the world of insects, their structure, function, behavior and ecology; identification and classification of local insects. A field project is required. Counts as a taxonomic field course. __Credit Hours: 3 hrs __Prerequisites: admission to master of science in biology _Cross-listed: BIO486

BIO 587 - Cooperative Education in Biology
Four to six months of full-time employment at an industrial firm or laboratory specially chosen for imparting a practical educational experience in biology or technology. The program consists of work experience alternating with full-time attendance at the University. Admittance to program by application only. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

BIO 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

BIO 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

BIO 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

BIO 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

BIO 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

BIO 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

BIO 680 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

BIO 681 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

BIO 686 - Cooperative Education in Biology
Four to six months of full-time employment at an industrial firm or laboratory specially chosen for imparting a practical educational experience in biology or technology. The program consists of work experience alternating with full-time attendance at the University. Admittance to program by application only. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

BIO 687 - Cooperative Education in Biology
Four to six months of full-time employment at an industrial firm or laboratory specially chosen for imparting a practical educational experience in biology or technology. The program consists of work experience alternating with full-time attendance at the University. Admittance to program by application only. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

BIO 689 - Practicum in Biology
Practical experience in a particular field study, with each student responsible for the experimental design and the collection, analysis and interpretation of field data for a specific area within a broader problem under group investigation. __Credit Hours: 1 hr __Prerequisites: department permission
Biology

Four to six months of full-time employment at an industrial firm or laboratory specially chosen for imparting a practical educational experience in biology or technology. The program consists of work experience alternating with full-time attendance at the University. Admittance to program by application only. __Credit Hours: 2 hrs__ __Prerequisites: department permission__ _When Offered: Offered on a credit/no-credit basis._

BIO 687 - Practicum in Biology

Practical experience in a particular field study, with each student responsible for the experimental design and the collection, analysis and interpretation of field data for a specific area within a broader problem under group investigation. __Credit Hours: 3 hrs__ __Prerequisites: department permission__ _When Offered: Offered on a credit/no-credit basis._

BIO 688 - Cooperative Education in Biology

Four to six months of full-time employment at an industrial firm or laboratory specially chosen for imparting a practical educational experience in biology or technology. The program consists of work experience alternating with full-time attendance at the University. Admittance to program by application only. __Credit Hours: 3 hrs__ __Prerequisites: department permission__ _When Offered: Offered on a credit/no-credit basis._

BIO 691 - Thesis

Intensive research into a biological problem, under the guidance and supervision of a graduate faculty member in the Department of Biology, and the preparation of a thesis consistent in substance and form with the standards of the discipline. __Credit Hours: 1 hr__ __Prerequisites: department permission__ _When Offered: Offered on a credit/no-credit basis._

BIO 692 - Thesis

Intensive research into a biological problem, under the guidance and supervision of a graduate faculty member in the Department of Biology, and the preparation of a thesis consistent in substance and form with the standards of the discipline. __Credit Hours: 2 hrs__ __Prerequisites: department permission__ _When Offered: Offered on a credit/no-credit basis._

BIO 697 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr__ __Prerequisites: department permission__

BIO 698 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs__ __Prerequisites: department permission__

BIO 699 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs__ __Prerequisites: department permission__

IHHS 226 - Computers for Health and Human Services

This interdisciplinary computer literacy course will introduce students to computers and their applications in health and human services. Students will learn about computers and computer languages. This course will include applications of computer technology to direct services for clients as well as the use of computers to manage work. __Credit Hours: 3 hrs

Biology Teaching

BIOT 403 - Methods for Teaching Secondary Biology

A lecture-laboratory course providing knowledge, training and practice in the presentation of biological principles, analysis of texts, selection of course content, effective classroom methods and preparation of classroom materials used in the teaching of biology. __Credit Hours: 3 hrs__ __Prerequisites: BIO301, CURR305, EDPS340; admission to the teacher education program _Notes: Does not count toward major or minor. This is an undergraduate course approved for graduate credit._

BIOT 500 - Survey of the Plant Kingdom

A lecture, laboratory and field course in the behavior, ecology and broad classification of plants and animals, giving training in recognition of common plants and animals of Michigan. Gives background material to the nonspecialist interested in outdoor life, and to the elementary school teacher. __Credit Hours: 4 hrs__

BIOT 501 - Survey of the Animal Kingdom

A survey of the major animal groups from protozoans to mammals. Structure function; the basis for classification and the evolutionary relationships of the several groups. This course is intended for inservice teachers. __Credit Hours: 2 hrs _Notes: Not open to students who hold credit in BIO140._

BIOT 502 - Animal Behavior

This course examines the scientific study of animal behaviors. It covers how animals use behavior to meet the major challenges of life and how scientists test hypotheses and evaluate evidence regarding animal behavior.
Secondarily, this course examines how scientists communicate with each other and the public. __Credit Hours: 2 hrs

BIOT 503 - Plants and Nature
Plants in their natural environment; identification and classification of local flowering plants, use of hand-lens and plant manuals, and methods of collection and preservation. Major plant groups and their climatic and geographic significance. This course is intended for in-service teachers. __Credit Hours: 2 hrs

BIOT 504 - Plant Products in Industry
The various ways in which plants and plant products are utilized in modern industry; plants and the source of technical raw materials; the dependence of man upon the plant kingdom. This course is intended for in-service teachers. Not open to students who have credit in BOTN215. __Credit Hours: 2 hrs _Cross-listed: BIO215

BIOT 505 - Science in the Elementary School
A survey of subject matter and process skills utilizing current science texts and courses of study; readings in current literature; the construction and use of science materials; supply and equipment needs for elementary science. Not open to students who hold credit in ESCI302 or BIOL303. __Credit Hours: 2 hrs _Prerequisites: department permission

BIOT 508 - Evolution: Fact and Theory
Evidence bearing on the origin and evolution of life and the processes involved are critically examined in this lecture and discussion course. Original term paper on an aspect of recent advances in evolutionary theory required. __Credit Hours: 2 hrs _Prerequisites: department permission

BIOT 530 - Understanding Our Environment
Inquiry-based outdoor investigations, field trips to unique Michigan ecosystems and survey of instructional and technological resources will help educators use outdoor and indoor science and environmental education activities with young people and adults. Emphasis will be placed on how course materials and resources align with national and state standards. Note: this course will not count towards the biology major, minor or the master’s degree in biology. This course is intended for in-service teachers. __Credit Hours: 3 hrs _Prerequisites: senior standing

BIOT 531 - Field Studies for Life Science Educators
This lecture, laboratory and field course examines diversity, habitat and classification of common plants and animals found in Michigan. Emphasis will be placed on endangered and nuisance species in relation to human impact and conservation. Best practices for K-12 classroom instruction will be covered including inquiry and constructivist learning. Note: this course will not count towards the biology major, minor or the master’s degree in biology. This course is intended for in-service teachers. __Credit Hours: 4 hrs _Prerequisites: senior standing

BIOT 532 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

BIOT 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

BIOT 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

BIOT 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

When Offered: Offered on a credit/no-credit basis.
BIOT 691 - Thesis
Intensive research into a biological problem, under the guidance and supervision of a graduate faculty member in the Department of Biology, and the preparation of a thesis consistent in substance and form with the standards of the discipline. __Credit Hours: 2 hrs _Prerequisites: department permission
__When Offered: Offered on a credit/no-credit basis.

BIOT 692 - Thesis
Intensive research into a biological problem, under the guidance and supervision of a graduate faculty member in the Department of Biology, and the preparation of a thesis consistent in substance and form with the standards of the discipline. __Credit Hours: 2 hrs _Prerequisites: department permission
__When Offered: Offered on a credit/no-credit basis.

BIOT 693 - Seminar in Science Education
Presentation of special reports and group discussions on selected topics. Offered on a credit/no-credit basis. Counts as a technique course. __Credit Hours: 1 hr _Prerequisites: 20 hours in biology, biology teaching and/or elementary science at the 300-, 400-, 500- or 600-level.

BIOT 694 - Seminar in Science Education
Presentation of special reports and group discussions on selected topics. Offered on a credit/no-credit basis. Counts as a technique course. __Credit Hours: 2 hrs _Prerequisites: 20 hours in biology, biology teaching and/or elementary science at the 300-, 400-, 500- or 600-level.

Computer-Aided Engineering

CAE 503 - Advanced CNC and Robotics
Study of computer numerical control technology in machining and robotics. Conversion of part descriptions to numerical control programs for mill, lathe and three-axis machining centers. Robotics programming and CAD/CAM/CNC programming for producing the instruction codes necessary to manufacture parts with NC machine tools are emphasized. Verification of the computer assisted CNC and robotics programs will be accomplished in the laboratory. __Credit Hours: 2 hrs _Prerequisites: MFG361 or equivalent

CAE 527 - Engineering Software Development
This course introduces software tools and programming techniques used by engineers. It is intended for anyone involved in engineering design, analysis and software development. Engineering software developments related to real life applications are included. __Credit Hours: 2 hrs _Prerequisites: any programming language

CAE 535 - Computer-Aided Engineering
This course provides the necessary knowledge to use a computer as a tool for engineering calculation, analysis and design. Theoretical development and procedure of finite element method are presented. CAE packages and other engineering software will be utilized. __Credit Hours: 2 hrs

CAE 537 - Advanced Mechanics of Materials
This course covers advanced knowledge of mechanics of materials. The emphasis will be given to the practical treatments of stress, strain, deformation, thin shells, thick-walled vessels, flexural stresses, theory of failure and contract stresses that are important in engineering design. __Credit Hours: 2 hrs _Prerequisites: CADM325 or equivalent

CAE 545 - Engineering Simulation
This course introduces engineering software tools and techniques for computer modeling and simulation of mechanical components and systems. It is intended for anyone involved in engineering design, modeling, simulation and analysis. Supporting processes from concept to final product using CAD/CAE solutions are included. __Credit Hours: 2 hrs _Prerequisites: any CAD modeling experience

CAE 565 - Mechanical System Design
A study of mechanical system design.

CAE 567 - Plastics, Materials and Processes
A study of industrial plastics materials and manufacturing processes. The course emphasizes physical testing techniques and the utilization of processing equipment to create materials for testing. Students will investigate amorphous and semicrystalline thermoplastics in injection molding, extrusion, thermoforming and blow molding processes. __Credit Hours: 2 hrs _Prerequisites: PHY230 or equivalent

CAE 575 - Advanced Engineering Dynamics
This course presents the foundations and applications of dynamics by emphasizing the importance of visual analysis of topics — especially through the use of free body diagrams. It also promotes a problem-solving approach to solving through its strategy, solution and discussion format in examples. It also includes design and computational examples. __Credit Hours: 2 hrs

CAE 578 - Advanced Finite Element Analysis
The study of the application aspects of employing FEA as a significant aid in the design and analysis processes. Topics will center on the practical considerations associated with the use of FEA packages in heat transfer, stress and strain analysis, and vibration analysis. __Credit Hours: 2 hrs _Prerequisites: CADM435 or equivalent

CAE 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.
CAE 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

CAE 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

CAE 597 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 1 hr _Prerequisites: department permission

CAE 598 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 3 hrs _Prerequisites: department permission

CAE 599 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 2 hrs _Prerequisites: department permission

CAE 625 - Plastics Mold Design and Manufacturing
A study of the principles of mold design for a variety of plastics mold processes. The course includes mold materials, stress and strength calculations, heat transfer predictions, machining, fabricating and testing in processing equipment. __Credit Hours: 2 hrs _Prerequisites: CAE567 or equivalent

CAE 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

CAE 650 - Computer-Aided Manufacturing
The use of the computer in planning manufacturing operations, solving manufacturing and related problems, and controlling manufacturing processes for batch and continuous production. __Credit Hours: 2 hrs

CAE 675 - CAE Capstone
An integration of various aspects of product and project design, engineering analysis and manufacturing. Emphasis on mechanical design using failure theories, kinematics and mechanisms design, FEA analysis, dynamic analysis, manufacturing processes, as well as CNC programming and machining for development a project. __Credit Hours: 2 hrs _Prerequisites: CAE537, CAE565, CAE575, CAE585

CAE 699 - Industrial Internship
A field study of industrial theory and practice through internship experiences with cooperating industries. Designed for students desiring experiences beyond those obtained in their previous or present employment. __Credit Hours: 2 hrs
CAE 690 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 1 hr _Prerequisites: department permission and 12 hours in one’s graduate concentration

CAE 691 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 3 hrs _Prerequisites: department permission and 12 hours in one’s graduate concentration

CAE 692 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 3 hrs _Prerequisites: department permission and 12 hours in one’s graduate concentration

CAE 693 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 1 hr _Prerequisites: department permission

CAE 694 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 2 hrs _Prerequisites: department permission

CAE 695 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 3 hrs _Prerequisites: department permission

CAE 697 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 1 hr _Prerequisites: department permission

CAE 698 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 2 hrs _Prerequisites: department permission

CAE 698 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 3 hrs _Prerequisites: department permission

College of Arts and Sciences

CASI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion.

CASI 650 - Current Challenges in Bioinformatics Seminar
This course provides an opportunity for students to work in teams on real-life problems of bioinformatics. Students will apply their team-building skills to solve problems provided by biotechnology and pharmaceutical companies. This course is specifically designed for students enrolled in the professional master’s in bioinformatics program. __Credit Hours: 3 hrs _Prerequisites: department permission

CASI 680 - Internship in Bioinformatics
This course provides an introduction to applied bioinformatics in a professional, for-profit environment. Students have an opportunity to apply their technical, communication and teambuilding skills in biotechnology and pharmaceutical companies of all sizes. This course is specifically designed for students enrolled in the Professional Master’s in Bioinformatics Program. __Credit Hours: 3 hrs _Prerequisites: department permission

Chemistry

CHEM 117 - Fundamentals of Chemistry-Lecture
A rapidly moving introductory study of basic principles in general chemistry. Includes elements, compounds, periodic properties, atomic structure, gas laws and stoichiometry. Can be used with CHEM118 to satisfy the chemistry prerequisite for CHEM121. CHEM118 must be taken concurrently to satisfy four credits of the Knowledge of the Disciplines - Natural Science portion of the General Education program. __Credit Hours: 3 hrs _Prerequisites: MATH104, MATH105, MATH107, MATH112, MATH118, MATH119, MATH120 or Level 3 math placement;

CHEM 411 - Toxicology I
An introduction to the principles and methods of toxicology. Special cases of toxic response including carcinogenesis, teratogenesis and mutagenesis, and the effects of radiation are discussed.

Lecture/Lab Hours: Two hours lecture per week. __Credit Hours: 2 hrs _Prerequisites: CHEM270 or CHEM372 _Notes: This is an undergraduate course available for graduate credit.

CHEM 412 - Toxicology II
Discussion of the metabolism of toxicants and their effect on specific organ systems; specific classes of toxicants and legal aspects of toxicology.

Lecture/Lab Hours: Two hours lecture per
week. __Credit Hours: 3 hrs _Prerequisites: CHEM411; biochemistry recommended _Notes: This is an undergraduate course available for graduate credit.

**CHEM 413 - Toxicology Laboratory**
A lecture and laboratory covering the techniques employed in a toxicology laboratory including methods of calculation, interpretation and presentation of experimental data. The theory and practical aspects of toxicological procedures will be discussed.

Lecture/Lab Hours: Lecture: one hour per week; Laboratory: three hours per week. __Credit Hours: 2 hrs _Prerequisites: CHEM411; CHEM281 recommended

**CHEM 415 - Environmental Chemistry**
A survey of environmental and energy-related problems and the ways in which chemistry may be applied to them. Important topics include air and water pollution, energy and other resources, solid wastes and recycling, and toxic chemicals.

Lecture/Lab Hours: Three hours of lecture per week. __Credit Hours: 3 hrs _Prerequisites: CHEM123/124 or CHEM125/126; CHEM270 or CHEM372 and CHEM281 recommended _Notes: This is an undergraduate course available for graduate credit.

**CHEM 416 - Inorganic Chemical Developments**
An advanced-level treatment of the newer inorganic chemical developments, with emphasis on theoretical advances in the interpretation of bonding and reactivity of inorganic compounds.

Lecture/Lab Hours: Lecture: three hours per week; Laboratory: six hours per week. __Credit Hours: 3 hrs _Prerequisites: CHEM465 or department permission; CHEM332 recommended

**CHEM 417 - Advanced Inorganic Chemistry**
An advanced-level treatment of the newer inorganic chemical developments, with emphasis on theoretical advances in the interpretation of bonding and reactivity of inorganic compounds.

Lecture/Lab Hours: Lecture: three hours per week; Laboratory: six hours per week. __Credit Hours: 3 hrs _Prerequisites: CHEM465 or department permission; CHEM332 recommended

**CHEM 418 - Biochemistry I**
Chemistry of biologically significant compounds such as proteins, nucleic acids, carbohydrates and lipids. Enzymes are introduced, bioenergetics is discussed and the most central topics of metabolism are outlined. This course is intended as a one-semester survey of biochemistry for health science students and as the first semester of a two-semester sequence for chemistry, biology and toxicology students.

Lecture/Lab Hours: Three hours lecture per week. __Credit Hours: 3 hrs _Prerequisites: CHEM123/124 or CHEM125/126; and CHEM270 or CHEM372 _Notes: This is an undergraduate course available for graduate credit.

**CHEM 419 - Biochemistry II**
Continues the survey of biochemistry begun in CHEM451. Membranes and transport, enzyme kinetics, further topics in metabolism, replication, transcription, translation and regulation of cell processes are discussed.

Lecture/Lab Hours: Three hours lecture per week. __Prerequisites: C- or better in CHEM451 _Notes: This is an undergraduate course available for graduate credit.

**CHEM 420 - Biochemistry Laboratory**
Theory and application of preparative and analytical techniques of inorganic and organic chemistry including extensive use of IR, NMR, UV-visible and other instruments. __Credit Hours: 2 hrs _Prerequisites: CHEM281 or CHEM282; and CHEM373 or CHEM376 _Notes: This is an undergraduate course available for graduate credit.

**CHEM 421 - Biochemistry Laboratory**
Theory and application of preparative and analytical techniques in the investigation of the biochemical and biophysical properties of proteins and nucleic acids. Emphasis is placed on communication of experimental results in the form of scientific manuscripts.

Lecture/Lab Hours: Six hours laboratory per week. __Credit Hours: 2 hrs _Prerequisites: CHEM451 or CHEM351; CHEM271 or CHEM373 or CHEM376; and CHEM281 strongly recommended _Notes: This is an undergraduate course available for graduate credit.

**CHEM 422 - Introduction to Radiotracer Techniques**
Measurement of radiation and principles of radiation safety; experiments with emphasis on beta and gamma-ray counting and handling radioactivity.

Lecture/Lab Hours: Lecture: one hour per ...
week; Laboratory: three hours per week. __Credit Hours: 2 hrs __Prerequisites: CHEM123/125 or CHEM125/126; and either CHEM281, one science laboratory course above the 200-level or department permission __Notes: This is an undergraduate course available for graduate credit.

CHEM 487 - Cooperative Education in Chemistry
Full- or part-time employment at an industrial, federal or state agency chemistry laboratory providing an applied experience in chemistry. Amount of credit granted determined by the nature of job responsibilities and/or duration of placement. __Credit Hours: 1 hr __Notes: Graded on a credit/no-credit basis. This is an undergraduate course for graduate credit.

CHEM 488 - Cooperative Education in Chemistry
Full- or part-time employment at an industrial, federal or state agency chemistry laboratory providing an applied experience in chemistry. Amount of credit granted determined by the nature of job responsibilities and/or duration of placement. __Credit Hours: 2 hrs __Notes: Graded on a credit/no-credit basis. This is an undergraduate course for graduate credit.

CHEM 489 - Cooperative Education in Chemistry
Full- or part-time employment at an industrial, federal or state agency chemistry laboratory providing an applied experience in chemistry. Amount of credit granted determined by the nature of job responsibilities and/or duration of placement. __Credit Hours: 3 hrs __Notes: Graded on a credit/no-credit basis. This is an undergraduate course for graduate credit.

CHEM 515 - Industrial and Environmental Chemistry
A three-part course covering selected aspects of industrial organic chemistry, industrial inorganic chemistry and environmental chemistry. Environmental problems most closely associated with the production aspects of industrial chemistry will be discussed. __Credit Hours: 3 hrs __Prerequisites: one year of organic chemistry; one course in inorganic chemistry; one course in physical chemistry

CHEM 551 - Macromolecular Biochemistry
This course consider the fundamental themes of nucleic acid biochemistry including DNA structure, folding, replication and repair mechanisms transcription; translation; gene regulation and techniques in recombinant DNA technology. Emphasis is placed on chemical mechanisms of these processes and targets for drug development. Text and literature articles are utilized. __Credit Hours: 2 hrs __Prerequisites: CHEM451 or instructor permission

CHEM 554 - Protein Structure and Function
The description of chemical and molecular biological approaches to investigating protein structure, and methods to analyze protein function. Rapid and steady-state kinetics, recombinant DNA technology and expression systems, metabolic and protein assay development and relevant computer applications will be highlighted. __Credit Hours: 2 hrs __Prerequisites: CHEM451 or equivalent or instructor permission

CHEM 555 - Neurochemistry
Discussion of the biochemistry of the nervous system covering the synthesis, distribution, mechanism of function and degradation of compounds involved in neural function (including neurotransmitters, neurohormones, brain sphingolipids, steroids and prostaglandins). Mental diseases with a known biochemical basis and the rationale for drug therapy are described. __Credit

CHEM 561 - Quantum Chemistry and Spectroscopy
A study of atomic and molecular structure and spectroscopy based on quantum chemistry. __Credit Hours: 2 hrs __Prerequisites: CHEM465 or equivalent

CHEM 562 - Statistical Mechanics and Chemical Kinetics
Introduction to the principles of statistical mechanics, the connection between the microscopic world and classical thermodynamics, and modern theories of chemical reaction rates. __Credit Hours: 2 hrs __Prerequisites: CHEM465 or equivalent

CHEM 564 - Physical-Chemical Characterization of Polymers
Physical methods of polymer characterization, including molecular weight determination, size fractionation, thermal analysis, degradation, depolymerization and reaction kinetics. Laboratory: six hours per week. __Credit Hours: 2 hrs __Prerequisites: CHEM463 and CHEM475, or equivalent

CHEM 565 - Nuclear Chemistry
The course will cover topics such as radioactive decay, decay systematics, nuclear models and nuclear reactions. Applications of radioactivity to chemical problems will be discussed. Techniques of nuclear chemistry, nuclear processes as chemical probes and other such topics will be covered. A discussion of the preparation and properties of transplutonium elements will be included. __Credit Hours: 3 hrs __Prerequisites: one year of college chemistry; one course in physical chemistry or modern physics

CHEM 571 - Advanced Organic Chemistry
A lecture course devoted to developing a deeper understanding of the structure of organic compounds and the mechanism of organic reactions. The structural aspects of bonding, stereochemistry and conformation
CHEM 572 - Spectrometric Organic Structure Determination
The use of infrared, Raman, ultraviolet, mass and nuclear magnetic resonance spectroscopy in organic structure determination will be discussed. Emphasizes problem-solving and practical applications. __Credit Hours: 4 hrs __Prerequisites: CHEM372 or equivalent

CHEM 574 - Advanced Organic Chemistry Topics
Two or three advanced topics are treated in depth. The topics selected will vary from offering to offering and could include such examples as: stereochemistry and conformational analysis, natural product chemistry, heterocyclic compounds, orbital symmetry rule and applications, and photochemistry. __Credit Hours: 2 hrs __Prerequisites: CHEM372 or equivalent

CHEM 581 - Advanced Analytical Chemistry
Practical applications of modern chemical analysis using instrumental methods, which may include optical, x-ray and nuclear spectroscopy, mass spectrometry and separations. __Credit Hours: 3 hrs __Prerequisites: CHEM463 and either CHEM361, CHEM461 or CHEM481

CHEM 590 - Special Topics
An in-depth study of a specialized area of chemistry. Not offered on a regular basis. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing

CHEM 592 - Special Topics
An in-depth study of a specialized area of chemistry. Not offered on a regular basis. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing

CHEM 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission

CHEM 598 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs __Prerequisites: department permission

CHEM 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission

CHEM 601 - Information Retrieval in Chemistry
A course designed primarily to provide M.S. candidates with a proficiency in locating chemical information by independent study. Exercises are relevant to research and involve both manual and computerized information retrieval. __Credit Hours: 1 hr __Prerequisites: CHEM463 and either CHEM361, CHEM461 or CHEM481

CHEM 610 - Information Retrieval in Chemistry
A course designed primarily to provide M.S. candidates with a proficiency in locating chemical information by independent study. Exercises are relevant to research and involve both manual and computerized information retrieval. __Credit Hours: 1 hr __Prerequisites: CHEM463 and either CHEM361, CHEM461 or CHEM481

CHEM 617 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

CHEM 620 - Advanced Polymer Chemistry
The reactions used to form specialty polymers including polyaromatic heterocycles and metal-containing polymeric systems in semiconducting materials; the use of phosphazines and siloxanes and the development of new monomer systems; composites and polymer blends in multiphase systems; polymers and polymeric materials in electronics and medicine. __Credit Hours: 2 hrs __Prerequisites: CHEM361, CHEM372 and CHEM373, or equivalent

CHEM 630 - Advanced Physical Chemistry
Physical and chemical methods for determining structures of inorganic substances and the relationship between structure and descriptive chemistry will be discussed. __Credit Hours: 3 hrs __Prerequisites: CHEM361, CHEM372 and CHEM373, or equivalent

CHEM 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

CHEM 655 - Advanced Biochemistry Topics
Specialized areas of biochemistry are discussed in depth, with an emphasis on recent research developments. __Credit Hours: 2 hrs __Prerequisites: CHEM452 or equivalent

CHEM 665 - Physical Chemistry of Polymers
Thermodynamics and kinetics of step-growth and chain-growth polymerizations, the configuration and conformation of polymers, the properties of polymer solutions and phase equilibria, including crystallinity and molecular weight determination. __Credit Hours: 3 hrs __Prerequisites: CHEM465 and CHEM475, or equivalent

CHEM 675 - Advanced Organic Polymer Chemistry
The reactions used to form specialty polymers including polyaromatic heterocycles and metal-containing polymeric systems in semiconducting materials; the use of phosphazines and siloxanes and the development of new monomer systems; composites and polymer blends in multiphase systems; polymers and polymeric materials in electronics and medicine. __Credit Hours: 2 hrs __Prerequisites: CHEM361, CHEM372 and CHEM373, or equivalent

CHEM 679 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course
CHEM 680 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Does not count toward M.S. in chemistry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

CHEM 681 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Does not count toward M.S. in chemistry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

CHEM 693 - Seminar in Chemistry
Discussion of specific topics in chemistry by graduate students. Emphasis will be placed on the improvement of oral communication techniques for presentation of scientific material. __Credit Hours: 1 hr __Prerequisites: department permission

CHEM 697 - Research in Chemistry
The student performs original research under faculty direction. Repeat enrollment is allowed. Thesis is submitted after completion of six to 10 hours of research in chemistry. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CHEM 699 - Research in Chemistry
The student performs original research under faculty direction. Repeat enrollment is allowed. Thesis is submitted after completion of six to 10 hours of research in chemistry. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

Children's Literature

CHL 450 - Children's Literature: Criticism and Response
Practical criticism of children's literature, prose and poetry, designed to help students develop critical judgment and a clear prose style. Applies toward the minor in children's literature and the interdisciplinary minor in children's literature and drama/theatre for the young. __Credit Hours: 3 hrs __Prerequisites: LITR207 _Notes: This is an undergraduate course available for graduate credit.

CHL 451 - Writing about Controversies in Literature for the Young
This course will deal with strategies for the collection, organization and presentation of materials dealing with controversial issues in literature for young adults. __Credit Hours: 3 hrs __Prerequisites: ENGL121 and LITR207 or department permission _Notes: This is an undergraduate course available for graduate credit.

CHL 516 - Introduction to Graduate Studies in Children's Literature
This course is designed to prepare students for further graduate study by emphasizing research methods, writing conventions and an intensive survey of the major genres of children's literature. __Credit Hours: 3 hrs

CHL 517 - Children's Literature for Teachers

A course concentrating on the value of literature for children, with discussion and demonstration of various techniques used in teaching it. Additional readings in selected genres will be required. Offered for anyone planning to work with children, preschool through grade nine. __Credit Hours: 3 hrs

CHL 518 - History of Children's Literature
This course surveys the major children's authors, genres and literary movements that constitute the history of children's literature. The course also considers the history of childhood and other subjects related to children's social and intellectual development. __Credit Hours: 3 hrs

CHL 582 - Folktales, Legends and Ballads
Reading and analysis of printed tales, legends and ballads using the tools of folklore scholarship. Students also collect and analyze oral materials. __Credit Hours: 3 hrs

CHL 583 - Children's Illustrated Texts
This course examines different kinds of illustrated texts aimed at children and young readers. Primarily, the class looks at the picture book, its historical development, current illustrators and theories of illustration. The class also examines associated genres such as the comic book and graphic novel and consider theoretical issues concerning illustration in general. __Credit Hours: 3 hrs

CHL 585 - Children's Literature: Criticism and Response
This course emphasizes reading and writing about children's literature and literary criticism specific to the field of children's literature. Students will gain fluency in current scholarly discussions discussions in the discipline that will help them to enter into and take part in critical dialogues. __Credit Hours: 3 hrs

CHL 586 - Multicultural Children's Literature
Advanced study of the literature for children and young adults by and about
underrepresented groups in America, including history of multicultural writing for the young; major issues and controversies of multiculturalism; historical and cultural backgrounds of each group; and critical apparatus for the selection, interpretation and evaluation of such literature. __Credit Hours: 3 hrs

**CHL 587 - Children's Media Studies**

This course examines the history and recent development of children's media studies, paying particular attention to three major genres: film, television and video games. This course looks at the technologies that support these media as well as the literary, theoretical and philosophical debates by which they are informed. __Credit Hours: 3 hrs

**CHL 588 - Topics in Children's Literature**

This course focuses on a specific theme, author, genre, period or theoretical approach and allows in-depth coverage of material not possible in a survey course. __Credit Hours: 3 hrs __Repeatable: Students in the MA in Children's Literature may take this course up to two times as a part of their core program of study.

**ENGL 487 - Cooperative Education in English**

Employment for pay in a business or industry chosen to provide practical experience in the use of English skills. Work experiences generally are alternated with full-time attendance at the University. __Credit Hours: 3 hrs __Prerequisites: senior standing; admittance by application only _Notes: This is an undergraduate course available for graduate credit.

**ENGL 488 - Internship in Technical Writing**

Optional, practical on-the-job work experience for recommended students electing an opportunity provided by the department or finding an appropriate outside opportunity subsequently approved by the intern supervisor; paid or nonpaid. One hour credit for 10-15 hours per week; two hours for 16-25 hours; three hours for 26 and above. __Credit Hours: 3 hrs __Prerequisites: junior or senior standing and recommendation of technical writing professor; ENGL324 and cumulative 3.0 GPA _Notes: This is an undergraduate course available for graduate credit.

**CHL 584 - Literature for Adolescents**

An examination of literature for adolescents, emphasizing criteria for selection and evaluation, along with consideration of audience, genre and censorship. Students will be expected to read and respond critically to historical and contemporary literature written for adolescents. __Credit Hours: 3 hrs

**ENGL 489 - Internship in Technical Writing**

Optional, practical on-the-job work experience for recommended students electing an opportunity provided by the department or finding an appropriate outside opportunity subsequently approved by the intern supervisor; paid or nonpaid. One hour credit for 10-15 hours per week; two hours for 16-25 hours; three hours for 26 and above. __Credit Hours: 3 hrs __Prerequisites: junior or senior standing and recommendation of technical writing professor; ENGL324 and cumulative 3.0 GPA _Notes: This is an undergraduate course available for graduate credit.

**LITR 400 - Narrative in Literature and Film**

A study of the aesthetic parallels in narrative technique between certain prose forms (novel, novella, romance, satire) and film as a means of enhancing verbal, visual and cultural literacy. This course will comprehend films from the origin of cinema to the present, as well as a variety of literary works from multiple periods, showing how they have worked in tandem to engender social constructs and the cultural heritage. __Credit Hours: 3 hrs __Prerequisites: three 100-, 200- or 300-level LITR courses, sophomore standing. _Notes: This is an undergraduate course available for graduate credit.

**ENGL 490 - Internship in Technical Writing**

Optional, practical on-the-job work experience for recommended students electing an opportunity provided by the department or finding an appropriate outside opportunity subsequently approved by the intern supervisor; paid or nonpaid. One hour credit for 10-15 hours per week; two hours for 16-25 hours; three hours for 26 and above. __Credit Hours: 3 hrs __Prerequisites: junior or senior standing and recommendation of technical writing professor; ENGL324 and cumulative 3.0 GPA _Notes: This is an undergraduate course available for graduate credit.

**LITR 405 - Shakespeare**

A study of at least eight of the principal plays. __Credit Hours: 3 hrs __Prerequisites: ENGL300 and one 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.

**LITR 411 - Studies in Epic and Romance**

A critical reading of foreign (in translation) and English epics and romances (and their sources). The treatment will be both historical and comparative. __Credit Hours: 3 hrs __Prerequisites: ENGL300 and one 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.

**CHL 581 - Critical Approaches to Mythology**

An investigation of myths from many cultures, demonstrating individual responses to universal questions of human existence. Students will respond critically to the various theories of myth through their reading and analysis of myths as literature. __Credit Hours: 3 hrs

**LITR 431 - The Poetry of Chaucer**

An introduction to the major works of Chaucer: a close reading of representative poetry. __Credit Hours: 3 hrs __Prerequisites: ENGL300 and one 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.
LITR 440 - Genre Studies
A study of the characteristics of a particular literary genre, independent of chronology, theme or author. _Credit Hours: 3 hrs _Prerequisites: ENGL300 and one 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.

LITR 443 - Women in Literature
A study of women and their experiences as described in literature. _Credit Hours: 3 hrs _Prerequisites: ENGL300 and one 300-level LITR course _Cross-listed: This course is cross-listed WGST443 _Notes: This is an undergraduate course available for graduate credit.

LITR 450 - Major Authors
An intensive study of a major literary figure or a group of related authors. The particular author to be taught in a given semester will be announced in the class schedule bulletin. _Credit Hours: 3 hrs _Prerequisites: ENGL300 and one 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.

LITR 500 - Critical Practices in Literary Studies
This course is designed to introduce graduate students in English literature to the range of resources available for doing advanced research in literary studies. Emphasis is placed on developing critical reading skills that enable students to construct arguments within the on-going discussions currently shaping literary studies. This course is typically offered every academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 511 - Literary Criticism
A study of various approaches to literary criticism, with application to specific works.

LITR 512 - Middle English Literature
A study of the genres of Middle English literature (chronicle, dialogue, exemplum, fable, romance, sermon, etc.). This course is typically offered every third academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 520 - Old English Poetry
A study of Old English prosodic conventions, with a close reading of representative poems from various types and schools of Old English poetry. Readings are in Old English. This course is typically offered every third academic year. _Credit Hours: 3 hrs _Prerequisites: 15 hours in literature and LING506, or instructor permission. Graduate student in English

LITR 523 - Realism and Naturalism in American Literature
Realism and naturalism as theory and as practice in the late 19th and early 20th centuries in novels, drama or poetry. This course is typically offered every other academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 524 - Studies in African American Literature to 1945
Specialized study of African American literature to 1945. Parallels will be drawn between the trends in the African American literature studied and American literature as a whole. This course is typically offered every other academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 525 - Studies in African American Literature Since 1945
Specialized study of African American literature since 1945. This course is typically offered every other academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 530 - Studies in Chaucer
Intensive reading of Chaucer’s major works and supplementary reading in Chaucerian criticism. This course is typically offered once per academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 540 - Elizabethan and Jacobean Drama
Representative plays of Marlowe, Jonson, Webster and other playwrights contemporary with Shakespeare. This course is typically offered every third academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 541 - Studies in Shakespeare
Intensive reading of representative plays of Shakespeare, and of relevant critical, historical and textual scholarship. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature, including one course in Shakespeare. Graduate student in English

LITR 545 - Studies in Renaissance Literature
A specialized study of major nondramatic poetry and prose of the English Renaissance (exclusive of the works of John Milton). Specific major authors to be studied may include Shakespeare, More, Sidney, Spenser, Marlowe, Bacon, Jonson, Donne and Herbert. This course is typically offered every other academic year. _Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 551 - Studies in 18th Century Literature
A specialized study of poetry and prose of a selected number of major authors of the Restoration and 18th century. Specific authors to be studied may include Dryden, Swift, Pope, Thompson, Collins, Gray, Johnson, Goldsmith and Boswell. This course
LITR 563 - Studies in 18th Century Fiction
A specialized study of major authors, genres and themes of 18th century fiction. The fiction studied will include works by such authors as Defoe, Swift, Fielding, Richardson, Sterne, Goldsmith, Walpole and Smollett. This course is typically offered every other academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 565 - Studies in 19th Century British Fiction
Specialized study of selected English novelists of the 19th century. Novelists studied may include Austen, Scott, Disraeli, the Brontes, Gaskell, Thackeray, Dickens, Eliot, Trollope, Meredith, Hardy and others. This course is typically offered once per academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 566 - Studies in 19th Century American Fiction
Specialized study of the work of two or three major 19th century American poets, such as Whitman, Dickinson, Poe, Longfellow, Melville, Emerson, Bryant, Lowell and Lanier. This course is typically offered every other academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 567 - Studies in 20th Century Irish Literature
Specialized study in prose, poetry and drama of 20th century Irish literature, with attention to such major figures as Yeats, Shaw, Joyce, Synge, O’Casey, O’Faolain, Beckett and Kavanagh. This course is typically offered every third academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 568 - Studies in 19th Century American Poetry
Specialized study of the work of two or three major 19th century American poets, such as Whitman, Dickinson, Poe, Longfellow, Melville, Emerson, Bryant, Lowell and Lanier. This course is typically offered every other academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 569 - The American Renaissance: 1830-1860
Specialized study of the work of three or four of the following writers: Cooper, Poe, Emerson, Thoreau, Hawthorne, Melville. This course is typically offered every other academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 570 - Studies in Romantic Literature
An intensive study of the poetry and nonfictional prose of at least two of the poets and essayists from the Romantic period (e.g., Blake, Wordsworth, Coleridge, Keats, Byron, Shelley, Hazlitt, DeQuincey, Lamb). __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 571 - Studies in Victorian Literature
An intensive study of the poetry and nonfictional prose of at least two of the major writers from the Victorian period (e.g., Carlyle, Tennyson, the Brownings, Arnold, the Rossettis, Swinburne, Newman, Mill, Ruskin, Pater). This course is typically offered every other academic year. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 572 - Special Topics
Topics will be announced from time to time. The following are examples of topics offered in recent years: Caribbean literature, short story, literature of the civil rights movement, postmodern theory. Not more than six hours of special topics courses may be applied toward the degree. __Credit Hours: 1 hr __Prerequisites: 15 credit hours in literature; further prerequisites may be required for some topics. Graduate student in English

LITR 573 - Special Topics
Topics will be announced from time to time. The following are examples of topics offered in recent years: Caribbean literature, short story, literature of the civil rights movement, postmodern theory. Not more than six hours of special topics courses may be applied toward the degree. __Credit Hours: 2 hrs __Prerequisites: 15 credit hours in literature; further prerequisites may be required for some topics. Graduate student in English

LITR 574 - Special Topics
Topics will be announced from time to time. The following are examples of topics offered in recent years: Caribbean literature, short story, literature of the civil rights movement, postmodern theory. Not more than six hours of special topics courses may be applied toward the degree. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English

LITR 575 - Special Topics
Topics will be announced from time to time. The following are examples of topics offered in recent years: Caribbean literature, short story, literature of the civil rights movement, postmodern theory. Not more than six hours of special topics courses may be applied toward the degree. __Credit Hours: 3 hrs __Prerequisites: 15 credit hours in literature. Graduate student in English
Topics will be announced from time to time. The following are examples of topics offered in recent years: Caribbean literature, short story, literature of the civil rights movement, postmodern theory. Not more than six hours of special topics courses may be applied toward the degree. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

LITR 680 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

LITR 681 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LITR 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not to be elected until a student has been accepted as a candidate for the master’s degree in literature. __Credit Hours: 1 hr _Prerequisites: 15 credit hours in literature and permission of the graduate committee; graduate student in English or department permission

LITR 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not to be elected until a student has been accepted as a candidate for the master’s degree in literature. __Credit Hours: 2 hrs _Prerequisites: 15 credit hours in literature and permission of the graduate committee; graduate student in English or department permission

LITR 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not to be elected until a student has been accepted as a candidate for the master’s degree in literature. __Credit Hours: 3 hrs _Prerequisites: 15 credit hours in literature and permission of the graduate committee; graduate student in English or department permission

Clinical Research Administration

CLRA 510 - Introduction to Drug Development
Introduction to the pharmaceutical industry and the process of drug development. Drug development phases 1-4 are discussed. Regulatory requirements of the Food and Drug Administration are reviewed along with the content of the investigational new drug application (IND), the new drug application (NDA) and the marketing authorization application (international). The roles of investigator, coordinator, sponsor and monitor are discussed. Exposure to the skills necessary to function as a successful study monitor is given. __Credit Hours: 3 hrs

CLRA 520 - Clinical Study Administration I
Provides an overview of the development, content and process of the clinical research study. Topics include protocols, case report forms, investigator brochures, informed consent, institutional review boards and Statement of Investigator Form 1572. __Credit Hours: 3 hrs _Prerequisites: CLRA510 or permission of the instructor

CLRA 530 - Clinical Study Administration II
Course builds on the content of CLRA520 and expands upon the processes involved in study management. Topics include source document verification, visit types, drug accountability, adverse events, laboratory and supplies. __Credit Hours: 3 hrs _Prerequisites: CLRA520 or permission of the instructor

CLRA 540 - Advanced Topics in Clinical Study Management
Capstone experience utilizes the background material presented in CLRA510/530 to integrate all of the components of a clinical research program and how they relate to the completed submission of a document to the U.S. Food and Drug Administration. __Credit Hours: 3 hrs _Prerequisites: CLRA530 or permission of the instructor
CLRA 550 - Preceptorship in Drug Development
The preceptorship is a three-month-long, full-time experience which occurs both in a clinical setting (one month) and a clinical research organization setting (two months). Students interact with clinical research associates, clinical research coordinators and clinical scientists in a workplace setting to develop and polish clinical research coordinating and monitoring skills. __Credit Hours: 3 hrs __Prerequisites: completion of CLRA510, CLRA520, CLRA530 and CLRA540, with 3.0 grade point average

CLRA 561 - Legal Issues in Drug Development
This course will prepare clinical research administrators and others who may be involved in the drug development process in the fundamentals of the patent process and the function of the governmental agencies which supervise the process. Other issues which relate to technology transfer and licensing will also be discussed. __Credit Hours: 2 hrs __Prerequisites: CLRA510

CLRA 571 - Grant and Contract Management for Research Project Administrators
This course will prepare future clinical research administrators and others involved in research administration, in the fundamentals of pre- and post-award management of research projects. Emphasis is given to understanding the terms and conditions of contracts and grant award documents, and to management issues involved in forming and managing subcontractual relationships. __Credit Hours: 3 hrs

CLRA 581 - Regulatory Affairs in Drug Development I
The course will give an overview of the prescription drug development process and serves as an introduction to other courses relating to pharmaceutical regulatory affairs. It focuses on the process and business of drug development, presenting main themes and concepts. __Credit Hours: 3 hrs

CLRA 582 - Regulatory Affairs in Drug Development II
This course presents an overview of the regulatory requirements for submission and review of a new drug. Additional discussions concern how this process differs in the US, Europe and Japan. __Credit Hours: 3 hrs __Prerequisites: CLRA581

CLRA 583 - Regulatory Affairs in Drug Development III
This course focuses on the business environment, pricing and postmarking review of the prescription drug and nutritional supplement development process and lifecycle. It presents the perspectives of the regulatory agency, the sponsor and the public as it relates to pharmaceutical cost and safety. __Credit Hours: 3 hrs __Prerequisites: CLRA581 and CLRA582

CLRA 590 - Special Topics
Advanced-level courses covering specific topics in associated health professions. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

CLRA 591 - Special Topics
Advanced-level courses covering specific topics in associated health professions. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

CLRA 592 - Special Topics
Advanced-level courses covering specific topics in associated health professions. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

CLRA 597 - Independent Study
Independent original endeavors under the guidance of an associated health professions faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

CLRA 598 - Independent Study
Independent original endeavors under the guidance of an associated health professions faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

CLRA 599 - Independent Study
Independent original endeavors under the guidance of an associated health professions faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

CLRA 601 - Graduate Seminar in Drug Development
Presentation of special reports and group discussions of selected topics in clinical research. __Credit Hours: 1 hr __Prerequisites: graduate status or permission of instructor for senior undergraduates

CLRA 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis

CLRA 690 - Thesis
Intensive research into a problem under the guidance and supervision of a graduate faculty member of the clinical research administration program, and the preparation of a thesis consistent, in substance and form with the standards of the discipline. __Credit Hours: 1 hr __Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis

CLRA 691 - Thesis
Intensive research into a problem under the
CLRA 692 - Thesis
Intensive research into a problem under the guidance and supervision of a graduate faculty member of the clinical research administration program, and the preparation of a thesis consistent, in substance and form with the standards of the discipline. __Credit Hours: 3 hrs _Prerequisites: department permission

CLRA 695 - Special Project in Clinical Research Administration
Conduct of an individualized special project under the guidance and supervision of the program coordinator. The student will prepare a research paper and present the results in a formal seminar to the faculty and students in the clinical research administration program. __Credit Hours: 3 hrs _Prerequisites: CLRA530 or instructor permission _When Offered: Offered on a credit/no-credit basis.

Clinical Laboratory Science

CLSC 401 - Laboratory Management/Education
Basic management skills for laboratory personnel and laboratory. Personnel practices, equipment and reagent purchase, and laboratory information systems including computer applications, laboratory statistics and evaluation of methods are covered in this lecture course. __Credit Hours: 3 hrs _Prerequisites: CLSC200 and MATH170 or equivalent _Notes: This is an undergraduate course available for graduate credit.

CLSC 501 - Fundamentals of Epidemiology
Lecture and discussion course of epidemiological measurements, applications, study design, disease risk assessment and interpretation. Epidemiology is the basic science of disease prevention and plays a major role in the development and evaluation of public policy. Risk factors for disease mechanisms involved in pathogenesis will be discussed. __Credit Hours: 3 hrs _Prerequisites: Math105 or equivalent; MATH170 or SOCL250 or waiver

CLSC 590 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: permission of instructor

CLSC 591 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: permission of instructor

CLSC 592 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: permission of instructor

CLSC 597 - Independent Study
Independent original endeavors involving library and/or laboratory work under the guidance of a clinical laboratory sciences program faculty member. __Credit Hours: 1 hr _Prerequisites: permission of instructor

CLSC 598 - Independent Study
Independent original endeavors involving library and/or laboratory work under the guidance of a clinical laboratory sciences program faculty member. __Credit Hours: 2 hrs _Prerequisites: permission of instructor

CLSC 599 - Independent Study
Independent original endeavors involving library and/or laboratory work under the guidance of a clinical laboratory sciences program faculty member. __Credit Hours: 3 hrs _Prerequisites: permission of instructor

CLSC 639 - Continuous Enrollment
Graduate students who are completing research (master's or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CLSC 679 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: permission of instructor

CLSC 680 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: permission of instructor

CLSC 681 - Special Topics
Advanced-level courses covering specific topics in clinical laboratory sciences. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: permission of instructor

CLSC 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

CLSC 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission
CLSC 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

Communication Technology

CMT 404 - Photo Communication Workshop
Selected topics in photo communications, such as commercial and industrial photography, photo journalism, sensitometry and photography, and photo processing. The class schedule describes the specific topic being offered during a given semester. __Credit Hours: 3 hrs __Prerequisites: CMT304 __Notes: This is an undergraduate course available for graduate credit.

CMT 409 - Emerging Technologies in Storage and Retrieval
Conventional as well as emerging technologies of information storage and retrieval. Lecture and laboratory. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

CMT 425 - Communication Technology and Social Change
The social implications of recent and future developments in communication technology. The effects upon education, research and scientific knowledge, business and entertainment. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

CMT 436 - Electronic Publishing Technology
The application of electronic design and layout principles to publication and presentation documents. Develop skills in graphics, type, file creation and manipulation, word processing interface, and output of paginated, camera-ready copy through several software packages. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

CMT 477 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 1 hr __Prerequisites: department permission __Notes: This is an undergraduate course available for graduate credit.

CMT 478 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 2 hrs __Prerequisites: department permission __Notes: This is an undergraduate course available for graduate credit.

CMT 479 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 3 hrs __Prerequisites: department permission __Notes: This is an undergraduate course available for graduate credit.

CMT 578 - Co-operative Education
Credit Hours: 3 hrs

CMT 587 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

CMT 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

CMT 591 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: graduate standing or department permission

CMT 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate standing or department permission

CMT 593 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs __Prerequisites: graduate standing or department permission

CMT 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

CMT 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

CMT 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

CMT 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: graduate standing or department permission

CMT 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

CMT 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

CMT 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

CMT 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

CMT 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis.

CMT 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

CMT 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

CMT 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

CMT 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

CMT 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

CMT 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

CMT 597 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 1 hr _Prerequisites: department permission

HRM 450 - Meetings and Events Management
Overview of meeting planning, and events management with emphasis on defining the management of events. Discussion of components of various types of events, negotiating contracts, facilities, costing, support services and legal issues will be covered. Students will be required to assist with several events planned during the semester. __Credit Hours: 3 hrs _Prerequisites: HRM180, HRM21, and senior standing _Notes: This is an undergraduate course available for graduate credit.

Construction Management

CNST 501 - Project Estimating
An investigation into the estimating and bidding practices used within the construction industry in order to prepare, analyze and submit an estimate of the costs for a project. __Credit Hours: 2 hrs _Prerequisites: CNST304 or equivalent

CNST 502 - Project Scheduling
An investigation into advanced scheduling techniques and the application of these within the construction industry. __Credit Hours: 2 hrs _Prerequisites: CNST361 and CNST304, or equivalents

CNST 503 - Construction Delays and Claims
An investigation into the risks, liabilities and responsibilities involved in today's construction industry. The areas of liability, contract interpretation, changes, changed conditions, delays, damages, documentation and dispute resolution are addressed. __Credit Hours: 2 hrs _Prerequisites: CNST406 or equivalent

CNST 594 - Project Estimating
An investigation of the typical problems associated with construction projects and applicable management practices for solving managerial problems. __Credit Hours: 2 hrs

CNST 595 - Project Scheduling
An investigation of the typical problems associated with construction projects and applicable management practices for solving managerial problems. __Credit Hours: 2 hrs

CNST 596 - Construction Delays and Claims
An investigation of the typical problems associated with construction projects and applicable management practices for solving managerial problems. __Credit Hours: 2 hrs

CNST 504 - Project Management
An investigation of the typical problems associated with construction projects and applicable management practices for solving managerial problems. __Credit Hours: 2 hrs
CNST 598 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 2 hrs __Prerequisites: department permission

CNST 599 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 3 hrs __Prerequisites: department permission

CNST 616 - Analysis of Commercial Structures
An investigation into the construction industry practices associated with the use of working drawings to analyze project requirements for bidding, planning, scheduling and controlling construction projects. __Credit Hours: 3 hrs __Prerequisites: CNST361 and CNST304, or equivalents

CNST 624 - Project Productivity and Cost Control
An investigation into the contemporary problems related to construction productivity, and methods to be employed to control construction costs. __Credit Hours: 3 hrs __Prerequisites: CNST403 or equivalent

CNST 626 - Construction Processes
An investigation of the accepted and standard practices associated with the construction process. __Credit Hours: 2 hrs

CNST 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

CNST 645 - Occupational Safety and Health
An exploration of occupational safety and health from a human behavior perspective. Attention will be given to the development of safety management systems. Legislative safety and health policies will be analyzed to determine their effectiveness. __Credit Hours: 2 hrs

CNST 648 - Principles of Construction Technology
A study of the production system of the construction industries, utility systems, housing construction and city and regional planning practices. __Credit Hours: 2 hrs

CNST 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

CNST 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

CNST 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

CNST 682 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CNST 683 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CNST 684 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CNST 685 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CNST 689 - Industrial Internship
A field study of industrial theory and practice through internship experiences with cooperating industries. Designed for students desiring experiences beyond those obtained in their previous or present employment. __Credit Hours: 2 hrs __When Offered: Offered on a credit/no-credit basis.
CNST 690 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 1 hr __Prerequisites: department permission and 12 hours in one’s graduate concentration

CNST 691 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 2 hrs __Prerequisites: department permission and 12 hours in one’s graduate concentration

CNST 692 - Development Project/Thesis
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 3 hrs __Prerequisites: department permission and 12 hours in one’s graduate concentration

CNST 693 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 1 hr __Prerequisites: department permission

CNST 694 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 2 hrs __Prerequisites: department permission

CNST 695 - Seminar
A research-oriented course for graduate majors. __Credit Hours: 3 hrs __Prerequisites: department permission

CNST 697 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 1 hr __Prerequisites: department permission

CNST 698 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 2 hrs __Prerequisites: department permission

CNST 699 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "independent study" and "research proposal format" guideline sheets are available from the department. __Credit Hours: 3 hrs __Prerequisites: department permission

College of Business

COB 200 - Introduction to Business
This course is designed to provide students with an understanding of the business professions, knowledge of business disciplines and to begin assessment and development of skills important for effectiveness in business as an individual and a member of a work team. At the end of this course, students will have developed an understanding of how the different business disciplines operate and are interrelated. Students will have developed a career objective and have had an opportunity to learn, practice and develop interpersonal communication, and group and personal effectiveness skills. Both students who have decided on a major within the College of Business and those who are undecided about their major are welcome in this course. __Credit Hours: 3 hrs

COB 590 - Special Topics
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

COB 591 - Special Topics
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

COB 592 - Special Topics
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

COB 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

COB 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

COB 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

COB 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission
**COB 679 - Special Topics**
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__Prerequisites: department permission

**COB 680 - Special Topics**
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr__Prerequisites: department permission

**COB 681 - Special Topics**
Course covers selected topics from the field of business. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs__Prerequisites: department permission

**COB 695 - Seminar**
A study of selected business issues and methods. Specific topics will vary from semester to semester. __Credit Hours: 3 hrs__Prerequisites: department permission

**COB 697 - Independent Study**
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr__Prerequisites: department permission

**COB 698 - Independent Study**
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs__Prerequisites: department permission

**COSC 342 - Programming Languages for Educators**
Formal definition of programming languages; structure of simple statements; global properties of algorithmic languages; structure of list processing, string manipulation, data description and simulation languages; runtime representation of program and data structures. Special emphasis will be placed on education-oriented languages. __Credit Hours: 3 hrs__Prerequisites: COSC211 and COSC221__Notes: Credit will not be given for both COSC341 and COSC342

**COSC 403 - Seminar and Project Design for Educators**
Major project design and more formalized, structured programming. Each student will work on two original major programs, one of which will be a group project. The student will report on both projects (written and oral) and give a formal presentation of the individual project to the University community in the form of a public lecture. __Credit Hours: 3 hrs__Prerequisites: COSC311, COSC342 and senior standing__Notes: This is an undergraduate course available for graduate credit.

**COSC 405 - Switching Theory**
Switching algebra, gate network and sequential circuit analysis and synthesis. Boolean algebra, sequential circuit state and combinational circuit minimization, hazards and races, elementary number systems and codes. __Credit Hours: 3 hrs__Prerequisites: COSC211 and COSC221; open to juniors and seniors only__Notes: This is an undergraduate course available for graduate credit.

**COSC 421 - Systems Programming**
Batch-process systems programs, components and operating characteristics. Implementation techniques for parallel processing and interrupt handling. Overall structure of multiprogramming systems. Addressing techniques, file system design
and management. Interprocess communication, design of system modules and interfaces. __Credit Hours: 3 hrs __Prerequisites: COSC221, COSC311 and COSC341 __Notes: This is an undergraduate course available for graduate credit.

COSC 422 - Introduction to Microprocessors
The fundamentals of small-system software development as it applies to microprocessors and minicomputers. Introduction to microprocessors and peripheral hardware; software and software development; applications. Students will have access to both microcomputers and a minicomputer to gain first-hand knowledge of this field. __Credit Hours: 3 hrs __Prerequisites: COSC221 or department permission __Notes: This is an undergraduate course available for graduate credit.

COSC 423 - Computer Operating Systems
Computer operating systems functions and concepts. Processor allocation: multiprogramming and scheduling algorithms. Memory tasks and data management. The deadlock problem. Virtual memory, allocation strategies and analysis of their algorithms. Design, implementation and protection of I/O files. Survey of available computer operating systems. __Credit Hours: 3 hrs __Prerequisites: COSC221 and COSC311 __Notes: This is an undergraduate course available for graduate credit.

COSC 436 - Web Programming
Students will learn how to set up and configure a web server and associated services. Topics covered will include: CGI, JavaScript, Web security tools, server-side programming, multiforms, applets, data description languages, database connectivity, scripting languages and distributed applications. Exposure to security and efficiency issues. __Credit Hours: 3 hrs __Prerequisites: COSC231, COSC311 and COSC341 __Notes: This is an undergraduate course available for graduate credit.

COSC 439 - Computing Network Principles
The basic concepts of computer communication systems with particular emphasis on communication hardware and microcomputer networks. Students will be involved in the development and writing of software components of communications such as terminal emulators and file transfer packages. Basic communication theory and terminology. Communication hardware devices, communication protocols and microcomputer networks. __Credit Hours: 3 hrs __Prerequisites: COSC221 and COSC311; COSC314 recommended __Notes: This is an undergraduate course available for graduate credit.

COSC 444 - Foundations of Automata and Languages
A review of finite automata. A rigorous treatment of regular languages including closure properties and the Pumping Lemma. An investigation of context-free languages, context-free grammars, simplification of grammars, normal forms and related topics. Turing machines and the Halting Problem. Applications to lexical analysis. __Credit Hours: 3 hrs __Prerequisites: COSC311 and COSC314 __Notes: This is an undergraduate course available for graduate credit.

COSC 445 - Compiler Construction
Review of programming language structures, translation, loading, execution and storage allocation. Compilation of simple statements. Organization and overall design of a compiler. Use of compiler writing languages. __Credit Hours: 3 hrs __Prerequisites: COSC341 and COSC444 __Notes: This is an undergraduate course available for graduate credit.

COSC 456 - Microcomputer Graphics
A course in computer graphics using microcomputers. Display technologies. Raster graphics, displaying graphics primitives such as points, lines, curves, text and scan-conversion algorithms. Displaying graphs, functions, bar and pie charts, and applications. 2-D graphics including windowing, viewporting, window-to-viewport transformation, clipping algorithms, scaling, rotation and translation transformations. Interactive graphics. 3-D graphics; including scaling, rotation and translation transformations; parallel and perspective projections. __Credit Hours: 3 hrs __Prerequisites: COSC311 and MATH122, minimum ACT score of 28, minimum SAT score of 670 or math placement test in elementary algebra greater than or equal to 93 __Notes: This is an undergraduate course available for graduate credit.

COSC 461 - Heuristic Programming
Programming techniques for problems with large-state spaces or uncertain knowledge: searches, heuristic evaluation, rule-based inference, approximate reasoning and adaptation using neural nets, genetic algorithms and reinforcement learning. __Credit Hours: 3 hrs __Prerequisites: COSC444 __Notes: This is an undergraduate course available for graduate credit.

COSC 471 - Database Principles
A technical review of the theory and principles of database design and organization. The concepts and structures necessary to design and implement a database management system. Network, hierarchical and relational database models. Data normalization, data description languages, query languages, data integrity and security. __Credit Hours: 3 hrs __Prerequisites: COSC444 and COSC341 __Notes: This is an undergraduate course available for graduate credit.

COSC 481 - Software Engineering and Senior Project
This capstone course surveys the fundamentals of software engineering, including requirements analysis, design, disciplined implementation and evaluation. Students will work on a semester-long software project that employs principles learned in other computer science classes. __Credit Hours: 3 hrs __Prerequisites: COSC311 and department permission __Notes: This is an undergraduate course available for graduate credit.

COSC 506 - Methods of Teaching Computer Science in the Secondary School
This course encompasses information and
COSC 511 - Design and Analysis of Algorithms

Complexity measures of algorithms; searching, sorting, string matching and graph algorithms; design and analysis of greedy algorithms, backtracking, divide and conquer approach, dynamic programming; NP-complete and NP-hard problems are studied. __Credit Hours: 3 hrs _Prerequisites: ADM or COSC314, COSC311 and MATH121

COSC 513 - Formal Methods in Software Development

Principles of logical reasoning and their application to the development of reliable software, propositional and predicate logic, mathematical induction, semantics of control and data structures are studied. Examples are drawn from various applications areas. Emphasis is on the use of formal methods as practical tools that aid in software development. __Credit Hours: 3 hrs _Prerequisites: ADM or COSC314, COSC311, and MATH121

COSC 515 - Fundamentals of Computer Science II

An accelerated treatment of topics from COSC221 Computer Organization I and COSC321 Computer Organization II. Topics include: machine language and arithmetic; assembly language programming; implementation of high-level run time structures; structure of assemblers, loaders and command interpreters. Logic design and computer architecture. No credit for COSC221, COSC321 or their equivalent. __Credit Hours: 4 hrs _Prerequisites: COSC514 or department permission

COSC 522 - Computer Communication Networks and Distributed Systems

A study of networks of interacting computers. Topics covered: principles of data communication; major national and international protocols; models for network design and analysis; local and long-haul networks; distributed processing, distributed databases and distributed operating systems. A laboratory project involving a network of microcomputer systems is included. __Credit Hours: 3 hrs _Prerequisites: ADM or COSC314, COSC311, and COSC321

COSC 523 - Advanced Computer Organization

Processor design, fixed and floating point arithmetic processing and nonarithmetic processing are studied. Topics covered: control design and microprogramming; memory organization and input-output; system organization. Case studies will be drawn from computer systems designed to make special types of processing more efficient: stack computers, pipelined processors and vector computer multiprocessing. __Credit Hours: 3 hrs _Prerequisites: ADM or both COSC311 and COSC321

COSC 527 - Wireless Networking Principles

This course involves the study of wireless communication technologies and standards. Communication issues such as frequency reuse, signal coding, error control coding and spread spectrum technology as well as technologies including cellular telephony, personal communications systems and wireless local area networks and international wireless standards will be discussed. __Credit Hours: 3 hrs _Prerequisites: MATH120 and COSC439 or COSC522

COSC 541 - Automata, Computability and Formal Languages

A survey of the principal mathematical models of computation and formal languages. Finite automata, regular languages and sets, the Chomsky hierarchy, context-free languages, computability and undecidable problems, computational complexity and NP-completeness are studied. __Credit Hours: 3 hrs _Prerequisites: ADM or COSC314 and COSC311

COSC 544 - Programming in LISP

Introduction to the LISP language with emphasis on artificial intelligence applications. Pure LISP, built-in and user-defined functions, PROG feature, MAP-functionals and property lists. __Credit Hours: 1 hr _Prerequisites: ADM or COSC311 or COSC514

COSC 545 - Programming in Prolog

An introduction to one of the most widely used languages of artificial intelligence. Topics include Prolog’s inference procedure, assertions of facts and rules, recursion, list structures, functors, the cut, numerical operations and principles of good Prolog style. __Credit Hours: 1 hr _Prerequisites: ADM or COSC311 or COSC514

COSC 552 - Human-Computer Interaction

Methods for modeling, designing, implementing and evaluating dialogues between people and computer systems, taking into account modern interface technologies, human limitations and trade-offs between competing design objectives. __Credit Hours: 3 hrs _Prerequisites: ADP or COSC444 or COSC541
COSC 561 - Artificial Intelligence
This course introduces the student to basic concepts and techniques of artificial intelligence. Topics covered: strategies for choosing representations, notational systems and structures; search strategies; control issues; examples of current systems in natural language processing, pattern recognition, problem-solving, learning and information retrieval. Students with no prior knowledge of LISP should take COSC544 concurrently. _Credit Hours: 3 hrs _Prerequisites: ADM or COSC311, MATH120, and MATH122

COSC 562 - Information Retrieval and Recommendation
Explores the fields of information retrieval and recommendation. Searching for and recommending relevant information to a user. Topics include set-theoretic, algebraic and probabilistic models common to both fields, evaluation of retrieval and recommendation techniques, queries, indexing and issues related to format (text, multimedia, etc.). _Credit Hours: 3 hrs _Prerequisites: COSC314, COSC311 and MATH370 or MATH360

COSC 567 - Bioinformatics
An introduction to tools for programming and data management commonly used in bioinformatics. Topics include Perl programming, bioinformatics programming libraries for Perl and Java, Web and data markup languages and database technology (database design and queries). _Credit Hours: 3 hrs _Prerequisites: COSC514 or COSC311

COSC 581 - Software Design and Development
Software engineering techniques for the organization, management and development of a large software project are studied, including specification, structured design, segmentation and documentation. _Credit Hours: 3 hrs _Prerequisites: ADP or COSC341 and either COSC444 or COSC541

COSC 582 - Object-Oriented Design
This course covers the analysis and design aspects of a software development process from an object-oriented perspective. The Unified Software Development Process along with the Unified Modeling Language (UML) will be used for modeling software systems. Requirements gathering and planning activities will be dealt with only from a modeling perspective. _Credit Hours: 3 hrs _Prerequisites: COSC481 or COSC581

COSC 590 - Special Topics
A graduate-level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 591 - Special Topics
A graduate-level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 592 - Special Topics
A graduate-level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 597 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. _Credit Hours: 1 hr _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 598 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. _Credit Hours: 2 hrs _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 599 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. _Credit Hours: 3 hrs _Prerequisites: Six hours of graduate computer science courses and department permission

COSC 612 - Parallel Algorithms
A course in design and analysis of algorithms for parallel programming. Sorting, searching, matrix multiplication, graph theory and other fundamental areas of computation are considered for parallel program design. _Credit Hours: 3 hrs _Prerequisites: COSC511
COSC 616 - Algorithms in Bioinformatics
Coverage of fundamental algorithmic techniques used to solve problems in bioinformatics, relating to DNA sequences, microarrays and evolutionary computations. Also, covers intractability of biological problems, and techniques to deal with intractability. __Credit Hours: 3 hrs _Prerequisites: COSC511, COSC513, COSC541 or COSC576

COSC 623 - Advanced Operating Systems
Selected topics from areas such as concurrent processing, memory management, resource allocation and scheduling, multiprocessing and multiprogramming, protection, performance evaluation and modeling will be covered in depth. __Credit Hours: 3 hrs _Prerequisites: UGM or COSC314 and COSC423

COSC 625 - Real Time Processing
An introduction to the problems, concepts and techniques involved in computer systems that must interface with external devices; computer characteristics needed for real time use, operating system considerations, analog signal processing and conversion, and intercomputer communication. Students will be involved in several laboratory projects involving a mini- or microcomputer system. __Credit Hours: 3 hrs _Prerequisites: UGM or COSC423 and either COSC422 or COSC523

COSC 631 - eCommerce and Web Database Infrastructure
This course involves the study of the technical details necessary for building electronic commerce systems and web databases. Such technical details include the operating system, Web and database servers, client/server communications, security issues, audit trails, payment systems and modern Web application programming languages. __Credit Hours: 3 hrs _Prerequisites: COSC436 or COSC439 or COSC471 or COSC522 or COSC571

COSC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

COSC 645 - Advanced Compiler Construction
An introduction to the major methods of compiler implementation. These include: lexical analysis, LL and LR parsing, semantic analysis and code generation, error detection and recovery, and code optimization. Compiler engineering techniques including portability, validation and the use of automated compiler-writing tools are also studied. Course project will involve implementation of a compiler. __Credit Hours: 3 hrs _Prerequisites: COSC445 and COSC541

COSC 653 - Software Requirements Engineering
This course teaches the student how to determine clients’ software needs, formally specify operations and data, quantitatively assess risks involved in a software project, estimate resources necessary to create software, coordinate a requirements team, measure and evaluate requirements documents, and investigate current research issues in this field. __Credit Hours: 3 hrs _Prerequisites: COSC481 or COSC581

COSC 661 - Automated Reasoning
A theoretical and practical survey of different reasoning techniques, both classical and nonclassical, and methods for implementing them as computer programs. Topics will include resolution proofs, fuzzy logic, nonmonotonic reasoning, default reasoning and uncertainty measures. Applications will include expert systems. __Credit Hours: 3 hrs _Prerequisites: COSC561 or COSC461

COSC 662 - Seminar
A graduate-level seminar in specialized concentration areas. __Credit Hours: 1 hr _Prerequisites: eight hours of graduate computer science courses and department permission

COSC 663 - Fuzzy Logic and Design of Fuzzy Systems
An applied and theoretical treatment of fuzzy logic concepts. Discrete and continuous representations of fuzzy sets and fuzzy operations. Types of fuzzy reasoning, their computational and logic consistency, and stability in fuzzy systems. Design of fuzzy systems in a variety of case studies such as controllers, traffic simulations, pattern recognition. __Credit Hours: 3 hrs _Prerequisites: COSC511 or COSC513 or COSC541

COSC 667 - Machine Learning and Data Mining
Introduction to the theory and practice of automated data discovery and inference over large data sets. Students will implement various automated learning algorithms and learn the impact of inductive bias, overfitting and data representation on these algorithms. Applications covered include information retrieval, genetic sequencing and Web based mining. __Credit Hours: 3 hrs _Prerequisites: MATH120, MATH360 and COSC471 or COSC561 or department permission

COSC 671 - Advanced Topics in DBMS
Advanced topics in database principles. Higher normalizations, query optimization, triggers and active databases, transaction control, object-oriented database model, issues in distributed and parallel database, multidimensional indexing, inexact indexing. __Credit Hours: 3 hrs _Prerequisites: COSC471 or COSC571

COSC 679 - Special Topics
A graduate level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. __Credit Hours: 1 hr _Prerequisites: 12 hours of graduate computer science courses and department permission
COSC 680 - Special Topics
A graduate level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. __Credit Hours: 2 hrs _Prerequisites: 12 hours of graduate computer science courses and department permission

COSC 681 - Special Topics
A graduate level course in a specific area of computer science to be determined by the field of specialization of the instructor and the interest of the students. __Credit Hours: 2 hrs _Prerequisites: 18 hours of graduate computer science courses and department permission

COSC 683 - Software Engineering Practicum
Working in a software project team, students will develop a large software system, carrying the project through from requirements analysis to acceptance testing. Teams will analyze "live" problems, that is, projects selected for their functionality to the user(s) involved. This is a laboratory course with formal class meetings only for the distribution of projects. __Credit Hours: 3 hrs _Prerequisites: 18 hours of graduate computer science courses and department permission

COSC 685 - Software Quality Assurance
This course covers various techniques for assessing the quality of software. Topics include types of testing techniques, inspection and technical review, complexity measures and test planning, design and execution. An introduction to one or more software testing automation tools will also be covered. __Credit Hours: 3 hrs _Prerequisites: COSC481 or COSC581

COSC 689 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. __Credit Hours: 1 hr _Prerequisites: 12 hours of graduate computer science courses and department permission

COSC 691 - Thesis
Intensive research into a computer science problem and the preparation of a report consistent in substance and form with the standards of the discipline. __Credit Hours: 2 hrs _Prerequisites: 18 hours of graduate computer science courses and department permission

COSC 692 - Thesis
Intensive research into a computer science problem and the preparation of a report consistent in substance and form with the standards of the discipline. __Credit Hours: 3 hrs _Prerequisites: 18 hours of graduate computer science courses and department permission

COSC 697 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. __Credit Hours: 2 hrs _Prerequisites: 12 hours of graduate computer science courses and department permission

COSC 698 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. __Credit Hours: 3 hrs _Prerequisites: 12 hours of graduate computer science courses and department permission

COSC 699 - Independent Study
An intensive study of a problem or implementation of a project under the direction of a member of the computer science faculty. __Credit Hours: 3 hrs _Prerequisites: 12 hours of graduate computer science courses and department permission

IS 215 - End-User Computing
Computers are being used more extensively by managers and professionals. This revolution is known by the name “End-User Computing” or EUC. Students learn traditional information systems, and business problem-solving. In addition, a wide-range of applications including decision support systems, executive information systems, Non-clerical Office Automation, Data Communications, and local area networks, are covered. These applications cover all the functional areas of businesses. Course work includes conceptual material as well as laboratory material. __Credit Hours: 3 hrs

MATH 416 - Linear Algebra
Theoretical aspects of linear algebra: vector spaces, linear transformations and matrices, systems of linear equations, diagonalization, inner product spaces. __Credit Hours: 3 hrs _Prerequisites: MATH122/211 _Notes: This is an undergraduate course available for graduate credit.

MATH 420 - Introduction to Real Analysis
A rigorous introduction to the foundations of calculus: real numbers, elementary topology of the real line, sequences and series, limits, continuity, uniform continuity, introduction to differentiation. __Credit Hours: 3 hrs _Prerequisites: MATH211 _Cross-listed: This course is cross-listed with WGST413

College of Technology

COT 586 - Internship in Technology
Credit Hours: 1 hr

COT 587 - Internship in Technology
Credit Hours: 2 hrs

COT 588 - Internship in Technology
Credit Hours: 3 hrs

COT 589 - Internship in Technology
Credit Hours: 4 hrs
COT 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

COT 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

COT 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs

COT 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

COT 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

COT 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

COT 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

COT 671 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

COT 672 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

COT 673 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs

COT 677 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

COT 678 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

COT 679 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

COT 686 - Internship in Technology
Credit Hours: 1 hr _Prerequisites: department permission

COT 687 - Internship in Technology
Credit Hours: 2 hrs _Prerequisites: department permission

COT 688 - Internship in Technology
Credit Hours: 3 hrs _Prerequisites: department permission

COT 689 - Internship in Technology
Credit Hours: 4 hrs _Prerequisites: department permission

COT 700 - Introduction to the Interdisciplinary Study of Technology
This course serves as an introduction to the interdisciplinary study of technology by acquainting students with science, technology and society (STS) studies, and with technology philosophies and theoretical paradigms such as social constructivism, scientific rationalism, technological determinism, appropriate technology, technology ethics and socio-technological systems theory. Students will apply these theoretical and analytical concepts to the study of technological systems. __Credit Hours: 3 hrs _When Offered: Offered only to Ph.D. in technology students.

COT 701 - Technology Trends and Issues
This course exposes students to cutting-edge technological trends and issues in a variety of scientific and industrial fields through reading and guest lectures by campus experts. Students will have an opportunity to conduct in-depth examinations of selected topics presented, and may use this research as an opportunity to identify or refine potential dissertation topics by linking them to the most current research in a given field of
COT 702 - Planning for Technological Change

In this course, the need for technology planning is conveyed, as it applies to organizations and society. At the organizational level, principles of strategic planning are reviewed, the business strategies of well-known companies are studied and a case is made for the needed linkage between strategic business planning and technology planning. In this course, students are introduced generally to the technology "life cycle" concept, and the importance of planning to effective technology utilization. __Credit Hours: 3 hrs __Concurrent Prerequisite: _COT700 _When Offered: Offered only to Ph.D. in technology students.

COT 704 - Legal and Policy Aspects of New Technologies

This course examines the legal and policy issues raised by new technologies, nationally and globally. These issues include, but are not limited to, information privacy, biotechnology, technology transfer, executive responsibility, intellectual property, software protection and national and international technology policy development processes. The course utilizes a seminar format, which includes case study analysis and examination of information on the World Wide Web. Offered only to Ph.D. in technology students. __Credit Hours: 3 hrs

COT 705 - Technology Design, Development and Transfer

This course examines the processes involved in designing and bringing new products to market, and the engineering, cultural, political and business factors that influence those processes. Special attention is paid to the concepts of human-centered and gendered design, the structure and functioning of product development teams and the philosophy of concurrent engineering. Also covered in this course is the role that governments and agencies play in supporting technology transfer from research laboratory to marketplace, and from country to country. __Credit Hours: 3 hrs __Prerequisites: COT700 _When Offered: Offered only to Ph.D. in technology students.

COT 710 - Introductory Research Design and Applied Statistics in Technology

An application of introductory research design and statistics in technology. Emphasis is on the relationship between descriptive research design and methods and associated statistics. Students begin the process of developing a research proposal, formulating research questions, selecting data gathering methods and interpreting appropriate statistical procedures. __Credit Hours: 3 hrs __Prerequisites: department permission _When Offered: Offered only to Ph.D. in technology students.

COT 711 - Advanced Research Design and Applied Statistics in Technology

This course extends the subject matter considered in COT710. It is an application of experimental research design and parametric statistics to scholarly inquiry in technology. Emphasis in on the relationships between true and quasi-experimental research designs and methods and associated statistics. Students continue to refine their research proposals. __Credit Hours: 3 hrs __Prerequisites: COT710 _When Offered: Offered only to Ph.D. in technology students.

COT 712 - Qualitative Methods and Research Design in Technology

This course will describe how to use qualitative research methods and designs for conducting technology research. Students will acquire an understanding of the inherent differences between quantitative and qualitative research. Specific qualitative approaches for collecting, coding and analyzing data will be presented. Students will learn how to transpose qualitative data into quantitative data as well as learning how to utilize various computer programs within qualitative research. __Credit Hours: 2 hrs _When Offered: Offered only to Ph.D. in technology students.

COT 715 - Implementing and Managing Technological Change

This course covers the concepts of technology management as a field of study, the rationale for technology introduction, the value of partnership approaches to technology introduction and implementation, the role of organizational culture in contributing to technology success or failure and the importance of training and competency building. Students will study best-practice scenarios, apply the principles learned to case studies and critically analyze technological change practices at their own workplaces or an organization of their choosing. __Credit Hours: 3 hrs _Prerequisites: COT700 _When Offered: Offered only to Ph.D. in technology students.

COT 767 - Continuous Enrollment

Graduate students who are completing dissertation research or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Course offered on a credit/no-credit basis.

COT 771 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

COT 772 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

COT 773 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are
COT 777 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 1 hr

COT 778 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 2 hrs

COT 779 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 3 hrs

COT 780 - Technology Impact Assessment
Using a multidisciplinary approach, this course presents conceptual frameworks for assessing the impact of technology on society, institutions, organizations and individuals. It examines the mutual interaction of technological and human systems, and the social institutions engaged in technology impact analyses. Offered only to Ph.D. in technology students. __Credit Hours: 3 hrs _Prerequisites: COT700

COT 786 - Internship in Technology
Credit Hours: 1 hr _Prerequisites: department permission

COT 787 - Internship in Technology
Credit Hours: 2 hrs _Prerequisites: department permission

COT 788 - Internship in Technology
Credit Hours: 3 hrs _Prerequisites: department permission

COT 789 - Internship in Technology
Credit Hours: 4 hrs _Prerequisites: department permission

COT 795 - Research Design Capstone Seminar
This seminar is an opportunity for students to prepare for their COT 894 candidacy examination by writing, presenting and refining three research prospecti on possible dissertation research topics; one utilizing a qualitative research design, one a descriptive research design and one an experimental research design. __Credit Hours: 3 hrs _Prerequisites: COT700, COT710 and offered only to Ph.D. in technology students _When Offered: Offered only to Ph.D. in technology students.

COT 871 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

COT 872 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

COT 873 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs

COT 874 - Candidacy Seminar
A candidacy qualifying examination seminar for eligibility to form a dissertation committee and begin work on the dissertation research proposal. The student will write and present three research paper prospecti to their candidacy examination committee on possible dissertation research topics. One must utilize a qualitative research design, one a descriptive research design and one an experimental research design. __Credit Hours: 2 hrs _Prerequisites: Offered only to Ph.D. in technology students

COT 895 - Dissertation Research and Design Seminar
This seminar is an opportunity for students to identify and refine possible dissertation research topics by critically analyzing how the study of technology is approached in the research literature. By exploring the nature of inquiry in technology, students will be able to identify the conceptual framework for a dissertation, write a research problem statement and construct a preliminary research plan. __Credit Hours: 3 hrs _Prerequisites: COT 700/710 _When Offered: Offered only to Ph.D. in technology students

COT 896 - Dissertation Research
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 1 hrs _Prerequisites: candidacy status

COT 897 - Dissertation Research
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 2 hrs _Prerequisites: candidacy status
COT 898 - Dissertation Research
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 4 hrs _Prerequisites: candidacy status

COT 899 - Dissertation Research
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 8 hrs _Prerequisites: candidacy status

COT 900 - Dissertation Research
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 12 hrs _Prerequisites: candidacy status

Counseling

COUN 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

COUN 503 - Dynamics of Life Development
A study of life transitions and their impact on personal, social and vocational development. Theoretical concepts and recent research findings on adult development will be examined. Exploration of practical program applications for individual and group counseling. This was previously course COUN631; If a student took it as COUN631 it does not need to be taken again. __Credit Hours: 3 hrs

COUN 505 - Counselor Development: Basic Skills
This course is designed to train prospective counselors for competencies in beginning counseling skills and to assess individuals' potential for counseling. Clarification of expectations for entering the counseling profession, examining motives, selecting complementary learning experiences, getting the most out of training and tracing one's beginnings as a helper. Open to majors, nonmajors and seniors with permission. __Credit Hours: 3 hrs

COUN 508 - Theories of Counseling
The focus is the rationale, historical development and major constructs of theories that represent foundational approaches to counseling. The applicability of each theory for practice with diverse client populations is studied as well as the ethical and legal implications of practice. Students begin the development and conceptualization of a personal counseling theory. __Credit Hours: 3 hrs

COUN 515 - Crisis Intervention
Focus on crisis intervention from theoretical and practical perspectives. Emphasis on defining the nature of crisis; on intervention in specific crisis reactions resulting from such events as rape, loss or illness; and on intervening with suicidal clients and other clients in crisis. Practice in intervention through role-playing. __Credit Hours: 2 hrs _Prerequisites: COUN505 or instructor permission

COUN 520 - Assessment in Counseling
This course is designed to provide a foundation for using assessment procedures in counseling. Emphasis will be given to developing skills in using basic measurement concepts and qualitative and quantitative assessment methods. __Credit Hours: 3 hrs _Prerequisites: EDPS667 and EDPS677

COUN 530 - Career Development and Information Services
This course includes an introduction to the psychology, sociology and economics of work and career-development theory. It also provides the skills needed for identification and organization of information services in counseling and student affairs practice. Students are also introduced to the method and practice of career counseling and student affairs practice. __Credit Hours: 3 hrs _Prerequisites: COUN505

COUN 540 - Group Process I
This course will introduce basic group counseling theories and processes. Students will learn to observe and critique the group process. Information will be presented on such topics as the types, rationale, development, leadership and ethics of groups. __Credit Hours: 3 hrs _Prerequisites: COUN505, COUN508 and students must be program admitted

COUN 550 - Introduction to Student Affairs in Higher Education
This course is designed to provide an introduction to the field of student affairs in higher education. The course provides several introductory elements: an historical overview of student affairs, professional ethics, theoretical approaches to student learning and an introduction to the various functions and activities associated with student affairs. The course is designed to examine student affairs in public and private institutions as well as community colleges. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with EDLD550.

COUN 551 - Contemporary College Students
This course focuses on an examination of the changing undergraduate lifestyle, attitudes, characteristics and demographics of today’s college students. In the course the students will examine the effects of higher education, the student as learner and student development theory. Attention is given to both traditional and nontraditional college populations in two- and four-year institutions. __Credit Hours: 3 hrs _Prerequisites: COUN550 or permission of instructor _Cross-listed: This course is cross-listed with EDLD551.

COUN 571 - Cross-cultural Counseling
Develop an understanding of the influence of culture on intra- and interpersonal behavior, as well as the interpersonal competence and instrumental skills needed to counsel people from multiple and culturally different backgrounds. __Credit Hours: 3 hrs _Prerequisites: COUN505

COUN 572 - Counseling Parents
Focus on the significant parent counseling
programs and techniques in current use. Provision of opportunities to utilize learned counseling and communication skills in assisting parents to develop effective parenting skills compatible with their cultural, ethnic, religious, interpersonal and social orientations. __Credit Hours: 2 hrs __Prerequisites: COUN505 or permission of instructor

**COUN 573 - Counseling Older Persons**

This course is designed to provide students with information and skills needed by counselors to work with older adults. The focus of this course is on a developmental counseling perspective emphasizing aging — an important aspect of lifespan development. Students will study the methods and strategies needed to assist older adults who face changes, concerns, crisis and adaptations associated with aging. __Credit Hours: 2 hrs __Prerequisites: COUN505 or permission of instructor

**COUN 574 - Couple and Family Counseling**

This course provides an overview of couple and family counseling. Participants will have an opportunity to learn couple and family counseling skills as well as focus on related principles, practices and processes. Information will be provided on contemporary approaches, ethical considerations and professional issues. Counseling practices for different populations and types of families will be explored. The course will have an experiential learning and discussion format. __Credit Hours: 2 hrs __Prerequisites: COUN505 or permission of instructor

**COUN 575 - Substance Abuse Counseling I**

The course introduces participants to basic knowledge, concepts and counseling methods utilized in the field of chemical dependency. The prospective counselor will acquire a basic foundation for working with clients who are affected by their own, or someone else’s, chemical abuse. __Credit Hours: 2 hrs __Prerequisites: COUN505

**COUN 576 - Counseling Survivors of Trauma**

The purpose of this course is to provide students with the basic knowledge and skills to work with clients who have experienced traumatic events. The course will focus on both the assessment of trauma reactions as well as individual and group interventions with children and adults. __Credit Hours: 2 hrs __Prerequisites: COUN505

**COUN 580 - Counselor Development: Counseling Process**

This course is designed to integrate basic skills and to train prospective counselors for the implementation of counseling skills. A major portion of the course focuses on knowledge of the counseling process, stages and practices. Introductory study of contemporary counseling models is provided. Ethical considerations are covered. Counseling practices for specific issues and populations are introduced. __Credit Hours: 3 hrs __Prerequisites: COUN505 and students must be program admitted

**COUN 581 - Special Topics**

Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. (See current schedule.) Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: will be determined on the basis of special topics being offered

**COUN 591 - Special Topics**

Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. (See current schedule.) Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: will be determined on the basis of special topics being offered

**COUN 592 - Special Topics**

Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. (See current schedule.) Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: will be determined on the basis of special topics being offered

**COUN 594 - Crisis Counseling**

This course is designed to provide students with an overview of crisis counseling as it relates to the helping professions. The course will focus on the role of the counselor in life-span development, with an emphasis on the counseling and student affairs practice fields. __Credit Hours: 2 hrs __Prerequisites: COUN505

**COUN 595 - Workshop**

Workshops dealing with selected areas within the counseling and student affairs practice field such as the self-concept, career education, psychological education and other relevant topics of interest. __Credit Hours: 2 hrs __Prerequisites: open to counseling and student affairs practice majors and graduate students in related fields

**COUN 597 - Independent Study**

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. __Credit Hours: 1 hr __Prerequisites: department permission

**COUN 598 - Independent Study**

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. __Credit Hours: 2 hrs __Prerequisites: department permission

**COUN 599 - Independent Study**

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. __Credit Hours: 3 hrs
COUN 612 - The School Counselor
This course emphasizes the role of the school counselor in the comprehensive developmental counseling program. The focus is on the historical evolution, skills and techniques for working effectively with a diverse population of students, K–12. This includes the development of skills for working with teachers, parents, administrators, referral agencies and other educational teams. Credit Hours: 2 hrs _Prerequisites: COUN505 and COUN503 or COUN631

COUN 622 - Diagnosis and Treatment Planning in Counseling
This course provides students with a working knowledge of diagnostic classification systems, specifically the current version of the DSM. Additionally, the course introduces students to skills in selecting and implementing appropriate treatment strategies and in case presentation. Students have opportunities to apply knowledge and skills to client cases. Credit Hours: 3 hrs _Prerequisites: COUN505 and COUN510 or COUN580

COUN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

COUN 640 - Group Process II
Advanced opportunity for students to develop further group skills and to expand their awareness of interactions in a group. Assessment of the student’s own potential as a group counselor through small group participation. Credit Hours: 2 hrs _Prerequisites: COUN510 and COUN540

COUN 650 - Organization and Administration of School Counseling Services
A study of the philosophy and principles of counseling as implemented into practice. Examination of the organization and administration of the various counseling services and the counseling functions of various school staff members. Credit Hours: 2 hrs _Prerequisites: COUN505

COUN 651 - Counseling with Children
An investigation of the specialized skills and theoretical frameworks involved in counseling with children. Special emphasis will be placed on the consideration of developmental levels and on the use of play therapy techniques. This course is applicable to counselors wishing to practice in community, private practice and elementary school settings. Credit Hours: 3 hrs _Prerequisites: COUN631 or COUN503

COUN 652 - The Counselor as Consultant
Basic overview for counselors of the theories, process and practices in consultation. Methods of establishing collaborative relationships are described. Individual and group consulting approaches for counselors will be discussed and practiced. Credit Hours: 2 hrs _Prerequisites: COUN505 or permission of instructor

COUN 655 - College Student Development Theory
This course teaches education professionals to apply college student development and learning theories in higher education environments. Students will learn how various theories can be intentionally applied to facilitate student development both inside and outside the classroom. Student development theory is unique to higher education environments. Further relevant psychological theories are offered in PSY640 and PSY646. Credit Hours: 3 hrs _Prerequisites: graduate standing _Cross-listed: This course is cross-listed with EDLD655.

COUN 660 - Community Resources in Counseling
Identification, analysis and development of the community resources needed by counselors who work in a variety of settings. Focus on skills in identifying, referring and receiving client referrals. Presentations by representative community agencies in class or on-site during class time. Credit Hours: 2 hrs

COUN 671 - Advanced Multicultural Counseling
This seminar style course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. The course is designed for students who have already obtained a personal awareness of the importance of counselor and client race, ethnicity, gender, socioeconomic class, religion/spirituality, disability and sexual orientation, and the sociopolitical effects of these issues on the counseling process. This course is heavily experiential as there is a fieldwork component where students will practice using cultural competency skills. Credit Hours: 3 hrs _Prerequisites: COUN571

COUN 679 - Special Topics
Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. Credit Hours: 1 hr _Prerequisites: will be determined on the basis of special topics being offered _Notes: Not more than six hours of special topics may be used on a degree program. (See current schedule.)

COUN 679 - Special Topics
Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. Credit Hours: 1 hr _Prerequisites: will be determined on the basis of special topics being offered _Notes: Not more than six hours of special topics may
Designed primarily for graduate students and not more than six hours of special topics may be used on a degree program. (See current schedule.)

COUN 680 - Special Topics
Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. __Credit Hours: 2 hrs __Prerequisites: will be determined on the basis of special topics being offered __Notes: Not more than six hours of special topics may be used on a degree program. (See current schedule.)

COUN 681 - Special Topics
Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. __Credit Hours: 3 hrs __Prerequisites: will be determined on the basis of special topics being offered __Notes: Not more than six hours of special topics may be used on a degree program. (See current schedule.)

COUN 682 - Special Topics
Special courses and seminars dealing with contemporary topics and issues in the counseling and student affairs practice field. Designed primarily for graduate students and practitioners in the helping professions. Topics to be selected. __Credit Hours: 3 hrs __Prerequisites: will be determined on the basis of special topics being offered __Notes: Not more than six hours of special topics may be used on a degree program. (See current schedule.)

COUN 683 - Counseling Practicum I
The purpose of this practicum experience is to provide opportunities for students to work with diverse clients and client situations. It serves as an integrating component in master’s degree programs, affording students a structured and supportive environment in which to apply counseling theories, techniques and skills learned in previous course work. Students also develop skills in observations, feedback, case preparation, interview analysis and reporting as well as become aware of a variety of professional resources and community referral agencies. __Credit Hours: 1 hr __Prerequisites: department permission

COUN 684 - Counseling Practicum I
The purpose of this practicum experience is to provide opportunities for students to work with diverse clients and client situations. It serves as an integrating component in master’s degree programs, affording students a structured and supportive environment in which to apply counseling theories, techniques and skills learned in previous course work. Students also develop skills in observations, feedback, case preparation, interview analysis and reporting as well as become aware of a variety of professional resources and community referral agencies. __Credit Hours: 2 hrs __Prerequisites: department permission

COUN 685 - Counseling Practicum I
The purpose of this practicum experience is to provide opportunities for students to work with diverse clients and client situations. It serves as an integrating component in master’s degree programs, affording students a structured and supportive environment in which to apply counseling theories, techniques and skills learned in previous course work. Students also develop skills in observations, feedback, case preparation, interview analysis and reporting as well as become aware of a variety of professional resources and community referral agencies. __Credit Hours: 3 hrs __Prerequisites: department permission

COUN 686 - Counseling Practicum I
The purpose of this practicum experience is to provide opportunities for students to work with diverse clients and client situations. It serves as an integrating component in master’s degree programs, affording students a structured and supportive environment in which to apply counseling theories, techniques and skills learned in previous course work. Students also develop skills in observations, feedback, case preparation, interview analysis and reporting as well as become aware of a variety of professional resources and community referral agencies. __Credit Hours: 4 hrs __Prerequisites: department permission

COUN 687 - Counseling Practicum II
This advanced course focuses on the theory and practice of group counseling. Students are provided opportunities to facilitate counseling groups under the supervision of a faculty member. __Credit Hours: 3 hrs __Prerequisites: COUN686 and department permission __When Offered: Offered on a credit/no-credit basis.

COUN 688 - Counseling Practicum II
This advanced course focuses on the theory and practice of group counseling. Students are provided opportunities to facilitate counseling groups under the supervision of a faculty member. __Credit Hours: 3 hrs __Prerequisites: COUN686 and department permission __When Offered: Offered on a credit/no-credit basis.

COUN 689 - Field-Based Experience I
This course emphasizes on-the-job experiences under professional supervision that afford the student practical experiences in counseling and student affairs in settings such as colleges, universities, community colleges or other approved settings. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

COUN 690 - Field-Based Experience II
This course emphasizes job experiences under professional supervision that afford the student practical experiences in student affairs in such settings as colleges and universities, community colleges or other approved placement settings. __Credit Hours: 2 hrs __Prerequisites: department permission

COUN 692 - Ethical, Legal and Professional Issues in College Counseling
This course provides opportunities for students to synthesize learning from previous coursework with application to college counseling. Current issues in the field, ethical and legal considerations, student development theories with an emphasis on diverse student groups and an action research project will be the focus of this course. _Credit Hours: 2 hrs _Prerequisites: COUN686 or department permission

COUN 694 - Ethical, Legal and Professional Issues in Community Counseling

To work effectively in community settings, counselors must be aware of current issues and changes in the profession. This course provides opportunities to explore ethical and legal issues, professional considerations such as community counselor identity, relationships with other mental health professionals, professional credentialing and managed care and third-party reimbursement. _Credit Hours: 2 hrs _Prerequisites: COUN686 or department permission

COUN 696 - Ethical, Legal and Professional Issues in School Counseling

This course provides opportunity to synthesize practical experiences in education and previous coursework with an emphasis on professional development as a school counselor. An integration of school counseling theories and models, legal, ethical and current issues, case studies and an action research project will be the focus of the course. _Credit Hours: 2 hrs _Prerequisites: COUN686 or department permission

COUN 697 - Independent Study

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. _Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

COUN 698 - Independent Study

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. _Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

COUN 699 - Independent Study

In these classes students have an opportunity to explore topics of interest in an intensive and independent manner. Topics must be selected, and an independent study pursued, with the approval and supervision of a member of the faculty in counseling and student affairs practice. _Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

COUN 785 - The Counseling Internship

An intensive field-based experience for candidates in the master’s degree programs in college student personnel services, school counseling, community counseling and the specialist’s degree in counseling. Counseling knowledge and advanced competencies are integrated in a setting under professional supervision. Placements are in a variety of community agency, school, college or educational settings. Application for the internship and approval for placement are required prior to registration. 600 hours in the setting are required for the counseling programs. _Credit Hours: 3 hrs _Prerequisites: 10 hours of advanced studies course work and/or department permission _When Offered: Offered on a credit/no-credit basis.

COUN 786 - The Counseling Internship

An intensive field-based experience for candidates in the master’s degree programs in college student personnel services, school counseling, community counseling and the specialist’s degree in counseling. Counseling knowledge and advanced competencies are integrated in a setting under professional supervision. Placements are in a variety of community agency, school, college or educational settings. Application for the internship and approval for placement are required prior to registration. 600 hours in the setting are required for the counseling programs. _Credit Hours: 4 hrs _Prerequisites: 10 hours of advanced studies course work and/or department permission _When Offered: Offered on a credit/no-credit basis.

COUN 787 - The Counseling Internship

An intensive field-based experience for candidates in the master’s degree programs in college student personnel services, school counseling, community counseling and the specialist’s degree in counseling. Counseling knowledge and advanced competencies are integrated in a setting under professional supervision. Placements are in a variety of community agency, school, college or educational settings. Application for the internship and approval for placement are required prior to registration. 600 hours in the setting are required for the counseling programs. _Credit Hours: 2 hrs _Prerequisites: 10 hours of advanced studies course work and/or department permission _When Offered: Offered on a credit/no-credit basis.

COUN 788 - The Counseling Internship

An intensive field-based experience for candidates in the master’s degree programs in college student personnel services, school counseling, community counseling and the specialist’s degree in counseling. Counseling knowledge and advanced competencies are integrated in a setting under professional supervision. Placements are in a variety of community agency, school, college or educational settings. Application for the internship and approval for placement are required prior to registration. 600 hours in the setting are required for the counseling programs. _Credit Hours: 3 hrs _Prerequisites: 10 hours of advanced studies course work and/or department permission _When Offered: Offered on a credit/no-credit basis.

COUN 789 - The Counseling Internship

An intensive field-based experience for candidates in the master’s degree programs in college student personnel services, school counseling, community counseling and the
Criminology

CRM 412 - Law and Society
Law as a social and cultural product; the interrelationships between law and social institutions. __Credit Hours: 3 hrs __Prerequisites: SOCL105 _Cross-listed: This course is cross-listed with SOCL412. __Notes: Not open to those with credit in SOCL412; This is an undergraduate course available for graduate credit.

CRM 431 - Policing in Society
The social and historical origin of the police; police culture, role and career; police in the legal system: police discretion; ethical development of police; police and the community; police organization and community control. __Credit Hours: 3 hrs __Prerequisites: CRM300 _Notes: This is an undergraduate course available for graduate credit.

CRM 447 - Senior Seminar in Criminology
Summations and integrations of the various bodies of criminological knowledge and their applications to policies of crime prevention and control. __Credit Hours: 3 hrs __Prerequisites: CRM300, CRM301, SOCL250 and SOCL304 _Notes: This is an undergraduate course available for graduate credit.

CRM 460 - Criminal Law II
The social, political, and historical evolution of criminal procedure with an emphasis on its application with regard to law enforcement and the judiciary. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

CRM 488 - Field Internship in Criminology and Criminal Justice
A minimum of ten hours per week in a governmental or private agency dealing with the crime problem. The agency and the field instructor provide supervised learning experiences. __Credit Hours: 3 hrs __Prerequisites: junior standing and department permission; second semester juniors may be admitted by department permission __Notes: This is an undergraduate course available for graduate credit.

CRM 489 - Field Internship in Criminology and Criminal Justice
A minimum of ten hours per week in a governmental or private agency dealing with the crime problem. The agency and the field instructor provide supervised learning experiences. __Credit Hours: 3 hrs __Prerequisites: junior standing and department permission; second semester juniors may be admitted by department permission __Notes: This is an undergraduate course available for graduate credit.

CRM 506 - Criminology
The study of the nature, measurement, types and causes of crime. __Credit Hours: 3 hrs

CRM 507 - Criminal Justice in Contemporary Society
The course gives critical analysis of various components of criminal justice. Interrelationships to broader societal processes are stressed. Focus is directed on the police, courts and parts of the punitive/correctional apparatus. __Credit Hours: 2 hrs

CRM 513 - Social Deviance
The development of deviant self-conceptions; social psychological processes of group alienation and individual estrangements. Deviant behavior patterns and the development of deviant careers; theories of deviance. __Credit Hours: 3 hrs __Prerequisites: This course is cross-listed with SOCL513

CRM 547 - Advanced Studies in Criminology
An intensive analysis of selected problems in criminology and the application of criminology to policies and programs of crime prevention and control. __Credit Hours: 3 hrs

CRM 560 - Domestic Violence and Sexual Assault
A comprehensive study of the physical, sexual and emotional abuse that disproportionately affects women. Topics include theories of violence and intervention strategies. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with SOCL560 and WGST560.

CRM 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CRM 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CRM 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.
CRM 597 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 1 hr  
Prerequisites: department permission

CRM 598 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 2 hrs  
Prerequisites: department permission

CRM 599 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 3 hrs  
Prerequisites: department permission

CRM 610 - Theories of Criminal Behavior
Consideration of major theories of criminal and delinquent causation. Emphasis on sociological factors in criminal acts, and dynamics of criminal and delinquent behavior. __Credit Hours: 3 hrs  
Prerequisites: SOCL677

CRM 611 - Sociology of Crime and Its Correction
Punishment, rehabilitation and contemporary correctional policies; the courts and criminal responsibility; the social structure of correctional organizations and institutions, and their effect on the correctional process. __Credit Hours: 3 hrs

CRM 620 - Controversies in Policing
This course will expose students to a variety of controversial issues relating to the police. Specifically, the course will focus on community policing, police discretionary powers, police use of force, police corruption, racial profiling, the police role in crime rates, gender and policing, and "high profile" crimes. __Credit Hours: 3 hrs

CRM 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr  
Prerequisites: department permission
When Offered: Course is offered on a credit/no-credit basis

CRM 650 - Media, Crime and Justice
An examination of the intersecting roles of media, crime and justice and how the three converge to influence policies of social control. __Credit Hours: 3 hrs

CRM 679 - Special Topics
A brief, intensive exploration of specific aspects of crime and its relationship to social organization. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr  
Prerequisites: SOCL677

CRM 680 - Special Topics
A brief, intensive exploration of specific aspects of crime and its relationship to social organization. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs  
Prerequisites: SOCL677

CRM 681 - Special Topics
A brief, intensive exploration of specific aspects of crime and its relationship to social organization. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs  
Prerequisites: SOCL677

CRM 683 - Workshop in Crime and the Community
A brief, intensive exploration of specific aspects of crime and its relationship to social organization. __Credit Hours: 2 hrs

CRM 689 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 1 hr  
Prerequisites: department permission
When Offered: Offered on a credit/no-credit basis

CRM 691 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 2 hrs  
Prerequisites: department permission
When Offered: Offered on a credit/no-credit basis

CRM 692 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 3 hrs  
Prerequisites: department permission
When Offered: Offered on a credit/no-credit basis

CRM 697 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 1 hr  
Prerequisites: department permission

CRM 698 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 2 hrs  
Prerequisites: department permission

CRM 699 - Independent Study
Intensive study of a criminological problem or theory, supervised by a member of the criminology faculty. __Credit Hours: 3 hrs  
Prerequisites: department permission

Creative Writing

CRTW 422 - Writer's Workshop: Fiction or Poetry
A seminar workshop for the student who wants more experience in imaginative writing. The class schedule will specify
fiction or poetry for each particular workshop. This course may be repeated for additional credit if topic is different. __Credit Hours: 3 hrs __Prerequisites: CRTW335

Notes: This is an undergraduate course available for graduate credit.

CRTW 426 - Contemporary Forms
An advanced, reading-intensive course on contemporary and innovative forms of literature, emphasizing structural models, formal techniques and redefinitions of literary conventions. __Credit Hours: 3 hrs __Prerequisites: CRTW201 and any 200- or 300-level LITR course _Notes: This is an undergraduate course available for graduate credit.

CRTW 522 - Writing Workshop
An advanced workshop seminar in creative writing, with sections as specified in the schedule. __Credit Hours: 3 hrs __Prerequisites: graduate student in English or department permission _Repeatable: May be repeated for credit.

CRTW 523 - Writing Workshop: Poetry
An advanced workshop seminar in creative writing focusing on poetry. This course will give students the opportunity to discuss their own poetry, learn revision techniques, and engage creatively and analytically with contemporary poetry. __Credit Hours: 3 hrs __Prerequisites: department permission

CRTW 524 - Writing Workshop: Fiction
An advanced workshop seminar in creative writing focusing on fiction. This course will give students the opportunity to discuss their own fiction, learn revision techniques, and engage creatively and analytically with contemporary fiction. __Credit Hours: 3 hrs __Prerequisites: department permission

CRTW 525 - Writing Workshop: Creative Nonfiction
An advanced workshop seminar in creative writing focusing on creative nonfiction. This course will give students the opportunity to discuss their own nonfiction, learn revision techniques, and engage creatively and analytically with contemporary creative nonfiction. __Credit Hours: 3 hrs __Prerequisites: department permission

Notes: This is an undergraduate course available for graduate credit.

CRTW 526 - Writing Workshop: Sound Poetry
An advanced workshop seminar in creative writing focusing on sound poetry. Students will study the acoustic aspects of language and music or sound art as a means of creating poetry; the class is focused on student work and discussion. __Credit Hours: 3 hrs __Prerequisites: department permission

CRTW 527 - Writing Workshop: The Lyric Essay
An advanced workshop seminar in creative writing focusing on the lyric essay. This course will introduce students to a genre that blends lyric poetry with the traditional essay; each student will write at least one extended lyric essay and present it to the class for discussion. __Credit Hours: 3 hrs __Prerequisites: department permission

CRTW 528 - Writing Workshop: Interactive Narrative
An advanced workshop seminar in creative writing focusing on interactive narrative. Students will study existing work in hypermedia, video art, and installation as well as other narrative forms utilizing the screen such as video games and Web technologies; this class is focused on student work and class discussions. __Credit Hours: 3 hrs __Prerequisites: Department permission

CRTW 529 - Writing Workshop: Mixed Media
An advanced workshop seminar in creative writing focusing on mixed media. This course includes projects and exhibits of mixed creative work, using student writing, found text and other mixed materials in alternative book forms, hybrid texts, alternative narrative structures and collaborative installations. __Credit Hours: 3 hrs __Prerequisites: department permission

CRTW 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

Communication and Theatre Arts

CTAA 466 - Forensics
Students who participate in co-instructional activities may, with the approval of the professor in charge and the department head, receive one hour of credit in a single activity during one semester. Students may earn up to four hours credit in one activity or in several. Admission to the activity does not ensure credit. __Credit Hours: 1 hr __Prerequisites: department permission _Notes: This is an undergraduate course available for graduate credit.

CTAA 467 - Theatre Practice
Students participating in specific positions with major responsibility in productions of the EMU Theatre, the department’s instructional activity program in theatre arts, by prior permission of the department, may receive one hour of credit during a single semester. The specified positions and prerequisites are: additional experience in directing an experimental series production. __Credit Hours: 1 hr _Notes: This is an undergraduate course available for graduate credit.

CTAA 468 - Interpretation
Students who participate in co-instructional activities may, with the approval of the professor in charge and the department head, receive one hour of credit in a single activity during one semester. Students may earn up to four hours credit in such activities and the credit may be earned in one activity or in several activities. Admission to the activity does not ensure credit.
CTAC 475 - Research in Speech Communication
An examination of methods currently employed in speech communication, as well as a review of the many types of application now being made. Course includes analysis of speech communication behavior. __Credit Hours: 3 hrs __Prerequisites: CTAC124 and junior or senior standing __Notes: This is an undergraduate course available for graduate credit.

CTAO 410 - Oral Interpretation of Shakespeare
Specific problems involved in the oral interpretation of Shakespeare. Emphasis placed on language style and characterization problems. Students work individually and collectively in orally interpreting selections from Shakespeare's works. __Credit Hours: 3 hrs __Prerequisites: CTAO210 or CTAR158, or CTAO210 or departmental permission __Notes: This is an undergraduate course available for graduate credit.

CTAO 411 - Advanced Problems in Interpretation
The presentation of programs of some length and difficulty in prose, poetry and drama. Emphasis on programming, styles of interpretation, choral reading and experimental work. A public program will be presented by the class. __Credit Hours: 3 hrs __Prerequisites: six hours of oral interpretation or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAO 412 - Oral Interpretation of Poetry
The application of the principles of oral interpretation to the reading of poetry, with emphasis on modern and contemporary poetry. __Credit Hours: 3 hrs __Prerequisites: CTAO210 __Notes: This is an undergraduate course available for graduate credit.

CTAR 451 - History of the Theatre 1642 to Present
History of the physical theatre and the written drama in the western world from the Commonwealth period in England to the present. __Credit Hours: 3 hrs __Prerequisites: junior standing or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 452 - Arts Management
A study of managerial practices of arts organizations and agencies. Emphasis on facility planning, personnel, income sources, promotion, budget development and management. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

CTAR 453 - Marketing the Arts
Relates traditional marketing practices to arts administration and provides experience in applying marketing skills to the arts. The study of marketing in the arts and information relating to past market analysis; research and preparation of a specific market plan for an arts organization; presentation of market plan. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.
CTAR 457 - Auditions

Intensive study in the preparation of audition material for a wide range of stylistic demands that exist within the professional theatre. __Credit Hours: 2 hrs __Prerequisites: CTAR157, CTAR158, CTAR358, CTAR461 or CTAR464 __Notes: This is an undergraduate course available for graduate credit.

CTAR 458 - Acting/Directing/Production Intensive I

This course is the collaborative study and presentation of post-1850 theatrical styles and genres for actor, director and designer. Students work in production teams to develop and present simple solutions. __Credit Hours: 3 hrs __Prerequisites: CTAR355 and 12 hours in theatre or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 459 - Acting/Directing/Production Intensive

This course is the collaborative study and presentation of pre-1850 theatrical styles and genres for actor, director and designer. Students work in production teams to develop and present multiple solutions. __Credit Hours: 2 hrs __Prerequisites: CTAR355 and 12 hours in theatre or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 461 - Musical Theatre Acting

Analysis and application of the performance skills needed by the actor/singer in musical theatre. __Credit Hours: 2 hrs __Prerequisites: nine hours in theatre arts or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 462 - Directors on Directing

Study of select, noted stage directors past and present. __Credit Hours: 2 hrs __Prerequisites: CTAR355 and nine hours in theatre arts or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 463 - The American Musical Stage

Character, production, style in the American musical including concept musicals, operetta, golden age, rock, and musical revues. Historical survey and production workshop format. __Credit Hours: 3 hrs __Prerequisites: junior standing or above __Notes: This is an undergraduate course available for graduate credit.

CTAR 464 - Style for the Actor

This course will address the challenge of matching the actor’s personal methods with a wide range of stylistic demands that exist in the theatrical repertory. The student will discover that acting means translating the text into a series of actions and that physical actions take on a particular shape or style in accordance with the given circumstances of the text. __Credit Hours: 3 hrs __Prerequisites: CTAR158 or CTAR157; open to senior, junior and graduate students with permission __Notes: This is an undergraduate course available for graduate credit.

CTAR 465 - Acting/Directing/Production Intensive II

This course is the collaborative study and presentation of dramatic texts in historical, literary, and performative contexts as it contributes to collaborative production of theatre. Special attention will be given to research strategies, modes of textual analysis, critical writing for/about theatre, and dramaturgy’s utility within various aspects of production. __Credit Hours: 3 hrs __Prerequisites: CTAT130 and CTAT132 __Notes: This is an undergraduate course available for graduate credit.

CTAR 466 - The American Musical Stage

Character, production, style in the American musical including concept musicals, operetta, golden age, rock, and musical revues. Historical survey and production workshop format. __Credit Hours: 3 hrs __Prerequisites: CTAT331. Advanced theory and practical experience in production of longer, more complex dramatic and nondramatic material for radio. __Credit Hours: 3 hrs __Prerequisites: CTAT130 and CTAT132 __Notes: This is an undergraduate course available for graduate credit.

CTAT 432 - Advanced Television Production and Direction

A continuation of CTAT332. Principles, practices and techniques of directing and producing dramatic material for television. Major television formats discussed and analyzed. Practical experience in depth provided for each student. Laboratory fee. __Credit Hours: 3 hrs __Prerequisites: CTAT332 or department permission __Notes: This is an undergraduate course available for graduate credit.

CTAT 445 - Film Theory and Criticism

An intensive study of the key theories of film structure, historical development and sociological function. Emphasis upon theories of editing, auteur criticism, genres and textual analysis. __Credit Hours: 3 hrs __Prerequisites: CTAT145 __Notes: This is an undergraduate course available for graduate credit.

CTAT 446 - Contemporary Problems in Electronic Media

A study of contemporary issues and problems affecting the electronic media industries, including cultural influences, programming, new technologies, government regulation and research. __Credit Hours: 3 hrs __Prerequisites: CTAT130 __Notes: This is an undergraduate course available for graduate credit.

CTAT 447 - Radio-Television Station Management

Study of stationmanagement in the areas of advertising, programming, personnel, applied research and public relations. __Credit Hours: 3 hrs __Prerequisites: CTAT130 __Notes: This is an undergraduate course available for graduate credit.

Communication

CTAC 504 - Creativity and Communication

Develop an understanding of the role communication plays in the creative process; ranging from communication skills necessary to individually generate ideas, work collaboratively with others to develop ideas.
and persuade organizations to implement ideas. __Credit Hours: 2 hrs

CTAC 505 - Assertiveness Skills for Professionals

Assertiveness skills training for business and education professionals. The focus of the course is on the theory and practice of assertive behaviors. __Credit Hours: 2 hrs

CTAC 506 - Persuasion in the Modern World

Emphasis is placed on the uses and applications of persuasion in such areas as politics, business, religion and education. __Credit Hours: 2 hrs

CTAC 507 - Negotiation Skills for Professionals

Practical applications of negotiation skills for counseling, education and business professions. __Credit Hours: 2 hrs

CTAC 508 - Small Group Decision-Making

The theory and practice of discussion, and practice of communication in small-group decision-making. __Credit Hours: 2 hrs

CTAC 509 - Communication for Leaders

Theory and applications of communication in leadership roles. Deals with interviews, staff meetings, dyadic communication, communication in organizations and communication barriers, with methods of evaluating and improving interpersonal, group and public communication. __Credit Hours: 2 hrs

CTAC 510 - Listening Skills for Professionals

Practical applications of listening skills for counseling, education and business professions. __Credit Hours: 2 hrs

Interracial/Interethnic Communication

The development of analytical skills and the study of theoretical perspectives that are applicable in effective interracial/interethnic communication transactions. __Credit Hours: 2 hrs

CTAC 512 - Conflict Resolution Skills for Professionals

Practical applications of the communication skills utilized for conflict resolution processes and procedures for professionals. __Credit Hours: 2 hrs

CTAC 511 - Readings in Interracial/Interracial Communication

The development of analytical skills and the study of theoretical perspectives that are applicable in effective interracial/interethnic communication transactions. __Credit Hours: 3 hrs

CTAC 512 - Communication and Change

An exploration of interpersonal, small group, organizational, public and mass communication from the perspective of change theories. __Credit Hours: 3 hrs

CTAC 570 - Teaching of College Speech

Theory and practice of teaching speech at the college level. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAC 572 - Studies in Organizational Communication

The study of organizations from a communication perspective, focusing on the theoretical views and analytical skills necessary for understanding the role communication plays in the organizing process. __Credit Hours: 3 hrs

CTAC 573 - Studies in Communication and Negotiation

The theory and practice of negotiation for interpersonal, small-group and labor/management applications. __Credit Hours: 3 hrs

CTAC 574 - Studies in Small Group Communications

An examination of methods and research currently being conducted in discussion and small-group studies. __Credit Hours: 3 hrs

CTAC 575 - Studies in Listening Behavior

A study of the practice of listening behavior for interpersonal, small-group and organizational applications. __Credit Hours: 3 hrs __Prerequisites: major in communication and theatre arts.

CTAC 576 - Public Address

Critical study of significant speeches of leading speakers with reference to dominant issues and influences on social and political life. __Credit Hours: 3 hrs

CTAC 577 - Communication and Conflict Resolution

A study of the theory and practice of communication strategies for conflict resolution for interpersonal, small-group and organizational applications. __Credit Hours: 3 hrs

CTAC 578 - Community Communication

The study of theoretical perspectives and the development of analytical skills necessary for effective intercultural communication transactions. __Credit Hours: 3 hrs

CTAC 579 - Studies in Intercultural Communication

The study of theoretical perspectives and the development of analytical skills necessary for effective intercultural communication transactions. __Credit Hours: 3 hrs

CTAC 582 - Rhetorical Theory

A study of selected rhetorical theories from the classical age to the present with a view of discovering the methods and objectives of rhetoricians and relating them to society and its problems. __Credit Hours: 3 hrs

CTAC 583 - Communication and Conflict Resolution

A study of the theory and practice of communication strategies for conflict resolution for interpersonal, small-group and organizational applications. __Credit Hours: 3 hrs

CTAC 584 - Studies in Small Group Communications

An examination of methods and research currently being conducted in discussion and small-group studies. __Credit Hours: 3 hrs
CTAC 586 - Theories of Persuasion
A review of contemporary research and theories of persuasion. __Credit Hours: 3 hrs

CTAC 587 - Communication Theory
A critical examination of fundamental processes and principles of communication behavior. __Credit Hours: 3 hrs

CTAC 590 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAC 591 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAC 592 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAC 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAC 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAC 600 - Communication Inquiry
Communication inquiry explores the questions, methods and assumptions employed by scholars in communication. The course focuses on current literature, theoretical frames and basic approaches to research. __Credit Hours: 3 hrs

CTAC 606 - Colloquium in Communication
Students will study a special topic area with resource persons from the community as well as members of the Communication, Media and Theatre Arts faculty. __Credit Hours: 1 hr __When Offered: Offered on a credit/no-credit basis.

CTAC 607 - Colloquium in Communication
Students will study a special topic area with resource persons from the community as well as members of the Communication, Media and Theatre Arts faculty. __Credit Hours: 2 hrs __When Offered: Offered on a credit/no-credit basis.

CTAC 608 - Colloquium in Communication
Students will study a special topic area with resource persons from the community as well as members of the Communication, Media and Theatre Arts faculty. __Credit Hours: 3 hrs __When Offered: Offered on a credit/no-credit basis.

CTAC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

CTAC 645 - Theories of Interpersonal Communication
Study of the theoretical foundations of interpersonal communication and survey of related research. __Credit Hours: 3 hrs

CTAC 677 - Research Techniques
An introduction to the nature and value of research; the research problem; basic research tools; philosophical foundations of historical, descriptive and experimental research; professional writing. __Credit Hours: 3 hrs __Prerequisites: CTAC600

CTAC 679 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAC 680 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAC 681 - Special Topics
Students will investigate a particular topic that is approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAC 682 - Workshop in Communication
Students will be provided practical and theoretical study in a selected topic area. 
_Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 683 - Workshop in Communication
Students will be provided practical and theoretical study in a selected topic area. 
_Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 684 - Workshop in Communication
Students will be provided practical and theoretical study in a selected topic area. 
_Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 686 - Cooperative Education in Communication
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. 
_Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 687 - Cooperative Education in Communication
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. 
_Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 688 - Cooperative Education in Communication
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. 
_Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 689 - Internship in Communication and Theatre Arts
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. 
_Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 690 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. 
_Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 691 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. 
_Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 692 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. 
_Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 693 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. 
_Credit Hours: 1 hr

CTAC 694 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. 
_Credit Hours: 2 hrs

CTAC 695 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. 
_Credit Hours: 3 hrs

CTAC 696 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. 
_Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAC 697 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. 
_Credit Hours: 1 hr _Prerequisites: department permission

CTAC 698 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. 
_Credit Hours: 2 hrs _Prerequisites: department permission

CTAC 699 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. 
_Credit Hours: 3 hrs _Prerequisites: department permission

Interpretation/Performance Studies

CTAO 536 - Screenplay Writing I
Introduces students to a process that leads to the successful completion of a screenplay to midpoint; includes film structure, character and dialogue, writing for visual impact, screenplay format. 
_Credit Hours: 3 hrs

CTAO 540 - Personal Narrative/Oral History in Performance
Explores nature and role of these texts in relationship to “other” and social-cultural-political perspectives. Focus on primary sources, including interviewing, transcribing, scripting, staging for solo-group performance and ethics. 
_Credit Hours: 3 hrs

CTAO 541 - Performance, Text and Context
Exploration and experience in locating new texts and performances within the parameters of specific contexts. Emphasis on implications of cultural, sociopolitical and
CTAO 542 - Adapting/Directing Narrative Theatre
Analysis, adaptation and direction of narrative, particularly prose fiction, for group performance and theatre; exploration of group performance as dramatic enactment, interrogation, cultural and critical expression; experimentation in emergent forms. __Credit Hours: 3 hrs

CTAO 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAO 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAO 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAO 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAO 598 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAO 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAO 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAO 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAO 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAO 682 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs _Prerequisites: graduate student in communication and theatre arts, or a related field; department permission _When Offered: Offered on a credit/no-credit basis.

CTAO 683 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 3 hrs _Prerequisites: graduate student in communication and theatre arts, or a related field; department permission _When Offered: Offered on a credit/no-credit basis.

CTAO 684 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 2 hrs _Prerequisites: graduate student in communication and theatre arts, or a related field; department permission _When Offered: Offered on a credit/no-credit basis.

CTAO 685 - Workshop
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs _Prerequisites: graduate student in communication and theatre arts, or a related field; department permission _When Offered: Offered on a credit/no-credit basis.

CTAO 695 - Seminar in Interpretation
A research-oriented course for graduate majors in communication and theatre arts. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

CTAO 697 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

CTAO 698 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission
CTAO 699 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. 
__Credit Hours: 3 hrs__
_Prerequisites: department permission

Theatre and Educational Drama

CTAR 429 - History and Theory of Development Drama/Theatre
An introductory study of the history and theory of developmental drama/theatre. Students will become familiar with the current thinking of major practitioners in the field of developmental drama/theatre and consider the current research that involves the development of new or the validation of existing knowledge relating to history and/or theory of developmental drama/theatre. __Credit Hours: 3 hrs__
_Notes: This is an undergraduate course available for graduate credit._

CTAR 450 - History of the Theatre to 1642
A history of the physical theatre and the written drama from antiquity to 1642. Emphasis on theatre architecture and stagecraft, including scenery, costumes and lighting. __Credit Hours: 3 hrs__
_Prerequisites: junior standing or department permission__
_Notes: This is an undergraduate course available for graduate credit._

CTAR 501 - Creative Drama and Role-Play
An introduction to understanding the creative process, dramatic play, gaming and involvement drama as developmental learning. __Credit Hours: 2 hrs__

CTAR 502 - Introduction to Theatre for the Young
An introductory consideration of the scope, purposes, forms and materials of theatre for the young. __Credit Hours: 2 hrs__

CTAR 504 - Oral Interpretation of Literature and Language with the Young
Emphasis on the study of interpreting literature orally for and with the young, including developing competence and understanding in the adult and child in interpretive and improvised work emerging from literature and language. __Credit Hours: 2 hrs__

CTAR 522 - TIE: Theatre-in-Education
A study of the origin, principles and forms of TIE: Theatre-in-Education. Students will have opportunities to plan and evaluate TIE sessions. __Credit Hours: 2 hrs__

CTAR 523 - Puppetry: Catalyst in Human Development
Consideration of puppetry as a medium for learning and creative expression. Experience in constructing puppets for purposeful work with people. Examination of the applications of puppetry to many disciplines. __Credit Hours: 3 hrs__

CTAR 524 - Developmental Drama/Theatre for Persons with Disabilities
Study of principles, theories and practices of developmental drama/theatre for persons with disabilities. Applications to educational, recreational and institutional settings will be stressed. __Credit Hours: 2 hrs__

CTAR 525 - Developmental Drama/Theatre in Recreational Settings
An exploration of the theory and practice of developmental drama/theatre in various recreational settings, such as camps, parks, community centers, Girl Scouts, 4-H Clubs. __Credit Hours: 2 hrs__

CTAR 526 - Fund Raising Topics in the Arts
This course provides an advanced analysis of what students need to know about securing donations as they prepare for leadership positions in the field of Nonprofit Arts Management. All units studied are informed by the creation of a plausible case statement for giving. Units explored will include: managing the giving process, securing the gift, relationship building, donor research, volunteer involvement, and ethical accountability. __Credit Hours: 2 hrs__
_Notes: Academic Service-Learning will be required for this class._

CTAR 527 - Grant Proposal Writing and Management in the Arts
This course provides students with the knowledge and skills necessary to write and effectively manage grants to arts organizations. While working in grant writing teams on the research, preparation and submission process students will design and test management tools in data collection, record keeping, compliance and reporting. This course prepares students to successfully respond to requirements for the increased accountability demanded of arts organizations in requesting and administering grants. __Credit Hours: 2 hrs__

CTAR 528 - Developmental Drama/Theatre in Religion
Consideration of and experience in uses of developmental drama/theatre for various religious settings and purposes. __Credit Hours: 2 hrs__

CTAR 529 - Producing Theatre for Young Audiences
Students will gain practical experience in play development, direction, performance and production for young audiences. A theatre production designed for touring will be performed at area schools and other community sites. __Credit Hours: 3 hrs__
_Prerequisites: department permission is required__

CTAR 557 - Audition Techniques for the Actor
Review of the literature and personalized preparation of materials and techniques equipping the actor to better confront tryouts and auditions for the commercial and noncommercial theatre. __Credit Hours: 2 hrs__

CTAR 558 - Directing Styles
The theory and practice of directing selected
periods of drama, with emphasis on Greek, Elizabethan, Restoration, modern and non-Western presentational forms. __Credit Hours: 2 hrs

CTAR 562 - American Theatre History
A tracing of the main currents in the history of the American theatre from its beginnings in the middle 1700s to the present day. __Credit Hours: 2 hrs _Prerequisites: CTAR450 and CTAR451, or equivalent

CTAR 565 - Studies in Drama/Theatre for the Young
Studies in the history, theory and techniques of drama and theatre for/with the young. __Credit Hours: 2 hrs _Prerequisites: CTAR323 or CTAR501 or CTAR657, and either CTAR322 or CTAR658

CTAR 568 - Musical Theatre Performance Techniques
The course is designed for knowledgeable actors who are beginning work with musical theatre literature. The emphasis is on workshop experience to develop techniques for performing songs. __Credit Hours: 2 hrs

CTAR 590 - Special Topics
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or qualified senior in communication and theatre arts

CTAR 592 - Special Topics
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or qualified senior in communication and theatre arts

CTAR 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAR 598 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAR 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

CTAR 606 - Colloquium in Communication and Theatre Arts
Students will study a special topic area with resource persons from the community as well as members of the Communication, Media and Theatre Arts. __Credit Hours: 1 hr _Prerequisites: department permission

CTAR 608 - Colloquium in Communication and Theatre Arts
Students will study a special topic area with resource persons from the community as well as members of the Communication, Media and Theatre Arts. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAR 627 - The Playwright and the Young Audience
A study of dramatic literature for the young, from developmental as well as artistic viewpoints, and in contexts of the main body of dramatic literature and children’s literature, and the total educational experience of children and adolescents. __Credit Hours: 3 hrs

CTAR 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

CTAR 651 - Design I
Intermediate consideration of the theoretical and mechanical factors governing the design of scenery for the stage. __Credit Hours: 2 hrs

CTAR 657 - Improvisation
A study of spontaneous dramatic play meant to develop deeper self-discipline and freedom and to extend resources for teaching, directing and acting. __Credit Hours: 3 hrs _Prerequisites: graduate standing in communication and theatre arts
CTAR 658 - Theatre for Children
An extensive study of the nature and range of theatre experiences for children and adolescents. __Credit Hours: 3 hrs _Prerequisites: graduate standing in communication and theatre arts

CTAR 660 - Playwriting I
Intermediate study of the approaches to, and the structural composition of, dramatic writing. __Credit Hours: 2 hrs

CTAR 661 - Playwriting II
A continuation of CTAR660. __Credit Hours: 2 hrs _Prerequisites: CTAR660

CTAR 662 - Lighting
A continuation of CTAR362 Stage Lighting. __Credit Hours: 2 hrs _Prerequisites: CTAR362 or equivalent

CTAR 663 - Costume I
Intermediate study of the approaches to, and the historical sources for, stage costuming. __Credit Hours: 2 hrs

CTAR 664 - Costume II
Problems of construction and design of period costumes for the stage, with emphasis on practical application culminating in a final design and construction project. __Credit Hours: 2 hrs

CTAR 666 - Drama Theatre for the Young Internship
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. __Credit Hours: 1 hr _Prerequisites: department permission

CTAR 671 - Drama Theatre for the Young Internship
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. __Credit Hours: 2 hrs _Prerequisites: department permission

CTAR 672 - Drama Theatre for the Young Internship
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. __Credit Hours: 3 hrs _Prerequisites: department permission

CTAR 673 - Research Techniques
An introduction to the nature and value of research; the research problem; basic research tools; philosophical foundations of historical, descriptive and experimental research; professional writing. __Credit Hours: 2 hrs

CTAR 677 - Research Techniques
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

CTAR 679 - Special Topics
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: department permission

CTAR 680 - Special Topics
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: department permission

CTAR 681 - Special Topics
Students will investigate a particular topic approved by the Department of Communication, Media and Theatre Arts. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAR 682 - Workshop in Communication and Theatre Arts
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAR 683 - Workshop in Communication and Theatre Arts
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAR 684 - Workshop in Communication and Theatre Arts
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAR 685 - Workshop in Communication and Theatre Arts
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTAR 686 - Cooperative Education in Arts Management
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.
CTAR 687 - Cooperative Education in Arts Management
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAR 688 - Cooperative Education in Arts Management
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAR 690 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAR 691 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAR 692 - Degree Requirement
A research-oriented study conducted under the supervision of a departmental faculty committee. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

CTAR 693 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. __Credit Hours: 2 hrs __Prerequisites: department permission

CTAR 694 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. __Credit Hours: 2 hrs __Prerequisites: department permission

CTAR 695 - Seminar in Communication and Theatre Arts
A research-oriented course for graduate majors in communication and theatre arts. __Credit Hours: 3 hrs __Prerequisites: department permission

CTAR 697 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

CTAR 698 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

CTAR 699 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

Electronic Media and Film

CTAT 537 - Mass Communications
A comparative study of the mass media in the United States; their development, function and import. Special emphasis will be placed on the process and effects of mass communication with detailed study of radio and television. __Credit Hours: 2 hrs __Prerequisites: department permission

CTAT 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAT 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAT 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

CTAT 595 - Workshop in Broadcasting and Film
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs __When Offered: Offered on a credit/no-credit basis.

CTAT 597 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 1 hr __Prerequisites: department permission __Repeatable: May be repeated for credit.

CTAT 598 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 2 hrs __Prerequisites: department permission
CTAT 599 - Independent Study
Advanced study on an individual basis in areas not covered, or not covered in depth, in formal course work. __Credit Hours: 3 hrs __Prerequisites: department permission __Repeatable: May be repeated for credit.

CTAT 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

CTAT 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

CTAT 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

CTAT 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.

CTAT 686 - Cooperative Education in Telecommunication and Film
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 1 hr __Prerequisites: approval by Cooperative Education Office and the department __When Offered: Offered on a credit/no-credit basis.

CTAT 687 - Cooperative Education in Telecommunication and Film
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 3 hrs __Prerequisites: approval by Cooperative Education Office and the department __When Offered: Offered on a credit/no-credit basis.

CTAT 688 - Cooperative Education in Telecommunication and Film
One semester of supervised educational work in communication and theatre arts. An evaluation is required at the end of each employment period. __Credit Hours: 2 hrs __Prerequisites: approval by Cooperative Education Office and the department __When Offered: Offered on a credit/no-credit basis.

CTAT 689 - Internship in Telecommunication and Film
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. __Credit Hours: 4 hrs __Prerequisites: department permission

CTAT 697 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

CTAT 699 - Independent Study
An intensive study of one or more problems under the direction of a faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

Career, Technical and Workforce Education

CTWE 504 - Career Exploration and Preparation
Practical applications of experience-based career education will be examined as related to secondary school industrial education. Field visitations and public school resource personnel will illustrate to the experienced teacher practical applications of the exploratory and preparatory concepts of career education. Also open to departmental majors __Credit Hours: 2 hrs

CTWE 520 - Current Issues in Marketing Education
Major contemporary issues in marketing education will be identified, researched and discussed. Potential issues emanating from social, economic and political forces will be addressed. Position and reaction papers will be developed. __Credit Hours: 2 hrs

CTWE 524 - Microcomputers in Business Education
Hands-on experience using software with applications for classroom management (such as grade records and test banks) and classroom instruction (such as simulation). __Credit Hours: 2 hrs __Prerequisites: graduate standing; senior standing (2.5 GPA) with permission of department and Graduate School

CTWE 525 - International Business Education
Study of global factors that influence business education curricula, and an analysis
of comparative curricula of several countries. __Credit Hours: 2 hrs __Prerequisites: May involve experiences in foreign environment, including attendance at annual ISBE/SIEC conferences.

CTWE 526 - Basic Business and Economic Education for Teachers
This course is designed to prepare teachers for the task of teaching economic education. Topics will include scarcity, choices and incentives, fiscal and monetary policy, competition, role of government, business models and foreign exchange rates. __Credit Hours: 3 hrs __Prerequisites: six hours of economics or department permission

CTWE 530 - Technology in the Workplace
The applications of technology in business, industrial and service institutions will be viewed through a series of field visitations. Implications for educational programs that prepare employees for those institutions will be defined. __Credit Hours: 2 hrs __Prerequisites: technology education major or graduate standing

CTWE 551 - Philosophy of Technology Education
Philosophical viewpoints concerning technology education and industrial-vocational education; historical development and philosophical justification of modern programs. __Credit Hours: 3 hrs

CTWE 560 - Entrepreneurship Education
Provides orientation to the entrepreneurial process and development of a philosophical base for teaching. Curriculum and methods appropriate to the participants' school setting are identified. Plans for implementation are designed. __Credit Hours: 2 hrs

CTWE 568 - Coordination of Cooperative Education Programs
Analyzes the duties and responsibilities of the cooperative education coordinator. Focus on human and public relations, related instruction and program development. Required for all potential coordinators, school administrators and vocational teacher education students. __Credit Hours: 2 hrs

CTWE 569 - Foundations of Business Education
The historical, economic, sociological and psychological foundations of business education. The course focuses on basic business, vocational business and vocational marketing, and the forces, including legislation, that shape instruction and curriculum developments in these areas. In addition to the foundations, students will formulate a professional development plan and a statement of educational philosophy. __Credit Hours: 3 hrs

CTWE 587 - Cooperative Education in Business Education
A cooperative education experience integrating classroom theory with a paid work experience in an area related to the student's field of study. Work sites must be approved by the coordinator of Cooperative Education and the Business and Technology Education Department. Additional assignments may be required. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no credit basis.

CTWE 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

CTWE 594 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 1 hr

CTWE 595 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 1 hr

CTWE 596 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 1 hr

CTWE 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

CTWE 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

CTWE 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

CTWE 607 - Colloquium
A series of academic meetings led by a specialist on topics pertinent to graduate students concerning theory and/or practice in career, technical and workforce education. __Credit Hours: 2 hrs

CTWE 611 - Curriculum Frameworksin Career, Technical and Workforce Education
This course emphasizes the social, political and economic factors influencing design and revision of curriculum in special programs such as Tech Prep and School-to-Work, as they impact technological literacy in the workplace, are addressed. __Credit Hours: 3 hrs

CTWE 614 - Advanced Approaches to Marketing Education Curriculum and Instruction
Advances in (a) curriculum, (b) methods, (c) DECA, (d) school store and (e) co-op will be evaluated. Plans, procedures and products will be developed for implementation and utilization. Emphasis will be on areas of primary concern to enrollees. __Credit Hours: 2 hrs

CTWE 639 - Continuous Enrollment
Graduate students who are completing research (master's or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

CTWE 651 - Administration of Vocational-Technical Education
Focuses on the legislation, programs, planning and regulations that are unique to vocational education and to the administrative functions that are directly related. Recommended for school administrators and vocational teacher education students. __Credit Hours: 2 hrs

CTWE 660 - Colloquium
A series of academic meetings led by a specialist on topics pertinent to graduate students concerning theory and/or practice in career, technical and workforce education. __Credit Hours: 2 hrs

CTWE 661 - Evaluation Standards and Strategies in Career, Technical and Workforce Education
This course is concerned with standards and strategies of student and program evaluation as they relate to assessing technological literacy in career, technical and workforce education. The challenge inherent in evaluating special programs such as Tech Prep and School-to-Work will be addressed. __Credit Hours: 3 hrs

CTWE 665 - Trends and Administration in Career, Technical and Workforce Education
This course will focus on changes in career, technical and workforce education affecting business and technology education programs. Issues will include the areas of Legislation, recruitment, employment, curriculum, administration and funding. __Credit Hours: 3 hrs

CTWE 678 - Research in Business and Technology Education
A review of basic research techniques applied to business, marketing and technology education areas. Studies are analyzed in light of research processes and conclusions. Students become involved in the design and application of research methodology to projects appropriate to classrooms. __Credit Hours: 3 hrs

CTWE 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

CTWE 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

CTWE 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

CTWE 682 - Workshop
Modern methods, procedures and materials for improving the effectiveness of the classroom teacher in the areas of shorthand, typewriting, bookkeeping and basic business. __Credit Hours: 1 hr

CTWE 683 - Workshop
Modern methods, procedures and materials for improving the effectiveness of the classroom teacher in the areas of shorthand, typewriting, bookkeeping and basic business. __Credit Hours: 2 hrs

CTWE 690 - Thesis
Intensive research into a problem in business or marketing education under the direct supervision of a graduate faculty member. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis

CTWE 691 - Thesis
Intensive research into a problem in business or marketing education under the direct supervision of a graduate faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.
CTWE 692 - Thesis
Intensive research into a problem in business or marketing education under the direct supervision of a graduate faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CTWE 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

CTWE 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

CTWE 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

Curriculum

CURR 304 - Curriculum and Methods: Elementary
The concept of curriculum and its relationship to differing philosophies of education and styles of teaching. The instructional process and multiple teaching strategies examined and applied through lesson planning and demonstration. Social studies content used in lesson planning by students seeking elementary certification. Classroom management principles and techniques considered in the light of a curriculum and instruction perspective. Includes a planned practicum experience in public schools in addition to the regularly scheduled hours. _Credit Hours: 3 hrs _Prerequisites: EDPS322 or EDPS325; admission to the teacher education program

CURR 305 - Curriculum and Methods: Secondary
The concept of curriculum and its relationship to differing philosophies of education and styles of teaching. The instructional process and multiple teaching strategies examined and applied through lesson planning and demonstration. Classroom management principles and techniques considered in the light of a curriculum and instruction perspective. Includes a planned practicum experience in public schools in addition to the regularly scheduled hours. _Credit Hours: 3 hrs _Prerequisites: EDPS322 or EDPS325; admission to the teacher education program

CURR 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. _Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

CURR 501 - Developing Creativity in the Classroom
Helps teachers plan activities that encourage creativity in students. Emphasizes the direct teaching of creative thinking skills, developing a supportive classroom atmosphere and enhancing the teacher's personal creativity. _Credit Hours: 2 hrs

CURR 502 - The Pedagogy of Group Learning
The course presents a variety of methods for using groups and social learning in classrooms. The methods include, among others, cooperative learning, group investigation, simulation and role-playing. Theory, practice, application, evaluation and critical analysis of the methods will be stressed. _Credit Hours: 2 hrs

CURR 503 - Enriching the Elementary Classroom Program
This course is designed to help teachers use a variety of techniques to develop materials and strategies for classroom enrichment. Reinforcement and extension activities using application projects, exploratory activities, interdisciplinary connections and independent learning strategies will be included. _Credit Hours: 2 hrs

CURR 504 - School and Classroom Discipline
This course will review case studies, general teacher practices and the theoretical base for classroom and school discipline management. Additionally, there will be a review and critique of emerging legal issues, information systems and programs that affect discipline. _Credit Hours: 2 hrs

CURR 505 - Education of the Gifted Child
The identification of gifted pupils; the use of test results, psychological services and cumulative records. Curricula stressing enrichment and acceleration and the use of community resources; of special value to classroom teachers. _Credit Hours: 2 hrs

CURR 506 - Special Topics
Credit Hours: 1 hr _Prerequisites: department permission

CURR 507 - Special Topics
Credit Hours: 2 hrs _Prerequisites: department permission

CURR 508 - Special Topics
Credit Hours: 3 hrs _Prerequisites: department permission

CURR 509 - Workshop
Students will be provided practical and theoretical study in a selected topic area. _Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

CURR 590 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

CURR 591 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

CURR 607 - Colloquium
Credit Hours: 2 hrs

CURR 616 - Issues in Elementary School Curriculum
Issues involving curriculum-development determinants and approaches, and the concept of change. Emphasis is on the role of the teacher in curriculum development. __Credit Hours: 3 hrs

CURR 618 - Middle Level Education: Theory and Practice
This course provides the background in the philosophy and history of middle-level education, and examines curriculum and instruction particular to the unique developmental needs of pre-adolescents. __Credit Hours: 3 hrs

CURR 620 - Issues in Middle Level Curriculum
This course focuses on the curricular implications of issues which address responsive middle grades program components and curriculum. Emphasis is placed on developmental and cultural appropriateness, and collaboration with students, colleagues, the family and the community. __Credit Hours: 3 hrs

CURR 622 - Effective Teaching in Middle Level Education
Focuses on instructional aspects of programs and classrooms in middle schools that are appropriate for the developmental needs of pre-adolescents. Included are interdisciplinary curricula, scheduling, adviser/advisee programs, instructional methods and materials, teaming, affective outcomes and classroom management. __Credit Hours: 3 hrs

CURR 623 - Individualizing Instruction in the Secondary School
A course designed to help secondary teachers meet individual differences among their students by using a variety of resources, pupil involvement, thematic approaches and other teaching strategies. __Credit Hours: 2 hrs

CURR 630 - Issues in Secondary School Curriculum
Students are encouraged to concentrate on curriculum problems in their schools involving issues of development, revision and change in the secondary school. __Credit Hours: 3 hrs

CURR 632 - Individualizing Instruction in the Secondary School
A course designed to help secondary teachers meet individual differences among their students by using a variety of resources, pupil involvement, thematic approaches and other teaching strategies. __Credit Hours: 2 hrs

CURR 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

CURR 650 - Improving Instruction through Inquiry and Assessment
This course emphasizes the continued growth of the classroom teacher and the exercise of effective, culturally responsive instruction through an examination of student’s learning, processes, perceptions and patterns or development. Action research methodologies, developmental theory, critical theory and analysis of student work samples help frame an understanding of students. __Credit Hours: 3 hrs _Prerequisites: CURR653; admission to the College of Education

CURR 652 - Introduction to Urban/Diversity Education
This course constructs the framework for urban and diversity education studies through its examination of the emergence and transformation of urban teaching and its institutions. Critiqued through social, sociocultural, political and economic lenses, the history of politics in education will frame a discussion of equity, voice, marginalization and resilience in the classroom. __Credit Hours: 2 hrs _Prerequisites: students must admitted to the College of Education and be in the Masters in Urban/Diversity Education program _Corequisite: _CURR653

CURR 653 - Introduction to Curriculum Portfolios
This is a prerequisite to all other coursework in all curriculum and instruction masters degrees. Issues of standards, artifact collection, critical reflection, variety of portfolios, models of instruction and assessment as well as examined professional growth will provide the necessary background for the successful completion of the capstone experiences. __Credit Hours: 1 hr _Prerequisites: students admitted to the College of Education and enrolled in one of the following programs: Masters in Middle Level Education; Masters of Urban/Diversity Education; Masters in Elementary Education; Masters in Secondary Education; Masters in Urban/Diversity Education/In Curriculum and Instruction _Corequisite: _CURR652

CURR 654 - Multicultural Teaching and Learning
This course provides a critical framework in which to examine and develop skills and understandings necessary for teaching in a multicultural world. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with SOFD654.

CURR 655 - Curriculum Foundations
This course provides the background for a teacher/curriculum worker must have to examine, analyze, interpret and evaluate curriculum programs, proposals and curricular decisions. The course will address historical, economic, political, cultural, intellectual, social and personal forces which influence contemporary curriculum and professional ideologies which shape classroom decisions. __Credit Hours: 3 hrs _Prerequisites: CURR653; admission to the College of Education
CURR 656 - Curriculum Design, Implementation and Evaluation

This course hones curriculum workers' skills and knowledge in designing, implementing and evaluating curriculum plans and programs, in designing in-service sessions, in writing curriculum papers and reports, and in evaluating projects. This work is framed by today's school climate that is influenced by political cultural, social, racial, ethnic and economic factors. __Credit Hours: 3 hrs _Prerequisites: CURR653

CURR 657 - The Open Classroom

The open classroom tied to a demonstration center, planning an integrated day based upon learning centers and pupil self-direction, the child-centered experience-based curriculum. Designed to help free teachers to become more innovative, open, creative and human in curriculum development. __Credit Hours: 4 hrs

CURR 660 - Assisting Student Teachers and New Teachers

This course is designed for teachers who are employed as clinical faculty, student teaching supervisors, cooperating teachers and mentor teachers. It develops teachers' awareness of their own reflective decision-making through action research, discussions and simulations. The course also presents a framework for assessing student teachers' development. Finally, teachers practice and analyze coaching and problem-solving strategies for promoting reflective decision-making. __Credit Hours: 2 hrs

CURR 663 - Effective Partnership Strategies for Secondary Schools

This course is designed to develop students' reflective thinking by examining current critical issues that affect and help shape education in American schools. Students will examine complex issues from multiple perspectives and through the degree-required Masters Focus Paper, develop new knowledge adding to the current debates/practices such as equity and diversity, technology, change, educational reform and curriculum development determinants. __Credit Hours: 2 hrs _Prerequisites: CURR652; CURR653

CURR 664 - Multicultural Curriculum Development

The purpose of this course is to further develop participants' multicultural skills and understandings through readings, class discussion, simulation and self-critique, as well as through the examination, analysis and creation of curricular and multicultural materials. __Credit Hours: 3 hrs _Prerequisites: CURR652; CURR653; admission to the College of Education

CURR 665 - Differentiation in the Classroom

The course is designed to provide the knowledge and skills, concepts and dispositions necessary for differentiating curriculum to meet the needs of all students in the mixed-ability classroom. __Credit Hours: 3 hrs _Prerequisites: CURR652; CURR653; admission to the College of Education

CURR 666 - Multicultural Curriculum Development Strategies

This course emphasizes classroom inquiry for practitioners. Teachers explore autobiography, multiple and personal voices, and narratives in context. Readings and projects connect teachers' own agenda with school change and environment. __Credit Hours: 2 hrs

CURR 667 - Teacher as Intellectual Inquirer

This course is designed to develop students' cultural competency and multicultural teaching skills to create culturally responsive classrooms with learning environments where all students feel safe, affirmed and nurtured. __Credit Hours: 3 hrs _Prerequisites: CURR652; CURR653

CURR 669 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

CURR 670 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

CURR 673 - Curriculum and Teaching Strategies for the Gifted and Talented

Study of curricular options and teaching models, and strategies appropriate for the differentiated learning needs of gifted/talented students. __Credit Hours: 2 hrs

CURR 674 - Creating Culturally Responsive Classrooms

The purpose of this class is to further develop students' cultural competency and multicultural teaching skills to create culturally responsive classrooms with learning environments where all students feel safe, affirmed and nurtured. __Credit Hours: 3 hrs

CURR 675 - Eastern Michigan Writing Project Summer Institute

For practicing K-12 teachers across disciplines. Participants investigate and experience current practices in literacy instruction. Based upon National Writing Project assumptions, participants read, write and reflect upon their teaching. __Credit Hours: 5 hrs _Prerequisites: department permission _Cross-listed: This course is cross-listed ENGL675

CURR 676 - Education of the Gifted and Talented: Underrepresented Populations

Examines barriers that cause underrepresentation of student populations in gifted programs. Discusses identification and programming strategies for gifted students with disabilities, underachieving students and students from diverse cultural groups. __Credit Hours: 2 hrs

CURR 679 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr

CURR 680 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs

CURR 681 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs
CURR 682 - Workshop in Curriculum
Credit Hours: 1 hr

CURR 683 - Workshop in Curriculum
Credit Hours: 2 hrs

CURR 684 - Workshop in Curriculum
Credit Hours: 3 hrs

CURR 685 - Workshop in Curriculum
Credit Hours: 4 hrs

CURR 686 - Internship in Teacher Education
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by program adviser prior to registration. __Credit Hours: 1 hr __Prerequisites: department permission

CURR 687 - Internship in Teacher Education
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by program adviser prior to registration. __Credit Hours: 2 hrs __Prerequisites: department permission

CURR 688 - Internship in Teacher Education
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by program adviser prior to registration. __Credit Hours: 3 hrs __Prerequisites: department permission

CURR 689 - Thesis/ Curriculum Project
This course is designed to be the culmination of master degree programs in elementary, middle school or secondary curriculum. Students must have a thesis/project proposal approved by a faculty committee before registering. __Credit Hours: 1 hr __Prerequisites: department permission

CURR 690 - Thesis/ Curriculum Project
This course is designed to be the culmination of master degree programs in elementary, middle school or secondary curriculum. Students must have a thesis/project proposal approved by a faculty committee before registering. __Credit Hours: 2 hrs __Prerequisites: department permission

CURR 691 - Thesis/ Curriculum Project
This course is designed to be the culmination of master degree programs in elementary, middle school or secondary curriculum. Students must have a thesis/project proposal approved by a faculty committee before registering. __Credit Hours: 3 hrs __Prerequisites: department permission

CURR 692 - Thesis/ Curriculum Project
This course is designed to be the culmination of master degree programs in elementary, middle school or secondary curriculum. Students must have a thesis/project proposal approved by a faculty committee before registering. __Credit Hours: 4 hrs __Prerequisites: department permission

CURR 693 - Seminar: Common Learnings
Students will review the major domains of knowledge they will encounter on the comprehensive examination through participating in individual and study-group research. __Credit Hours: 1 hrs

CURR 694 - Seminar: Common Learnings
Students will review the major domains of knowledge they will encounter on the comprehensive examination through participating in individual and study-group research. __Credit Hours: 2 hrs

CURR 695 - Seminar: Elementary School Curriculum
Students in elementary-level education program plan and prepare proposals for the culminating thesis/project. __Credit Hours: 1 hr

CURR 696 - Seminar: Elementary School Curriculum
Students in elementary-level education program plan and prepare proposals for the culminating thesis/project. __Credit Hours: 2 hrs __Prerequisites: department permission

CURR 697 - Seminar: Secondary Curriculum
Students in secondary-level education program plan and prepare proposals for the culminating thesis/project. __Credit Hours: 1 hrs

CURR 698 - Seminar: Secondary Curriculum
Students in secondary-level education program plan and prepare proposals for the culminating thesis/project. __Credit Hours: 2 hrs __Prerequisites: Must be done with approval of a full-time member of the faculty.

CURR 699 - Seminar: Secondary Curriculum
Students in secondary-level education program plan and prepare proposals for the culminating thesis/project. __Credit Hours: 3 hrs __Prerequisites: Must be done with approval of a full-time member of the faculty.

CURR 780 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: Must be done with approval of a full-time member of the faculty.

CURR 781 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: Must be done with approval of a full-time member of the faculty.

Decision Science

DS 265 - Business Statistics I
Concepts of statistics and applications to business decisions. Elements of probability,
random samples, descriptive statistics, sampling distributions, point and interval estimation, hypothesis testing, chi-square analysis and regression and correlation analysis. _Credit Hours: 3 hrs _Prerequisites: IS215 and MATH118 or MATH120.

DS 501 - Introductory Probability and Statistics for Business
The development of fundamental probability concepts and statistical techniques emphasizing their applications to business decision making. Includes the study of probability distributions, sampling, point and interval estimation, and hypothesis testing. _Credit Hours: 3 hrs _Prerequisites: MATH118/119 or equivalent

DS 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission

DS 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

DS 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

DS 597 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

DS 598 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

DS 599 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

DS 602 - Business Research Methods
Statistics as a tool to assist in business decision making is emphasized. Computer software, data sets and written reports are utilized extensively. Techniques in the collection and analysis of data include: confidence intervals; hypothesis tests; linear regression, including dummy variables; analysis of variance; and survey design/analysis. _Credit Hours: 3 hrs _Prerequisites: DS265 or virtual test score; and DS501

DS 605 - Economics of Strategy
This course develops an economic framework for analyzing strategic decisions of the firm, relying on microeconomic principles, industrial organization, game theory and behavioral economics. Topics include the analysis of firm boundaries; market and competitive analysis (strategic commitment, pricing, barriers to entry and exit) and strategic positioning for competitive advantage. Admission to the MBA program is required. _Credit Hours: 3 hrs _Prerequisites: ACC501, ECON500, FIN502, LAW503, MKTG510, OM503, MGMT505, MGMT600, DS602, MGMT604 and IS605 _Concurrent Prerequisite: IS605

DS 697 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

DS 699 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

DS 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

DS 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

DS 697 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

DS 699 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission
DS 698 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. Credit Hours: 2 hrs
Prerequisites: department permission

DS 699 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. Credit Hours: 3 hrs
Prerequisites: department permission

Human Nutrition

DTC 500 - Research Design and Methods
Study of designs and methods utilized in understanding and conducting research. Credit Hours: 2 hrs

DTC 509 - Nutrition Support
Advanced study in the science and practice of nutrition support; application of selection of candidates, delivery methods, equipment and formulas for enteral and parenteral nutrition; how to initiate, manage and assess outcomes of care; analysis of considerations that must be given in specific disease states. Credit Hours: 3 hrs

DTC 518 - Interdisciplinary Team Functions
Exploration of the purpose, structure and functions of interdisciplinary health care teams. Application of decision-making process; integration of professional values and ethics. Credit Hours: 3 hrs

DTC 531 - Nutrition Therapy I Experience
Supervised practice experience in the clinical nutrition professional environment. Credit Hours: 2 hrs

DTC 538 - Outcomes Management
Students will explore how to construct a question to select the right data to measure thereby informing their practice. Students will understand outcomes management as a process that both informs and is informed by evidence-based practice. Credit Hours: 3 hrs

DTC 551 - Food Systems Management I Experience
Application of basic components of an operating quantity food service. Supervised practice experience. Credit Hours: 2 hrs
Prerequisites: DTC251 Corequisite: DTC350

DTC 571 - Nutrition Therapy II Experience
Supervised clinical and ambulatory site-based practice experiences in the clinical nutrition professional environment. Credit Hours: 4 hrs
Prerequisites: DTC531 and department permission Corequisite: DTC370

DTC 587 - Cooperative Education in Dietetics
Provides practical experience in the student’s concentration for four to six months of full-time employment with an individual employer. May not be used on 30-hour program plan for the master’s degree. Credit Hours: 3 hrs
Prerequisites: department permission When Offered: Offered on a credit/no-credit basis.

DTC 590 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. Credit Hours: 1 hr
Prerequisites: department permission

DTC 592 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. Credit Hours: 3 hrs
Prerequisites: department permission

DTC 597 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 1 hr
Prerequisites: department permission

DTC 598 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 2 hrs
Prerequisites: department permission

DTC 599 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. Credit Hours: 3 hrs
Prerequisites: department permission

DTC 600 - Research I
Application of the research process through development of a research project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the research project report. Credit Hours: 2 hrs
Prerequisites: DTC500 and MATH592

DTC 607 - Colloquium
Academic seminars centered around the field of nutrition and involving lecturers from within and outside the program. Examine the current schedule book for specific offerings. Credit Hours: 2 hrs

DTC 608 - Advanced Topics in Foods
Analysis of selected advanced topics in food science with application to current issues of practice. Credit Hours: 3 hrs
Prerequisites: DTC251 or equivalent

DTC 591 - Special Topics
DTC 618 - Advanced Topics in Nutrition
Analysis of selected advanced topics in human nutrition with application to current issues of practice. __Credit Hours: 3 hrs __Prerequisites: DTC302

DTC 628 - Medical Nutrition Therapy
Students will explore the role of nutrition therapy to treat a variety of disease states. Time will be spent on advanced application and on motivational interviewing to enhance patient compliance. __Credit Hours: 3 hrs

DTC 631 - Nutrition Therapy III Experience
Supervised practice experience in a variety of community settings with emphasis on nutrition education techniques and the operation of federal, state and local nutrition programs. __Credit Hours: 4 hrs

DTC 638 - Cultural Nutrition and Nutritional Ecology
Critical investigation of beliefs, cultural values and consequent behaviors with an emphasis on how they impact nutritional status. Examination of issues in the political, physical and social environments that impact the availability of food and nutrients in the United States' food supply. __Credit Hours: 3 hrs

DTC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

DTC 648 - Methods and Strategies for Community-Based Nutrition Services
Analysis of advanced topics in community nutrition including identification of community problems, needs and resources; planning, implementation and evaluation of programs and communication skills in nutrition education. Department permission is required for non-Human Nutrition majors. __Credit Hours: 3 hrs __Prerequisites: DTC430 or equivalent

DTC 650 - Research II
Presentation of culminating experience with emphasis on oral and written methods and skill development. Focus is on research project oral presentation and preparation of a poster presentation and a manuscript. __Credit Hours: 1 hr __Prerequisites: DTC695

DTC 651 - Food Systems Management II Experience
Administrative functions of food service departments such as assessing, planning, decision-making, evaluating and training. Communication, stress control and behavior management. Supervised practice experience. __Credit Hours: 4 hrs __Prerequisites: department permission

DTC 658 - Nutrition and Aging
Application of the life course principles to the understanding of nutrition needs and factors affecting the health and well-being of the aging and aged. Department permission is required for students not in the Human Nutrition or Gerontology programs. __Credit Hours: 1 hr __Prerequisites: department permission

DTC 659 - Development of the Entrepreneurial Dietitian
Advanced analysis of the process used by successful dietitians in the pursuit of an entrepreneurial career path. Focus will be on tools, techniques and resources necessary for both the experienced and entry-level practitioner. Department permission is required for students not in the Human Nutrition program. __Credit Hours: 3 hrs __Prerequisites: department permission

DTC 668 - Proteins, Lipids and Carbohydrates
Investigation of the macronutrients and their properties, functions and appropriate contribution to energy and growth requirements in healthy and diseased people. __Credit Hours: 3 hrs

DTC 669 - Vitamins and Minerals
Emphasis on interrelationships of minerals and vitamins in human metabolism. __Credit Hours: 3 hrs __Prerequisites: DTC302

DTC 671 - Nutrition Therapy IV Experience
Supervised practice experience in the medical nutrition therapy professional environment. Focus is on complicated disease states and the management of enteral and parental nutrition regimens. __Credit Hours: 4 hrs __Prerequisites: department permission

DTC 679 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization area of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

DTC 680 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization area of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

DTC 681 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization area of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission
DTC 683 - Workshop
Examine the current schedule book for specific workshop topics. __Credit Hours: 2 hrs __Prerequisites: department permission

DTC 686 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 1 hr __Prerequisites: department permission

DTC 687 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 2 hrs __Prerequisites: department permission

DTC 688 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 3 hrs __Prerequisites: department permission

DTC 689 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 4 hrs __Prerequisites: department permission

DTC 690 - Thesis I
Application of the research process through development of a thesis project proposal for the culminating experience of the students graduate program of study. Focus will be on writing chapters 1-3 of the thesis. __Credit Hours: 1 hr __Prerequisites: DTC500 and MATH592

DTC 691 - Thesis II
Execution of a research project and preparation of thesis as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the thesis. __Credit Hours: 2 hrs __Prerequisites: DTC691 and department permission

DTC 692 - Thesis III
Presentation of thesis research with emphasis on oral and written methods and skill development. Focus is on thesis defense and preparation of a poster presentation and manuscript. __Credit Hours: 3 hrs __Prerequisites: DTC692 and department permission

DTC 695 - Research III
Execution of a research project and preparation of a written report as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the research project report. __Credit Hours: 3 hrs __Prerequisites: DTC692 and department permission

DTC 697 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 1 hr __Notes: Must be done with approval of a full-time member of the faculty.

DTC 698 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 2 hrs __Notes: Must be done with approval of a full-time member of the faculty.

DTC 699 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 3 hrs __Notes: Must be done with approval of a full-time member of the faculty.

ECE 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs __Prerequisites: department permission

ECE 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs __Prerequisites: department permission

ECE 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs __Prerequisites: department permission

ECE 597 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 1 hr __Notes: Must be done with approval of a full-time member of the faculty.

ECE 598 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 2 hrs __Notes: Must be done with approval of a full-time member of the faculty.

ECE 599 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 3 hrs __Notes: Must be done with approval of a full-time member of the faculty.

ECE 600 - Trends and Issues in Early Childhood Education
Study of the historical base of early childhood education, exploration of current
trends and issues related to the care and education of children from birth through age eight. Examination of research on issues affecting young children, their families and society. __Credit Hours: 2 hrs

**ECE 601 - Helping Young Children in Crisis Through Curricular Activities**
Investigates how stress and crisis affect young children. Examines theory and research related to violence in home and community, maltreatment, death, divorce, parental substance abuse, inadequate health care and housing. Explores specific curriculum strategies to help children develop resiliency. __Credit Hours: 2 hrs

**ECE 602 - Implementing Appropriate Early Childhood Programs**
Overview of program models and teaching strategies appropriate for children birth through age eight. Critical examination of developmentally appropriate practice, investigation of program goals guidance and management approaches, schedules, learning environments, sure of technology and inclusions of diverse children. __Credit Hours: 2 hrs

**ECE 603 - Professional Development in Early Childhood Education**
This course is designed for teachers, program directors and school principals in early childhood settings to learn about themselves as professional leaders and to develop communication skills and strategies that assist in staff development and the supervision of other adults. __Credit Hours: 2 hrs

**ECE 604 - Directing a Child Care Program**
In-depth study of directing a child care program including determination of need, legal requirements, selection of equipment and personnel, budgeting, record keeping, working with families and community, and implementation of program goals. __Credit Hours: 2 hrs__Prerequisites: ECE 602 or instructor’s permission

**ECE 610 - Family, School and Community Partnerships in Early Childhood Education**
Examines the impact of partnerships among families, schools and communities on the education of young children. Course will focus on four broad themes: needs of families; parenting styles; diversity of families; and models of family, school and community involvement. __Credit Hours: 2 hrs

**ECE 613 - Curriculum Frameworks in Early Childhood**
This course provides an in-depth examination of the curriculum frameworks and standards in early childhood education. Materials from national early childhood and subject area organizations will be analyzed. Appropriate curriculum for children from birth through eight years, including those with special needs and from diverse cultures, will be investigated. __Credit Hours: 2 hrs

**ECE 615 - Social Relationships and Competence in Early Childhood Settings**
This course provides an in-depth examination of young children’s social/emotional development, self-esteem and feelings of competence. Students will study theories, principles and strategies, as well as adult roles and special problems of children’s behavior. Applications will be made to early childhood and elementary education. __Credit Hours: 2 hrs

**ECE 618 - Play and Human Development**
The phenomena of children’s play and its relationships to developmental processes will be examined. Definitions, perspectives, theories and their implications for classroom practice in early childhood and elementary education will be considered. Observations and analyses of live play episodes will be conducted by the students. __Credit Hours: 2 hrs

**ECE 639 - Continuous Enrollment**
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr__Prerequisites: department permission __When Offered: Course is offered on a credit/no-credit basis

**ECE 641 - Developmental Assessment of the Young Child: Theory and Practice**
Theory and procedures applicable to the evaluation and assessments of the young child and current issues. __Credit Hours: 2 hrs

**ECE 679 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr__Prerequisites: department permission

**ECE 680 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs__Prerequisites: department permission

**ECE 681 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs__Prerequisites: department permission

**ECE 693 - Seminar: Early Childhood Education**
Course includes a systematic analysis of issues and research areas in early childhood education. Serves as the capstone experience in the master’s degree in early childhood
education. Students pursue an in-depth investigation of a topic related to the field. __Credit Hours: 2 hrs __Prerequisites: 24 credit hours in early childhood education M.A. program and department permission

ECE 697 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 1 hr __Notes: Must be done with approval of a full-time member of the faculty.

ECE 698 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECE 699 - Independent Study
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. __Credit Hours: 3 hrs __Prerequisites: Level 3 math placement or above, or MATH098 or above.

ECON 405 - Economic Analysis for Business
Analytical tools and methods of economic theory used in business management, focusing on production, cost, pricing and investment. Application includes demand estimation and economic forecasting. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 406 - History of Economic Thought
A review of the development of economic thought from the age of mercantilism to present times, with the particular emphasis on landmark contributions of writers such as Adam Smith, Karl Marx, Alfred Marshall, J. M. Keynes and significant 20th-century economists. __Credit Hours: 3 hrs __Prerequisites: ECON201 or ECON340 __Notes: This is an undergraduate course available for graduate credit.

ECON 407 - Economic Analysis and Law
The application of economic analysis to the law, including property law, contract law, family law, torts, criminal law, constitutional law, antitrust and environmental law. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 415 - Introduction to Econometrics
Introduction to the mathematical formulation of economic theories. The use of statistical procedures to measure the theoretical relationships and to verify or reject the theories. Quantitative predictions, measurements and statistical test of the predictions. __Credit Hours: 3 hrs __Prerequisites: ECON201, ECON202, and either ECON 310, MATH360, MATH 370 or DS265 __Notes: This is an undergraduate course available for graduate credit.

ECON 436 - Health Economics
The production, distribution, supply and utilization of health care resources, especially in the United States. Relevant tools of economic analysis and empirical studies, allocation of resources to the health care sector. __Credit Hours: 3 hrs __Prerequisites: ECON202 or equivalent __Notes: This is an undergraduate course in a graduate program.

ECON 440 - Money, Credit and Monetary Policy
An analytical study of the theories of money demand and money supply. Also studied are commercial banking and the operations and conduct of Federal Reserve monetary policy under alternative policy procedures and economic disturbances. The subject is viewed from both domestic and international perspectives. __Credit Hours: 3 hrs __Prerequisites: ECON301 or ECON340 __Notes: This is an undergraduate course available for graduate credit.

ECON 445 - Economic Fluctuations and Forecasting
Study of the history, nature and causes of economic fluctuations. Also included are alternate approaches to economic forecasting used by business and government including econometric forecasting; and the role of monetary and fiscal policies, supply shocks, international factors and structural change in generating economic fluctuations. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 455 - Cost-Benefit Analysis
Cost-benefit analysis techniques and their application to evaluating economic efficiency of government expenditure programs. Determination and distribution of benefits and costs in specific public projects. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 460 - Industrial Organization
Monopoly, competition, mergers, concentration and antitrust, and other public
policies affecting private enterprise in the United States. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 479 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 480 - International Economics
Analysis of theory and economic problems of international trade factor movements, exchange mechanisms, balance of payments, regional economic integration, assistance agencies, and adjustments to changing conditions. __Credit Hours: 3 hrs __Prerequisites: ECON201 and ECON202 __Notes: This is an undergraduate course available for graduate credit.

ECON 500 - Foundations of Economics
A study of microeconomics, macroeconomics and international trade designed for graduate students who have not taken economics at the undergraduate level. Topics include supply and demand analysis, elasticity, profit maximization, market structure, market failure, unemployment, inflation, fiscal and monetary policy, and international economics. __Credit Hours: 3 hrs

ECON 501 - Macroeconomic Theory and Policy
National income analysis, employment theory, monetary theory and practice, and their application to economic policy. Not open to students who have had ECON301. __Credit Hours: 3 hrs __Prerequisites: One 100-, 200-, 300- or 400-level course in economics and MATH104

ECON 502 - Microeconomic Theory and Policy
Analysis of the economic behavior of individuals and firms under various market conditions, the determination of relative prices, the allocation of resources and related problems. Not open to students who have had ECON302. __Credit Hours: 3 hrs __Prerequisites: any one 100-, 200-, 300- or 400-level course in economics and MATH104, or equivalent

ECON 504 - Consumer Economics
Current economics and consumer economics concepts and issues. Topics include basic economic concepts, the Michigan Standards and Benchmarks for Economics Instruction in public schools, consumer credit issues, understanding monetary and fiscal policies and international economics. The course is designed to serve individuals who are now teaching or expect to be teaching consumer economics units in K-12 settings. Not open to economics majors. __Credit Hours: 2 hrs

ECON 505 - Collective Bargaining in Public and Private Sectors
Study of the institutions and practices of collective bargaining in both private industry and the public sector, starting with the origins of collective bargaining in blue collar professions and the public sector, and ranging from the local school district to the federal government. Not open to economics majors. __Credit Hours: 3 hrs __Prerequisites: ECON500

ECON 508 - International Trade
A study of the causes and economic effects of trade; commercial policies and their effects on trade; trade issues and conflicts; and international factor movements. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 509 - International Monetary Economics
A study of the foreign exchange market, exchange rate systems, the balance of payments, macroeconomic aspects of international trade and the institutions and problems of the international monetary system. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 510 - Applied Economic Statistics
Application of statistics and quantitative analysis to economic problems, using computer techniques. __Credit Hours: 3 hrs __Prerequisites: ECON310 or equivalent

ECON 511 - Mathematical Economics
Study of economic models, matrix algebra and linear economic models, linear programming and game theory, optimization problems and calculus of variations. __Credit Hours: 3 hrs __Prerequisites: MATH119 or MATH120, and ECON301 and ECON302, or equivalent

ECON 515 - Econometrics: Theory and Applications
Study of simultaneous-equation systems: structured, reduced and final-form models; the analysis of univariate and multivariate time-series models; the development of estimation and forecasting techniques, and dynamic simulation; and the use of models for policy issues. __Credit Hours: 3 hrs __Prerequisites: ECON415 or equivalent

ECON 517 - Economic Analysis of Law
Application of microeconomic theory to the analysis of laws and legal systems. Introduction to Game Theory within the context of property rights, contracts and dispute settlements. Some comparison of American laws with those of Europe and Japan. __Credit Hours: 3 hrs __Prerequisites: ECON301, ECON302 and ECON310, or equivalent

ECON 520 - Analytic Labor Economics
Application of microeconomic theory in analyzing labor market behavior. Topics covered include labor supply, labor demand, investment in human capital, worker mobility and a critique of the microeconomic approach to labor economics. __Credit Hours: 3 hrs __Prerequisites: ECON301 and ECON302, or equivalent

ECON 527 - Women and the Economy in Japan. __Credit Hours: 3 hrs __Prerequisites: ECON301, ECON302 and ECON310, or equivalent

ECON 528 - International Finance
A study of the foreign exchange market, exchange rate systems, the balance of payments, macroeconomic aspects of international trade and the institutions and problems of the international monetary system. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 529 - International Monetary Economics
A study of the foreign exchange market, exchange rate systems, the balance of payments, macroeconomic aspects of international trade and the institutions and problems of the international monetary system. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 530 - Advanced Economic Analysis
A study of microeconomics, macroeconomics and international trade designed for graduate students who have not taken economics at the undergraduate level. Topics include supply and demand analysis, elasticity, profit maximization, market structure, market failure, unemployment, inflation, fiscal and monetary policy, and international economics. __Credit Hours: 3 hrs

ECON 531 - Advanced Macroeconomic Theory
National income analysis, employment theory, monetary theory and practice, and their application to economic policy. Not open to students who have had ECON301. __Credit Hours: 3 hrs __Prerequisites: One 100-, 200-, 300- or 400-level course in economics and MATH104

ECON 532 - Advanced Microeconomic Theory
Analysis of the economic behavior of individuals and firms under various market conditions, the determination of relative prices, the allocation of resources and related problems. Not open to students who have had ECON302. __Credit Hours: 3 hrs __Prerequisites: any one 100-, 200-, 300- or 400-level course in economics and MATH104, or equivalent

ECON 533 - Advanced Consumer Economics
Current economics and consumer economics concepts and issues. Topics include basic economic concepts, the Michigan Standards and Benchmarks for Economics Instruction in public schools, consumer credit issues, understanding monetary and fiscal policies and international economics. The course is designed to serve individuals who are now teaching or expect to be teaching consumer economics units in K-12 settings. Not open to economics majors. __Credit Hours: 2 hrs

ECON 534 - Advanced Collective Bargaining in Public and Private Sectors
Study of the institutions and practices of collective bargaining in both private industry and the public sector, starting with the origins of collective bargaining in blue collar professions and the public sector, and ranging from the local school district to the federal government. Not open to economics majors. __Credit Hours: 3 hrs __Prerequisites: ECON500

ECON 535 - Advanced International Trade
A study of the causes and economic effects of trade; commercial policies and their effects on trade; trade issues and conflicts; and international factor movements. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 536 - Advanced International Monetary Economics
A study of the foreign exchange market, exchange rate systems, the balance of payments, macroeconomic aspects of international trade and the institutions and problems of the international monetary system. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502

ECON 537 - Advanced Economic Analysis of Law
Application of microeconomic theory to the analysis of laws and legal systems. Introduction to Game Theory within the context of property rights, contracts and dispute settlements. Some comparison of American laws with those of Europe and Japan. __Credit Hours: 3 hrs __Prerequisites: ECON301, ECON302 and ECON310, or equivalent

ECON 538 - Advanced Analytic Labor Economics
Application of microeconomic theory in analyzing labor market behavior. Topics covered include labor supply, labor demand, investment in human capital, worker mobility and a critique of the microeconomic approach to labor economics. __Credit Hours: 3 hrs __Prerequisites: ECON301 and ECON302, or equivalent

ECON 539 - Advanced Women and the Economy in Japan. __Credit Hours: 3 hrs __Prerequisites: ECON301, ECON302 and ECON310, or equivalent

ECON 540 - Advanced International Finance
A study of the foreign exchange market, exchange rate systems, the balance of payments, macroeconomic aspects of international trade and the institutions and problems of the international monetary system. __Credit Hours: 3 hrs __Prerequisites: ECON501 and ECON502
Comparative Perspective

Theoretical analysis of women’s labor market status. Study of labor force participation, economic restructuring, global division of labor and policy approaches. Emphasis on comparison of the United States with other industrialized countries. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

ECON 534 - Regional and Urban Economics

Examination of problems of economic adjustment and development of regions, including inner city and metropolitan areas. Mass transit, public finance, housing, economic base studies, race distribution and poverty will be examined. __Credit Hours: 3 hrs _Prerequisites: any two courses of 100-, 200-, 300-, 400- or 500-level of economics

ECON 535 - Issues and Techniques in Medical Economics

Study of contemporary medical economics issues and techniques. Topics include economic aspects of managed care, risk assessment and adjustment, provider cost and quality of care profiling and outcomes and cost-effectiveness analysis. __Credit Hours: 3 hrs _Prerequisites: any two courses of 100-, 200-, 300-, 400- or 500-level of economics

ECON 536 - Advanced Health Economics

An analytical approach to the study of medical care services. Emphasis is on the application of economic and statistical concepts and techniques in the analysis of health care issues and problems. Current health care policy issues and recent changes in medical markets are examined. __Credit Hours: 3 hrs

ECON 537 - Statistical Methods in Medical Economics

Provide an introduction to the most frequently used statistical techniques used in analyzing healthcare data. Topics include data management, descriptive statistics, regression analysis, hypothesis testing, reliability and validity and presentation of results. Specific models discussed include ANOVA, single and multi variable linear regression, logistic regression, fixed and random effects model and survival analysis. __Credit Hours: 3 hrs

ECON 540 - Monetary Economics

The development of monetary and central banking theory; policy applications and limitations in the context of the relationships among money, prices, national income and the balance of payments. __Credit Hours: 3 hrs _Prerequisites: ECON301 or equivalent

ECON 545 - Economic Forecasting and Policy

Examines the use of macroeconomic theory and forecasting techniques in the formulation and evaluation of economic stabilization policies. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON310, or equivalent

ECON 550 - Public Finance: Analysis and Policy

Detailed theoretical analysis of the problems of budgeting and budget techniques; methods to evaluate expenditures, efficiency and equality considerations in tax policy; problems of stabilization policy and growth policy; and evaluation of the affect and importance of national debt. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

ECON 551 - State and Local Government Finance

Economic analysis of expenditures, revenues and debt management of state and local governments. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

ECON 554 - Economic Growth and Development

Conditions, courses and consequences of
growth and development: instruments of expansion and control, and important theories and models of growth. Economic growth in both the United States and underdeveloped countries. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 586 - Economic Planning**
This course examines economic planning techniques, including macroeconomic growth models, input-output analysis and linear programming. It investigates the implementation of economic planning in developed economies, with specific reference to indicative planning and industrial policy in France and Japan. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 587 - Case Studies in Economic Development**
Survey of economic development in selected countries or regions with emphasis on development policies, theoretical applications and economic structures of countries or regions surveyed. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 590 - Special Topics**
An advanced-level course in a specific area of economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 591 - Special Topics**
An advanced-level course in a specific area of economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 592 - Special Topics**
An advanced-level course in a specific area of economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent

**ECON 597 - Independent Study**
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 1 hr _Prerequisites: department permission

**ECON 598 - Independent Study**
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

**ECON 599 - Independent Study**
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

**ECON 601 - Macroeconomic Analysis**
Study of theoretical and empirical examination of macroeconomic theories of the determination of income, employment, the price level, interest rates and economic growth in a domestic and world economy. The course may include the Classical, Keynesian, Monetary, Rational Expectations and Real Business Cycle schools of thought. __Credit Hours: 3 hrs _Prerequisites: ECON301 and ECON302, or equivalent. _When Offered: Coreq: ECON415 and ECON511

**ECON 602 - Microeconomic Analysis**
Economic analysis of the behavior of individuals and firms, price determination in competitive and monopolistic markets, general static equilibrium and the allocation of resources. __Credit Hours: 3 hrs _Prerequisites: ECON302 and ECON511

**ECON 604 - Research Seminar in Economics**
Examines selected issues of research methodology, procedures and techniques.

**ECON 605 - Managerial Economics**
Application of economic analysis to decision making and business management, focusing on the areas of production and cost, as well as investment, pricing, demand estimation and economic forecasting. __Credit Hours: 3 hrs _Prerequisites: ECON310 or equivalent, ECON501, and ECON502.

**ECON 606 - Applied Economics**
Integrates economic theory and quantitative methods, providing tools to formulate, estimate and evaluate micro- and/or macroeconomic topics. These may include: estimating demand functions for given periods, Engel curves, production cost, consumption, investment and money demand functions. __Credit Hours: 3 hrs _Prerequisites: ECON301, ECON302 and ECON415, or equivalent

**ECON 607 - Managerial Microeconomics**
Application of economic analysis to decision making and business management, focusing on the areas of production and cost, as well as investment, pricing, demand estimation and economic forecasting. __Credit Hours: 3 hrs _Prerequisites: ECON310 or equivalent, ECON501, and ECON502.

**ECON 608 - Managerial Macroeconomics**
Application of economic analysis to decision making and business management, focusing on the areas of production and cost, as well as investment, pricing, demand estimation and economic forecasting. __Credit Hours: 3 hrs _Prerequisites: ECON310 or equivalent, ECON501, and ECON502.

**ECON 639 - Continuous Enrollment**
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**ECON 679 - Special Topics**
An experimental course for contemporary topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 1 hr

**ECON 680 - Special Topics**
An experimental course for contemporary topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 1 hr

**ECON 681 - Special Topics**
An experimental course for contemporary topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 1 hr

Students conduct individual research projects, present their findings in a seminar format and submit a research paper. __Credit Hours: 3 hrs _Prerequisites: ECON415 or equivalent

**ECON 682 - Special Topics**
An experimental course for contemporary topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 1 hr
topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

ECON 681 - Special Topics
An experimental course for contemporary topics not provided in other departmental offerings. The content will change from semester to semester. Not more than three hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

ECON 686 - Cooperative Education
Four to six months of part- or full-time employment in a position in business, finance, government or labor that uses economic analysis. (See the Career Services Center for the availability of such positions.) The student and a faculty sponsor from the Department of Economics agree on a co-op activity, subject to the approval of the director of graduate programs in economics. A written report at the end of the employment period documents the use of economic analysis in the co-op position. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis. The credit does not apply to the economics major. Maximum number of co-op experiences is two.

ECON 688 - Cooperative Education
Four to six months of part- or full-time employment in a position in business, finance, government or labor that uses economic analysis. (See the Career Services Center for the availability of such positions.) The student and a faculty sponsor from the Department of Economics agree on a co-op activity, subject to the approval of the director of graduate programs in economics. A written report at the end of the employment period documents the use of economic analysis in the co-op position. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis. The credit does not apply to the economics major. Maximum number of co-op experiences is two.

ECON 689 - Independent Study
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

ECON 690 - Thesis
Completion of research problems and writing thesis. __Credit Hours: 1 hr _Prerequisites: approved thesis proposal

ECON 691 - Thesis
Completion of research problems and writing thesis. __Credit Hours: 2 hrs _Prerequisites: approved thesis proposal

ECON 692 - Thesis
Completion of research problems and writing thesis. __Credit Hours: 3 hrs _Prerequisites: approved thesis proposal

ECON 693 - Seminar
A seminar in advanced economic theory or policy open only to degree students of the department. __Credit Hours: 3 hrs _Prerequisites: 12 hours toward M.A. degree _Repeatable: May be repeated for credit.

ECON 695 - Seminar
A seminar in advanced economic theory or policy open only to degree students of the department. __Credit Hours: 3 hrs _Prerequisites: 12 hours toward M.A. degree _Repeatable: May be repeated for credit.

ECON 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 1 hr _Prerequisites: department permission

ECON 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

ECON 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a member of the economics faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

Educational Leadership

EDLD 500 - Professional Educator Development Program
For in-service professional and personal development. __Credit Hours: 1/2/3 hrs _Notes: Credits not applicable to an advanced-degree program.

EDLD 509 - Educational Leadership in a Pluralistic Society
Analysis of the educational administration issues presented in culturally pluralistic educational environments. Examination of sociopolitical context of schools, impact of dominant and subordinate groups and leadership challenges involved in striving for school success for all. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

EDLD 510 - Educational Organization
An introduction to educational organizations and the structure of American schools; the authority and relationships of federal, state and local governments to education; and the role and function of education in society. __Credit Hours: 3 hrs

EDLD 513 - Community Education and Community Relations
An exploration of the basic principles and philosophy of community education, its current status and relationship to education and interpretation of the educational institution to a diverse community. Emphasis on promoting public confidence in schools via two-way communication and community involvement in schools. __Credit Hours: 3 hrs
EDLD 514 - Organization and Administration of K-12 Schools
Overview of the theories of leadership and organization that shaped the system of American education. Students critically compare the ideas, concepts, issues, broad knowledge and theories about managing, motivating staff, wielding power, leading people, handling conflict, making decisions, working within a bureaucracy and organizing educational institutions to improve learning. __Credit Hours: 3 hrs

EDLD 515 - Instructional Leadership
Development of the knowledge, attitudes and skills necessary for administrators as they supervise effective, positive instructional programs; principles and procedures for addressing issues related to professional growth and continuous improvement. __Credit Hours: 3 hrs

EDLD 517 - Leadership for School Improvement
An exploration of knowledge and skills to nurture and sustain school improvement processes. Building capacity and support among staff for initiatives, revising and refining school practice, monitoring progress toward established goals and making decisions regarding effectiveness. __Credit Hours: 3 hrs

EDLD 518 - Multimedia Technology for School Administrators
An overview of multimedia applications for school administrators. Strategies for leadership, planning, decision making, integration and evaluation of multimedia in schools will be emphasized. Sessions will include lecture and hands-on practice. __Credit Hours: 3 hrs

EDLD 550 - Introduction to Student Affairs in Higher Education
This course is designed to provide an introduction to the field of student affairs in higher education. The course provides several introductory elements: an historical overview of student affairs, professional ethics, theoretical approaches to student learning and an introduction to the various functions and activities associated with student affairs. The course is designed to examine student affairs in public and private institutions as well as community colleges. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with COUN550.

EDLD 551 - Contemporary College Students
This course focuses on an examination of the changing undergraduate lifestyle, attitudes, characteristics and demographics of today's college students. In the course the students will examine the effects of higher education, the student as learner and student development theory. Attention is given to both traditional and nontraditional college populations in two- and four-year institutions. __Credit Hours: 3 hrs __Prerequisites: COUN550 or permission of instructor __Cross-listed: This course is cross-listed with COUN551.

EDLD 590 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in educational leadership. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

EDLD 591 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in educational leadership. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

EDLD 592 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in educational leadership. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

EDLD 597 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

EDLD 598 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

EDLD 599 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

EDLD 607 - Colloquium
Course(s) designed to explore specific leadership topics utilizing distinguished scholars and lecturers. __Credit Hours: 2 hrs

EDLD 609 - Team Building and Consensus Decision-Making of Educational Leadership
This course is designed as a skill-building class to help educational leaders increase their effectiveness in working with faculty, staff, school board members and/or community groups in collaborative decision-making. __Credit Hours: 3 hrs

EDLD 611 - Introduction to Adult and Continuing Education
A general overview of the topic of adult and continuing education to students for introductory purposes and as a basis for further concentration and study in selected advanced areas of adult education. This course should be a prerequisite for advanced study and includes philosophy; history; identification of adult objectives; knowledge of adult learners; and contemporary status, trends and issues in adult and continuing education. __Credit Hours: 3 hrs

EDLD 612 - Economics of Public
Education
An examination of the basic economic, fiscal and legal theories of support for education, tax structures, state aid formulas, federal aid and school budgets. __Credit Hours: 3 hrs _Prerequisites: EDLD510

EDLD 613 - Introduction to Higher Education
An introduction to the study of higher education, including two- and four-year colleges and universities. The course is designed for persons interested in developing an understanding of the background, growth, purposes and practices of higher education in the United States. __Credit Hours: 3 hrs

EDLD 614 - Law for Higher Education
An examination of the major legal aspects of the administration of institutions of higher learning. __Credit Hours: 3 hrs

EDLD 615 - Collective Negotiations in Education
An analysis of issues that may be encountered by school administrators and teachers in collective negotiations in education. __Credit Hours: 3 hrs

EDLD 616 - Educational Facilities Planning
Problems and procedures revealed through a plant-planning chronology that includes hiring the architect, the attorney's role, site acquisition, involving citizens, utilizing staff, the bond issue and designing and constructing the building. Emphasis will be placed on renovating, closing and alternative uses for existing buildings. __Credit Hours: 3 hrs

EDLD 617 - Administering Human Resources in Education
Development of an understanding of the issues, problems and practices involved in the administration of personnel programs in education. An in-depth exploration of the basic principles of staff administration and high-level morale. For prospective and practicing administrators. __Credit Hours: 3 hrs _Prerequisites: six hours in educational leadership

EDLD 620 - The Principalship
The examination of the role of a school principal in: a) improving curriculum and instruction; b) the establishment of effective operations in a school; and c) establishing avenues for change by an awareness of innovations, materials, technologies and research that are relevant for the elementary, middle and high schools. __Credit Hours: 3 hrs _Prerequisites: six hours in educational leadership

EDLD 622 - Organization and Administration of Higher Education
An understanding of the structure and governance of higher education — two-year and four-year colleges as well as universities — including legal bases, external and internal constraints, functional patterns, administrative staff roles and responsibility, faculty organization and authority, and student participation in organizational structure. __Credit Hours: 3 hrs

EDLD 625 - The Superintendency and District Level Leadership
In-depth studies in the practical knowledge and skills required to carry out effectively the responsibilities of district level administration including the role of the public school superintendent. __Credit Hours: 3 hrs _Prerequisites: six hours in educational leadership

EDLD 630 - Legal, Ethical and Professional Issues of Administration
Operation of laws; development of legal principles; federal and state relationships to education; authority relationships to education; authority and liability of school boards, administrators and teachers; negligence; discipline and control; professional ethics and related issues. __Credit Hours: 3 hrs _Prerequisites: EDLD510 and EDLD514, or permission of instructor

EDLD 631 - Human Relations Skills for Educational Leaders
An overview of the need for, and functions of, various human relations in the leadership of educational institutions. Development of an understanding and practice of specific interactive strategies necessary for such leadership. __Credit Hours: 3 hrs

EDLD 632 - Community College Leadership
This course provides a historical overview of the development of American Community Colleges. The course focuses on the social forces leading to the community college movement, educational philosophies and multiple institutional missions. The roles and responsibilities of leaders in meeting the needs of diverse student populations will be emphasized. Particular attention will be paid to the organizational structures and processes that shape administrative decision making in educational leadership. __Credit Hours: 3 hrs

EDLD 633 - History of American Higher Education
The study of higher education demands the understanding of historical context. The knowledge of history provides an understanding of the shape of present experience. The course will examine historical needs in higher education that have affected students, faculty, staff and trustees in terms of traditions, customs, values and practice. __Credit Hours: 3 hrs

EDLD 634 - Higher Education Finance
This course will provide an overview of the economics and financing of postsecondary education in the United States. It will include an introduction to economics theory as applied to institutions of higher learning, financial trends in funding America's colleges and universities, federal investment in higher education, tuition and fee trends, and state policy and budgeting processes. The course will briefly review the basic elements of fiscal management at the institutional level. __Credit Hours: 3 hrs _Prerequisites: EDLD613

EDLD 635 - Policy Analysis in Higher
**Education**

This seminar concentrates on the vital role of public policy in shaping American higher education. The nexus between government and contemporary social and political issues affecting institutions of higher learning will be examined. The course is designed to assist students in gaining greater familiarity with identifying, analyzing and evaluating specific policies. __Credit Hours: 3 hrs

**EDLD 636 - Legal, Ethical and Policy Issues in Student Affairs**

The purpose of this course is to provide an understanding of those legal, ethical and policy issues facing departments in student affairs. To assist in this understanding, an overview of legal and ethical and policy issues as they relate to major functional areas within student affairs. __Credit Hours: 2 hrs

**EDLD 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**EDLD 655 - College Student Development Theory**

This course teaches education professionals to apply college student development and learning theories in higher education environments. Students will learn how various theories can be intentionally applied to facilitate student development both inside and outside the classroom. Student development theory is unique to higher education environments. Further relevant psychological theories are offered in PSY640 and PSY646. __Credit Hours: 3 hrs _Prerequisites: graduate standing _Cross-listed: This course is cross-listed with COUN655.

**EDLD 660 - Grantwriting**

This course is designed to help students develop and improve their grantwriting and grantsmanship skills and knowledge. The course topics include, but are not limited to, developing a fundable idea, writing a quality proposal and locating sources of funding. __Credit Hours: 2 hrs _Cross-listed: This course is cross-listed with EDPS660

**EDLD 679 - Special Topics**

Special experimental offerings of the educational leadership program. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

**EDLD 680 - Special Topics**

Special experimental offerings of the educational leadership program. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

**EDLD 681 - Special Topics**

Special experimental offerings of the educational leadership program. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

**EDLD 682 - Workshop**

Special topics of educational leadership designed to maximize student participation. __Credit Hours: 1 hr _Notes: Emphasis on the workshop method of teaching and learning. Topics to be selected. (See current schedule.)

**EDLD 683 - Workshop**

Special topics of educational leadership designed to maximize student participation. __Credit Hours: 2 hrs _Notes: Emphasis on the workshop method of teaching and learning. Topics to be selected. (See current schedule.)

**EDLD 684 - Workshop**

Special topics of educational leadership designed to maximize student participation. __Credit Hours: 3 hrs _Notes: Emphasis on the workshop method of teaching and learning. Topics to be selected. (See current schedule.)

**EDLD 685 - Workshop**

Special topics of educational leadership designed to maximize student participation. __Credit Hours: 4 hrs _Notes: Emphasis on the workshop method of teaching and learning. Topics to be selected. (See current schedule.)

**EDLD 686 - Master’s Internship in Educational Leadership**

Training in administration through actual supervised experience. Arrangements must be approved by adviser and director of the intern program prior to registration. Enrollment limited. __Credit Hours: 1 hr _Prerequisites: department permission Majors only _When Offered: Offered on a credit/no-credit basis.

**EDLD 687 - Master’s Internship in Educational Leadership**

Training in administration through actual supervised experience. Arrangements must be approved by adviser and director of the intern program prior to registration. Enrollment limited. __Credit Hours: 2 hrs _Prerequisites: department permission Majors only _When Offered: Offered on a credit/no-credit basis.

**EDLD 688 - Master’s Internship in Educational Leadership**

Training in administration through actual supervised experience. Arrangements must be approved by adviser and director of the intern program prior to registration. Enrollment limited. __Credit Hours: 3 hrs _Prerequisites: department permission Majors only _When Offered: Offered on a credit/no-credit basis.

**EDLD 689 - Master’s Internship in Educational Leadership**

Training in administration through actual supervised experience. Arrangements must be approved by adviser and director of the intern program prior to registration. Enrollment limited. __Credit Hours: 4 hrs _Prerequisites: department permission Majors only _When Offered: Offered on a credit/no-credit basis.
EDLD 694 - Seminar in Educational Leadership

Broad or special topics of educational leadership. __Credit Hours: 1 hr __Notes: Topics to be selected. (See current schedule.)

EDLD 695 - Seminar in Educational Leadership

Broad or special topics of educational leadership. __Credit Hours: 2 hrs __Notes: Topics to be selected. (See current schedule.)

EDLD 696 - Seminar in Educational Leadership

Broad or special topics of educational leadership. __Credit Hours: 3 hrs __Notes: Topics to be selected. (See current schedule.)

EDLD 697 - Independent Study

An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: approval of adviser, 10 hours in educational leadership and department permission. __When Offered: Offered on a credit/no-credit basis.

EDLD 698 - Independent Study

An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: approval of adviser, 10 hours in educational leadership and department permission. __When Offered: Offered on a credit/no-credit basis.

EDLD 699 - Independent Study

An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: approval of adviser, 10 hours in educational leadership and department permission. __When Offered: Offered on a credit/no-credit basis.

EDLD 710 - Leadership Theory

Theories and models of administration and leadership. __Credit Hours: 3 hrs __Prerequisites: admission to the specialist or doctoral program in educational leadership, or permission of instructor.

EDLD 712 - Analysis of Research in Administration

Emphasis on contributions of research in the behavioral sciences to educational leadership. Critical readings of the research of psychologists, sociologists, political scientists and others that have special meaning in understanding such concepts as leadership, organization, power, authority, communication, innovation and decision making. __Credit Hours: 3 hrs __Prerequisites: six hours in educational leadership, EDPS621, EDPS677, EDLD640 and EDLD710.

EDLD 713 - Field-Based Research

Development and completion of a field-based research study. Offered on a credit/no-credit basis. __Credit Hours: 1 hr __Prerequisites: Ten hours in program, and department permission.

EDLD 714 - Data-Driven Decision Management for Educational Leaders

The decision-making process in educational organizations will be explored from multiple perspectives. This course will focus primarily on understanding existing perspectives on data-driven decision management and applying these perspectives to practical situations in education. This course will only be available to students in the doctor of education in educational leadership program or the specialist of arts in educational leadership program. __Credit Hours: 3 hrs __Prerequisites: admission to specialist or doctoral program.

EDLD 740 - Organizational Theory

Various theories, approaches and methods of organizing educational institutions. Concern with design, purposes, processes, problems and issues of organizational structuring and change. Examination of organizational environment and informational organization. Open to specialist and doctoral students only. __Credit Hours: 3 hrs.

EDLD 767 - Continuous Enrollment

Graduate students who are completing dissertation research or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. Course offered on a credit/no-credit basis. __Credit Hours: 1 hr __Prerequisites: department permission.

EDLD 779 - Special Topics

Intensive study of a topic of current relevancy. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr.

EDLD 780 - Special Topics

Intensive study of a topic of current relevancy. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs.

EDLD 781 - Special Topics

Intensive study of a topic of current relevancy. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs.

EDLD 786 - Internship in Educational Administration

Provision of an opportunity for the graduate student at the specialist’s level to develop administrative skills by working under the direction of an experienced administrator. Arrangements must be approved by adviser and director of the intern program prior to registration. __Credit Hours: 1 hr __Prerequisites: department permission. __When Offered: Offered on a credit/no-credit basis.
EDLD 787 - Internship in Educational Administration

Provision of an opportunity for the graduate student at the specialist’s level to develop administrative skills by working under the direction of an experienced administrator. Arrangements must be approved by adviser and director of the intern program prior to registration. _Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

EDLD 788 - Internship in Educational Administration

Provision of an opportunity for the graduate student at the specialist’s level to develop administrative skills by working under the direction of an experienced administrator. Arrangements must be approved by adviser and director of the intern program prior to registration. _Credit Hours: 3 hrs _Prerequisites: admission to the doctoral program in educational leadership _When Offered: Offered on a credit/no-credit basis.

EDLD 789 - Internship in Educational Administration

Provision of an opportunity for the graduate student at the specialist’s level to develop administrative skills by working under the direction of an experienced administrator. Arrangements must be approved by adviser and director of the intern program prior to registration. _Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

EDLD 790 - Thesis

Intensive study of a problem or group of problems under the direction of a faculty member. _Credit Hours: 1 hr _Prerequisites: approval of adviser and departmental requirements for thesis

EDLD 791 - Thesis

Intensive study of a problem or group of problems under the direction of a faculty member. _Credit Hours: 2 hrs _Prerequisites: approval of adviser and departmental requirements for thesis

EDLD 792 - Thesis

Intensive study of a problem or group of problems under the direction of a faculty member. _Credit Hours: 3 hrs _Prerequisites: approval of adviser and departmental requirements for thesis

EDLD 794 - Advanced Seminar in Educational Administration

Intensive study of selected problems in administration and supervision. _Credit Hours: 3 hrs _Prerequisites: admission to doctoral program in educational leadership

EDLD 797 - Independent Study

Intensive study of a problem under the direction of a faculty member. _Credit Hours: 1 hr _Prerequisites: approval of adviser, 10 hours in educational leadership and department permission _When Offered: Offered on a credit/no-credit basis.

EDLD 798 - Independent Study

Intensive study of a problem under the direction of a faculty member. _Credit Hours: 2 hrs _Prerequisites: approval of adviser, 10 hours in educational leadership and department permission _When Offered: Offered on a credit/no-credit basis.

EDLD 799 - Independent Study

Intensive study of a problem under the direction of a faculty member. _Credit Hours: 3 hrs _Prerequisites: approval of adviser, 10 hours in educational leadership and department permission _When Offered: Offered on a credit/no-credit basis.

EDLD 810 - Ethics and Policy Analysis for Educational Leaders

Designed to equip students with analytical skills for confronting ethical issues in business, education, research, nursing and government. Mastery of the ethical process — a strategy for making good decisions. Critical thinking about ethical problems in professional settings. Analysis of selected educational and governmental policies from an ethical base using diverse views of professional moral duties as a screening device. _Credit Hours: 3 hrs _Prerequisites: admission to the doctoral program in educational leadership

EDLD 820 - The Politics of Educational Leadership

This course will examine the exercise of political power in education. It is designed for the educational leader who must deal with the impact of politics on managing and leading educational institutions. _Credit Hours: 3 hrs _Prerequisites: admission to the doctoral program in educational leadership

EDLD 895 - Dissertation Research Seminar

This seminar is designed for the doctoral student who has identified the topic for his or her dissertation research and will focus on the production and evaluation of proposals for the doctoral dissertation. Offered on a credit/no-credit basis. _Credit Hours: 2 hrs _Prerequisites: permission of student’s academic adviser

EDLD 896 - Dissertation Research

These courses are designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student’s effort on the dissertation in a given semester. _Credit Hours: 2 hrs _Prerequisites: admission to candidate status and successful completion of EDLD895 _When Offered: Offered on a credit/no-credit basis.

EDLD 897 - Dissertation Research

These courses are designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student’s effort on the dissertation in a given semester. _Credit Hours: 2 hrs _Prerequisites: admission to candidate status and successful completion of EDLD895 _When Offered: Offered on a credit/no-credit basis.
EDLD 898 - Dissertation Research

These courses are designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student’s effort on the dissertation in a given semester. 
__Credit Hours: 4 hrs _Prerequisites: admission to candidate status and successful completion of EDLD895. When Offered: Offered on a credit/no-credit basis.

EDLD 899 - Dissertation Research

These courses are designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student’s effort on the dissertation in a given semester. 
__Credit Hours: 8 hrs _Prerequisites: admission to candidate status and successful completion of EDLD895. When Offered: Offered on a credit/no-credit basis.

EDLD 900 - Dissertation Research

These courses are designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student’s effort on the dissertation in a given semester. 
__Credit Hours: 12 hrs _Prerequisites: admission to candidate status and successful completion of EDLD895. When Offered: Offered on a credit/no-credit basis.

EDMT 500 - Professional Educator Development Program

For in-service professional and personal development. 
__Credit Hours: 1/2/3 hrs _Notes: Not applicable to an advanced degree. _Repeatable: May be repeated for credit.

EDMT 507 - Introduction to Microcomputers

This introductory course will 1) build confidence and competence for educators with limited computer experience and 2) raise awareness of implications of computer technology in education. This course is not included as part of the program of study in the educational technology concentration. 
__Credit Hours: 2 hrs

EDMT 525 - Image Processing for Educators

EDMT525 is designed to help educators learn to integrate image processing technology into a classroom learning environment. Image processing is a tool used by research scientists that has proven to be excellent in promoting learning through exploration and discovery, especially in the areas of mathematics, science and geography. 
__Credit Hours: 2 hrs

EDMT 526 - Microworlds: LOGO for Educators

Introduces students to the Logo computer language, its application in education, its underlying philosophy, and the "Logo debate" within the educational research community and its implications for the field of educational computing. Students will program individual projects in different Logo languages. 
__Credit Hours: 2 hrs _Prerequisites: competency in using a computer

EDMT 528 - Advanced Educational Applications of Computers

A hands-on experience with educational application of computers. Students will learn how to use word processing software to prepare tests, handouts, letters and papers; spreadsheet programs to maintain student gradebooks and prepare budgets; authoring systems to prepare computer-assisted instructional materials; database managers to maintain student and school records; and information utilities as information and communication media. 
__Credit Hours: 2 hrs _Prerequisites: EDMT507 and EDMT522, or permission of the instructor

EDMT 590 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. 
__Credit Hours: 1 hrs _Prerequisites: department permission

EDMT 591 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. 
__Credit Hours: 2 hrs _Prerequisites: department permission

EDMT 592 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. 
__Credit Hours: 3 hrs _Prerequisites: department permission

EDMT 597 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. 
__Credit Hours: 1 hrs _Prerequisites: department permission

EDMT 598 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. 
__Credit Hours: 2 hrs _Prerequisites: department permission

EDMT 599 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. 
__Credit Hours: 3 hrs _Prerequisites: department permission

EDMT 601 - Technology and the
Reflective Professional Educator

Students will articulate an appropriate role for instructional technology in their professional roles as educators while critically examining the various roles for use of technology in the schools. __Credit Hours: 2 hrs _Prerequisites: at least one course in educational psychology, or human growth and development, or psychology

EDMT 602 - Technology and Student-Centered Learning

Based on theoretical, philosophical and historical perspectives, students will plan for technology-enhanced student-centered learning in their classroom. Students will also participate in a field experience that enables them to compare methods and strategies of technology integration. __Credit Hours: 3 hrs

EDMT 603 - Technology Enhanced Learning Environments

This course addresses educators as managers of classroom environments in which children learn. Students use technology to support management of learning communities (classroom, school, global): assessment, record-keeping and communications. They examine configurations for technology, staff development models and change process. __Credit Hours: 3 hrs

EDMT 618 - Internet Resources for Educators

Students will learn how to use the Internet and associated tools. They will learn how to connect to EMU's computer network as well as how to access the Internet. __Credit Hours: 2 hrs

EDMT 623 - Instructional Design and Development of Multimedia Instructional Materials

Introduces concepts and research related to instructional design (needs assessment, learner analysis, task analysis, specification of instructional objectives, selection of instructional strategies and media, message design, formative and summative evaluation) and the design of computer-based multimedia instruction. Using rapid prototyping and an authoring environment, students implement their multimedia design. __Credit Hours: 3 hrs _Prerequisites: EDPS602 and EDPS603

EDMT 625 - Designing and Authoring Instructional Multimedia

EDMT625 will familiarize students with the concepts and research related to the design of computer-based multimedia instruction. Additionally, using rapid prototyping, students will implement their multimedia design. __Credit Hours: 2 hrs _Prerequisites: EDMT602

EDMT 627 - Advanced Technical Issues in Educational Technology

Helps educators consider the nature and implications of complex multisite technological innovations. The course also prepares students to give informed input into decisions impacting planning, purchasing and implementation of innovations. __Credit Hours: 3 hrs _Prerequisites: EDMT602, EDMT603

EDMT 628 - The Design and Use of Online Resources for Education

Students will examine the theory behind and use of telecommunications and video in education including Internet applications, online course management systems and other distance learning technologies. Students will design and evaluate online and distance learning projects, including informational web pages, multimedia online learning environments, and classroom management and assessment tools. __Credit Hours: 3 hrs _Prerequisites: EDMT602, EDMT603, or EDMT618 _Notes: (Students in the EDMT master’s program take EDMT602 or EDMT603 as a pre-requisite. Students outside of the master’s program take EDMT618 as prerequisite.)

EDMT 630 - Technology and the Young Child

Students explore both sides of the debate regarding young children (ages 3-8) and technology use; evaluate software and identify developmentally appropriate programs; develop appropriate learning activities; address ethical issues in using technology with children; set up learning spaces which involve technology; and identify web-based technological support for continued professional development. __Credit Hours: 2 hrs _Notes: Only open to graduate level students.

EDMT 633 - Instructional Message Design

Introduces psychological principles for selecting and manipulating symbols to design effective messages for print-, media- and computer-based instructional materials. Students apply analytical processes to evaluate and design instructional materials which fulfill stated objectives which being authentic to the subject matter, appropriate to the specific learners and practical in terms of human and material resources. __Credit Hours: 2 hrs _Prerequisites: EDPS602 or EDPS603; EDMT623 is recommended

EDMT 638 - Internet II: Creating Web Content for Schools

This course is designed for educators and others who already have some familiarity with the Internet and are interested in learning how to use the World Wide Web for creating and placing instructional and noninstructional materials on line. The focus is on the making of home pages and development and utilization of a web site in an educational setting. __Credit Hours: 2 hrs _Prerequisites: EDMT618 or equivalent

EDMT 639 - Continuous Enrollment

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

EDMT 653 - Issues and Emerging Educational Technologies

Students will examine method, theory, research foundations and issues confronting the field of educational technology and the
role and impact of emerging technologies in education. Through projects and research, students will synthesize the learning from their EDMT foundation coursework and critically analyze implications for schools and classrooms. __Credit Hours: 3 hrs __Prerequisites: a minimum of 12 credit hours of graduate work in educational technology

EDMT 676 - Using Computers for Data Analysis
Use of statistical packages available for micro- and mainframe computers to organize, code, create, edit, manage, store and process data. Compare statistical packages. Write research reports interpreting educational data results. __Credit Hours: 2 hrs __Prerequisites: EDMT601

EDMT 679 - Special Topics
Develops foundational knowledge of technical aspects of computers for classroom teachers and computer lab coordinators. Includes computer terminology, operating systems and compatibility, memory, control panels, networking, etc. for configurations of computers in school settings. __Credit Hours: 1 hr

EDMT 680 - Special Topics
Develops foundational knowledge of technical aspects of computers for classroom teachers and computer lab coordinators. Includes computer terminology, operating systems and compatibility, memory, control panels, networking, etc. for configurations of computers in school settings. __Credit Hours: 2 hrs

EDMT 681 - Special Topics
Develops foundational knowledge of technical aspects of computers for classroom teachers and computer lab coordinators. Includes computer terminology, operating systems and compatibility, memory, control panels, networking, etc. for configurations of computers in school settings. __Credit Hours: 3 hrs

EDMT 686 - Internship in Educational Technology
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by the program adviser prior to registration. __Credit Hours: 1 hr __Prerequisites: department permission

EDMT 687 - Internship in Educational Technology
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by the program adviser prior to registration. __Credit Hours: 2 hrs __Prerequisites: department permission

EDMT 688 - Internship in Educational Technology
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by the program adviser prior to registration. __Credit Hours: 3 hrs __Prerequisites: department permission

EDMT 689 - Internship in Educational Technology
Provides a supervised opportunity for students to apply knowledge and skills gained through classroom activity in a "real world" working environment. Internship sites and supervisory arrangements must be approved by the program adviser prior to registration. __Credit Hours: 3 hrs __Prerequisites: department permission

EDMT 690 - Thesis
Credit Hours: 1 hr __Prerequisites: department permission

EDMT 691 - Thesis
Credit Hours: 2 hrs __Prerequisites: department permission

EDMT 692 - Thesis
Credit Hours: 3 hrs __Prerequisites: department permission

EDMT 693 - Seminar
Credit Hours: 1 hr

EDMT 694 - Seminar
Credit Hours: 2 hrs

EDMT 695 - Seminar
Credit Hours: 3 hrs

EDMT 696 - Seminar
Credit Hours: 4 hrs

EDMT 697 - Independent Study
An intensive study of one or more problems, under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

EDMT 698 - Independent Study
An intensive study of one or more problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

EDMT 699 - Independent Study
An intensive study of one or more problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

EDPS 325 - Life Span Human Growth and Development
An exploration of the biological, cognitive, social and affective domains of human growth and development from the prenatal period until death; the relationship of growth and development to behavior through the life span. __Credit Hours: 4 hrs

EDPS 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.
EDPS 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1 hrs _Repeatable: May be repeated for credit.

EDPS 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

EDPS 501 - Psychology of Adolescence
Study of the physical, cognitive, affective and social behavior and development of adolescents; their relation to family, peer group, school and society, with reference to youth here and abroad. __Credit Hours: 2 hrs

EDPS 502 - Basic Concepts in Educational Psychology
Review and critical assessment of major issues in the areas of human growth and development, learning and technology, personality and mental health, and measurement and evaluation. __Credit Hours: 2 hrs

EDPS 504 - Nature and Identification of the Gifted
The study of the nature of giftedness, the characteristics and needs of gifted students, and the issues involved in the identification and development of the gifted. __Credit Hours: 2 hrs

EDPS 509 - Students' Emotional Wellness in Educational Environments
Deals theoretically and practically with concerns of teachers and parents regarding deterrents to students’ psychological wellness. Focuses on ecological factors as stressors and strategies to lessen their effects on learners. __Credit Hours: 3 hrs

EDPS 512 - Theories of Cognitive Intelligence
An examination of various Western theories of intelligence, their development and their cultural impact. An emphasis placed on application to the teaching and learning process. __Credit Hours: 2 hrs

EDPS 514 - Multiple Intelligences and Learning Styles
An examination of the theory of multiple intelligences and learning styles with an emphasis on application to the teaching and learning process. __Credit Hours: 2 hrs

EDPS 535 - Measurement and Evaluation of Adult Learners
Designed to assist teachers of adults to become familiar with the construction and uses of teacher-made and selected standardized tests suitable for placement, diagnosis, individualizing instruction and evaluating student achievement. Treats measurement issues unique to adult learners. __Credit Hours: 2 hrs _Prerequisites: department permission

EDPS 550 - Motivation to Learn
Explores a variety of motivational theories that influence academic achievement and success. The educator will develop strategies for increasing students’ motivation to learn. __Credit Hours: 2 hrs

EDPS 590 - Special Topics
The content will include current relevant topics and will vary from semester to semester. Special topics not included in the usual course offerings, but within the domain of educational psychology, will be considered. See appropriate schedule. __Credit Hours: 1 hr

EDPS 591 - Special Topics
The content will include current relevant topics and will vary from semester to semester. Special topics not included in the usual course offerings, but within the domain of educational psychology, will be considered. See appropriate schedule. __Credit Hours: 2 hrs

EDPS 592 - Special Topics
The content will include current relevant topics and will vary from semester to semester. Special topics not included in the usual course offerings, but within the domain of educational psychology, will be considered. See appropriate schedule. __Credit Hours: 3 hrs

EDPS 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

EDPS 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

EDPS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

EDPS 600 - Human Development
The study of social, emotional, physical and mental growth processes and developmental stages from birth through adolescence and their implications for learning and teaching. Students are expected to pursue an in-depth analysis of research, theory and issues in the field commensurate with the experiential background which they bring to the course. __Credit Hours: 2 hrs

EDPS 602 - Psychology of the Adult Learner
The course focuses on characteristics of the adult learner, adult learning styles, understanding learning theories, information processing, and principles of learning and motivation. Participants will discover their
own strategies of learning, motivation and decision-making, and skills in creating rapport with adult learners. Emphasis will be on the application of learning-theory concepts and teaching skills to the participant's instructional setting. __Credit Hours: 2 hrs

EDPS 603 - Principles of Classroom Learning

Major principles of learning are examined for their applications in a classroom setting. Recent contributions are studied and the value of learning theories for the teacher is discussed. __Credit Hours: 2 hrs

EDPS 605 - Mental Health of Educators

This course focuses on the mental health and well-being of the teacher. It is designed to address issues of professional and personal development by challenging students to develop new knowledge and skills and to examine and test, through critical analysis and application, the relevance of course content in their own lives and in the lives of their students. __Credit Hours: 2 hrs

EDPS 606 - Colloquium in Educational Psychology

Academic seminars centered upon a broad field of study involving several different lecturers from within and outside of the department. See appropriate schedule for announcement. __Credit Hours: 1 hr

EDPS 607 - Colloquium in Educational Psychology

Academic seminars centered upon a broad field of study involving several different lecturers from within and outside of the department. See appropriate schedule for announcement. __Credit Hours: 1/2/3 hrs

EDPS 608 - Colloquium in Educational Psychology

Academic seminars centered upon a broad field of study involving several different lecturers from within and outside of the department. See appropriate schedule for announcement. __Credit Hours: 3 hrs

EDPS 611 - Piaget for Educators

A systematic summary and analysis of Piagetian theory and research. Applications to the helping professions from infancy through adulthood will be made. Students will conduct interviews with children, adolescents and/or adults and make recommendations for intervention. Students will evaluate educational materials, teaching strategies and instructional methods from a Piagetian framework. __Credit Hours: 2 hrs

EDPS 614 - Psychology of Creativity for Educators

A study of the various aspects of creativity; the person, the environment, the process, with emphasis on their implications for teaching. The course also will focus on teacher procedures and methods for facilitating students' creative behavior in the classroom. __Credit Hours: 2 hrs

EDPS 617 - Children in Poverty: Educational Implications

Course analyzes the critical poverty conditions of young children and families, and implications for educators. Emphasis is on social-psychological development, educational advocacy and interventions that promote understanding of ethnic, cultural and socioeconomic diversity. __Credit Hours: 2 hrs  Prerequisites: This course is cross-listed with WGST617

EDPS 620 - Self-Concept, Self-Esteem and Individual Difference

An examination of the construction of self-concept, self-esteem, self-efficacy and identity development with special attention to dimensions of diversity. This course assumes a basic understanding of human development. __Credit Hours: 2 hrs

EDPS 621 - Statistical Applications in Educational Research

Emphasizes the role of statistics in hypothesis testing; statistical applications in visually presenting and summarizing data; computation of central tendency, variability, relationship and prediction indices; and interpretation of results. __Credit Hours: 2 hrs

EDPS 626 - Principles and Issues in Educational Assessment

Principles of good classroom assessment are explored in depth. Students will learn the characteristics of high quality assessment that apply to both classroom and standardized assessments. Current assessment topics, including state and federal legislation and mandates, and ethical and legal issues are investigated. __Credit Hours: 3 hrs

EDPS 627 - Designing Classroom Assessments

This course will address all types of classroom assessment. It will focus on development, selection and appropriate use of high quality assessment. The course will also address management of assessment and the relations among assessment, learning and motivation: __Credit Hours: 3 hrs

EDPS 628 - Analyzing Student Learning

Participants will use assessment data to analyze and improve learning. Students will evaluate all types of assessment data, including both classroom-based and standardized assessments. They will make recommendations about learning based on a thorough analysis of the information. __Credit Hours: 3 hrs

EDPS 629 - Assessment and Program/School Improvement

This course will focus on methods of 1) assessment, 2) program evaluation and 3) accreditation and how they can be used to evaluate the effectiveness of programs offered by schools and universities to improve student learning. __Credit Hours: 3 hrs

EDPS 631 - Measurement and Evaluation

A study of the construction and use of teacher-made tests, rating scales, questionnaires, checklists and similar measures. Also includes the administration of
EDPS 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist, capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

EDPS 640 - School Violence: A Holistic Approach to Prevention and Intervention
An examination of the origins and manifestations of school violence, including families, poverty, media, gender, culture, sexual orientation, bullying, gangs, isolation and harassment with special attention to prevention and intervention strategies for victims, perpetrators and the school culture. __Credit Hours: 3 hrs

EDPS 651 - Inferential Statistics
Inferential statistics, both parametric and nonparametric; theory of hypothesis testing. __Credit Hours: 2 hrs __Prerequisites: EDPS621 or equivalent

EDPS 660 - Grantwriting
This course is designed to help students develop and improve their grantwriting and grantsmanship skills and knowledge. The course topics include, but are not limited to, developing a fundable idea, writing a quality proposal and locating sources of funding. __Credit Hours: 2 hrs __Cross-listed: This course is cross-listed EDLD660

EDPS 667 - Principles of Educational Research
Basic concepts in understanding and evaluating contemporary educational research, addressing both quantitative and qualitative research methods. The focus is on critical understanding of, rather than production of, research. __Credit Hours: 3 hrs

EDPS 674 - Survey Research and Data Analysis
The understanding and application of survey research concepts, designs and procedures; organization, coding and calculation of descriptive statistics and factor analysis; use of statistical packages; critical evaluation of survey research; interpretation of results. __Credit Hours: 3 hrs

EDPS 677 - Methods in Quantitative Research
Course provides students with a general understanding of different paradigms, key concepts, and ethical issues in research. Major emphasis is on the design and interpretation of quantitative research studies, including problem and hypothesis formulation, research design, data collection, data analysis and interpretation. Focus is on critical appraisal of published research. __Credit Hours: 3 hrs

EDPS 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

EDPS 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

EDPS 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

EDPS 682 - Workshop in Educational Psychology
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

EDPS 683 - Workshop in Educational Psychology
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

EDPS 684 - Workshop in Educational Psychology
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

EDPS 685 - Workshop in Educational Psychology
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 4 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

EDPS 687 - Qualitative/Interpretive Research
Course provides graduate students with a general understanding of different research paradigms, key research concepts, and ethical issues in research. The major emphasis of the course is on qualitative data-gathering methods, narrative inquiry and interpretive analysis; including ethnography,
phenomenology, action research, feminist research, case studies, grounded theory and archival research. __Credit Hours: 3 hrs

EDPS 690 - Thesis
Individual research conducted under the guidance of, and in consultation with, a thesis committee. __Credit Hours: 1 hr __Prerequisites: department permission

EDPS 691 - Thesis
Individual research conducted under the guidance of, and in consultation with, a thesis committee. __Credit Hours: 2 hrs __Prerequisites: department permission

EDPS 692 - Thesis
Individual research conducted under the guidance of, and in consultation with, a thesis committee. __Credit Hours: 3 hrs __Prerequisites: department permission

EDPS 694 - Seminar in Educational Psychology
Students in educational psychology prepare final culminating project or proposal for thesis. __Credit Hours: 2 hrs __Prerequisites: near completion of educational psychology program

EDPS 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 1 hr __Notes: Must be done with approval of a full-time member of the departmental faculty.

EDPS 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 2 hrs __Notes: Must be done with approval of a full-time member of the departmental faculty.

EDPS 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a faculty member. __Credit Hours: 3 hrs __Notes: Must be done with approval of a full-time member of the departmental faculty.

Education Studies

EDST 800 - Seminar 1 Introduction to Education Studies: Scholarships, Teaching and Learning
This seminar provides an overview of the scholarship foundations for educational studies, including history, philosophy, theory and research. Examined within a global and community context, students develop skills and the knowledge base for successful integration into their doctoral studies and future as scholars. __Credit Hours: 3 hrs __Prerequisites: Master's Degree and Admission to Ph.D. program or department permission. Must be in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs.

EDST 801 - Seminar 2: Education, Democracy and Social Thought
This doctoral course introduces the history of social thought, emphasizing education for democratic communities. Focusing on the US context, the course examines a broad range of social and philosophical perspectives to analyze the role of educational policy and practice for the development of democratic citizens in the 21st century. __Credit Hours: 3 hrs __Prerequisites: Master's Degree and admission to Ph.D. program or department permission; EDST800; Must be in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs.

EDST 802 - Seminar 3: Education, Communities and Globalization
Examines the impact of globalization on children, families, communities and institutions and analyzes the economic, social and educational policies shaping public health, the environment, housing, technology, food security, work, child care, and public education. Implications for educational practice and research in diverse contexts are emphasized. __Credit Hours: 3 hrs __Prerequisites: Master's Degree and Admission to Ph.D. program or department permission; EDST800 and EDST801; Must be in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs.

EDST 805 - Quantitative Methods I
Foci include the components of quantitative research design and descriptive statistics applied to critically evaluating published research. Specifically, statement of problem, review of pertinent literature, hypothesis formation, research design, hypothesis testing, descriptive data analysis, reporting and interpreting results. Descriptive statistics covered include measures of central tendency, variability, relation and prediction. __Credit Hours: 3 hrs __Prerequisites: Master's Degree and admission to Ph.D. program or department permission; Must be in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs.

EDST 806 - Qualitative Methods
Credit Hours: 3 hrs __Prerequisites: Master's Degree and admission to the Ph.D. program or department permission; Must be in either the Ph.D. in Educational Studies or in the Ph.D. in Educational Leadership programs.

EDST 807 - Advanced Quantitative Methods
The course covers various statistical techniques currently used in educational and social science research. Foci include inferential statistics, interaction effects in multiple regression, exploratory and confirmatory factor analysis, structural equation modeling, latent growth modeling, and hierarchical linear modeling. __Credit Hours: 3 hrs __Prerequisites: Master's Degree and admission to the Ph.D. program or department permission; Must be in either the Ph.D. in Educational Studies or in the Ed.D. in Educational Leadership programs.

EDST 808 - Advanced Qualitative Methods
Students planning to write a qualitative dissertation intensely explore the diverse ways interpretive research is conducted,
analyzed and transformed into narrative texts in this advanced qualitative research course. Students design and conduct a qualitative research study, engage in critical self-reflective analysis, peer critiques, and respond to peer and professor critiques. 
_Credit Hours: 3 hrs _Prerequisites: Master's Degree and admission to the Ph.D. program or department permission; EDST805, EDST806 and EDPS687; Must be in either the Ph.D. in Educational Studies or in the Ed.D. in Educational Leadership programs.

**EDST 810 - Research Internship/Applications**

The internship is a field-based experience designed to provide practical experience as a professional and scholar in educational studies through supervised participation in activities related to research, teaching, administration and/or outreach. 
_Credit Hours: 3 hrs _Prerequisites: EDST805, EDST806 and EDST807 or EDST808

**EDST 895 - Dissertation Proposal Seminar**

Designed for the doctoral student who has identified the topic for his or her dissertation research and will focus on the production and evaluation of proposals for the doctoral dissertation. 
_Credit Hours: 3 hrs _Prerequisites: Admission to candidacy and permission of a student's dissertation advisor and the graduate program coordinator. 
_Notes: Offered on a credit/no credit basis.

**EDST 896 - Dissertation**

Designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student's effort on the dissertation in a given semester. 
_Credit Hours: 3 hrs _Prerequisites: Admission to candidate status and successful completion of EDST895. 
_Notes: Offered on a credit/no credit basis.

**EDST 897 - Dissertation**

Designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student's effort on the dissertation in a given semester. 
_Credit Hours: 2 hrs _Prerequisites: Admission to candidate status and successful completion of EDST895. 
_Notes: Offered on a credit/no credit basis.

**EM 505 - Managing Engineering and Technology**

An investigation of the functions and problems unique to managing engineering and technical operations. Topics include: engineering ethics and professionalism; managing research, design and other technical operations; technology impact; and the role of the technical professional. 
_Credit Hours: 3 hrs

**EDST 898 - Dissertation**

Designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student's effort on the dissertation in a given semester. 
_Credit Hours: 4 hrs _Prerequisites: Admission to candidate status and successful completion of EDST895. 
_Notes: Offered on a credit/no credit basis.

**EDST 899 - Dissertation**

Designed for the doctoral student who is working on his or her dissertation research. Enrollment in the various courses will reflect the student's effort on the dissertation in a given semester. 
_Credit Hours: 6 hrs _Prerequisites: Department permission

**EDUC 499 - Student Teaching (regular education)**

Credit Hours: 6 hrs

**Student Teaching**

**EDUC 500 - Professional Educator Development Program**

For in-service professional and personal development. Not applicable to an advanced degree. 
_Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

**EDUC 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. 
_Credit Hours: 1 hr _Prerequisites: department permission

**Engineering Management**

**EM 511 - Manufacturing Engineering Fundamentals**

A structured review of manufacturing engineering fundamentals including materials, product design, production systems, manufacturing processes, automated systems, quality and manufacturing including preparation for the Certified Manufacturing Engineering Exam offered by Society of Manufacturing Engineers. 
_Credit Hours: 3 hrs

**EM 519 - Applied Engineering Project Management**

This course includes advanced applications of software and theory for planning, implementation, management, and analysis of engineering projects. Students will use PMBOK as a guide to understanding the practical aspects of the engineering project life cycle, along with case study discussions and hands-on applications of project management tools and techniques. 
_Credit Hours: 3 hrs _Prerequisites: EM509 or equivalent

**EM 520 - Engineering Value and Economic Analysis**

For in-service professional and personal development. Not applicable to an advanced degree. 
_Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.
The principles and practices of engineering value and economic analysis for the design of products and services, and the economic analysis, value chain analysis and stream value analysis of integrated engineering projects and enterprise business processes. __Credit Hours: 3 hrs

EM 540 - Engineering Resource Management
The study of practices and principle for integrating and managing engineering-related resources. Includes topics in human resource management, material and supply chain management, technology and intellectual property management, knowledge and information system management, facility and maintenance management and financial management. __Credit Hours: 3 hrs

EM 547 - Management of Research, Development and Technology
This course integrates organizational processes and dynamics related to the management of research, development and technology that are essential for managers and technical professionals to know in order to function effectively in technology-oriented business environments. Topics include: applied R&D methods and management of R&D projects, personnel and technology. __Credit Hours: 3 hrs

EM 556 - Lean Systems Team Management
A practical course in the human/organizational aspects of successful lean production implementation. Course will be largely based on research documenting the successful introduction of lean production into existing organizations. __Credit Hours: 3 hrs

EM 558 - Lean Production
Study of lean practices across economic sectors. Class will focus on lean systems whose functions include elimination of waste, reducing costs, shortening cycle times, quality improvement, optimization of sociotechnical systems and the process of continuous improvement. __Credit Hours: 3 hrs __Cross-listed: QUAL558

EM 570 - Patents and Engineering Law
This course investigates legal issues in engineering such as patents, trademarks, product liability and contacts. Case studies, court decisions and research are an integral part of the course. __Credit Hours: 3 hrs

EM 580 - Engineering and Enterprise Integration
The study of engineering and enterprise integration systems for engineers, managers and technologists, and a structured review for individuals planning to take the Certified Enterprise Integrator (CEI) and/or Certified Engineering Manager (CEM) examinations. Topics include certification test preparation and taking techniques; the engineering and enterprise integration system; customer focus; people, teamwork and organization; shared knowledge systems; business processes; resources and responsibilities; and external enterprise influences. __Credit Hours: 3 hrs __Prerequisites: department permission

EM 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

EM 597 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 1 hr __Prerequisites: department permission

EM 598 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 2 hrs __Prerequisites: department permission

EM 599 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 3 hrs __Prerequisites: department permission

EM 609 - Professional Project Management
A structured review for project management professional who plan to take the Certified Associate in Project Management (CAPM) or Project Management Professional (PMP) certification examination, based on the Project Management Institute’s Body of Knowledge (PMBOK) Guide. __Credit Hours: 3 hrs __Prerequisites: EM519 Applied
Engineering Project Management or equivalent

**EM 620 - Integrated Product and Process Design**
This course will focus on the integration of three enterprise processes: product development, process planning and manufacturing systems. Emphasis will be placed on a) customer focus, b) concurrent/collaborative engineering and product/process design improvement approaches, and c) the insourcing/outsourcing decision process. E-business as it relates to collaborative product design with suppliers will also be addressed. __Credit Hours: 3 hrs _Prerequisites: EM509 and EM649 or MKTG510 and POM503 or their equivalents

**EM 636 - Analysis of Manufacturing Processes**
An advanced course in the technical aspects of manufacturing cast, formed and machined products. Emphasis is on the determination of production parameters, such as shapes, forces and temperatures required to process various materials. __Credit Hours: 3 hrs

**EM 639 - Continuous Enrollment**
Graduate students who are completing research (master's or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**EM 641 - Materials of Industry**
Selected industrial materials: sources, properties, characteristics, analysis and testing. __Credit Hours: 2 hrs

**EM 649 - Manufacturing Process Planning**
The design of the manufacturing process as required by product design specifications.

**EM 659 - Advanced Lean Systems**
A class in advanced lean practices as applied in manufacturing. Focus will be on the practical aspects on implementing and maintaining production systems capable of continuous improvement. In-depth treatment will be given value stream analysis as defined by customers, lean logistics, lean cost accounting, total productive maintenance, zero defect quality practices and the integration of human resource practices within the production strategy. __Credit Hours: 3 hrs _Prerequisites: EM659 and/or EM670 or their equivalents

**EM 660 - Advanced Lean Systems**
The design of the manufacturing process as applied in manufacturing. Selection of processes, tooling, workholding, gauging, routing and material handling, as well as the development of human interface. __Credit Hours: 3 hrs

**EM 669 - Professional Lean Certification**
A structured review of knowledge and application of principles for lean management professionals who plan to take the Bronze, Silver, or Gold Lean Certification examination, based on the Shingo/SME/AME Lean Certification Body of Knowledge. __Credit Hours: 3 hrs _Prerequisites: EM659 or EM670 or their equivalents

**EM 670 - Design for Manufacture and Assembly**
This course investigates the management of product and process design activities. It is intended for anyone involved in product design, manufacturing engineering, process engineering or manufacturing management. The course investigates design for manufacturing and assembly, quality function deployment, value analysis, failure modes and effects analysis, error/mistake proofing, team dynamics and design for "X." __Credit Hours: 3 hrs _Prerequisites: EM511 or EM636

**EM 676 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

**EM 681 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

**EM 684 - Workshop**
Students will be provided practical and theoretical study in a selected topic area. __Credit Hours: 3 hrs _Prerequisites: department permission

**EM 688 - Industrial Internship**
A field study of industrial theory and practice through internship experiences with cooperating industries. Designed for students desiring experiences beyond those obtained in their previous or present employment. __Credit Hours: 2 hrs _When Offered: Offered on a credit/no-credit basis

**EM 690 - Development Project**
A theory application project conducted under the supervision of an adviser and departmental graduate committee. __Credit Hours: 1 hr _Prerequisites: Department permission and 12 hours in one's graduate concentration

**EM 690 - Thesis**
A research-oriented study conducted under the supervision of an adviser and departmental graduate committee, and under the guidelines described in the EMU Thesis Manual. _Credit Hours: 1 hr _Prerequisites: department permission

EM 690 - Thesis
A research-oriented study conducted under the supervision of an adviser and departmental graduate committee, and under the guidelines described in the EMU Thesis Manual. _Credit Hours: 1 hr _Prerequisites: department permission

EM 691 - Development Project
A theory application project conducted under the supervision of an adviser and departmental graduate committee, and under the guidelines described in the EMU Thesis Manual. _Credit Hours: 2 hrs _Prerequisites: Department permission and 12 hours in one’s graduate concentration

EM 691 - Thesis
A research-oriented study conducted under the supervision of an adviser and departmental graduate committee, and under the guidelines described in the EMU Thesis Manual. _Credit Hours: 2 hrs _Prerequisites: department permission

EM 692 - Thesis
A research-oriented study conducted under the supervision of an adviser and departmental graduate committee, and under the guidelines described in the EMU Thesis Manual. _Credit Hours: 3 hrs _Prerequisites: department permission

EM 693 - Seminar
A research-oriented course for graduate majors. _Credit Hours: 1 hr _Prerequisites: department permission

EM 694 - Seminar
A research-oriented course for graduate majors. _Credit Hours: 2 hrs _Prerequisites: department permission

EM 695 - Seminar
A research-oriented course for graduate majors. _Credit Hours: 3 hrs _Prerequisites: department permission

EM 697 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 3 hrs _Prerequisites: department permission

English

ENGL 408 - Writing for Writing Teachers
A writing course for students preparing to teach English in secondary schools. Students develop their skills as writers and learn how to teach writing. Special focus on recent composition research, theory, and practices, and on strategies, materials and evaluation techniques. _Credit Hours: 3 hrs _Prerequisites: any two ENGL courses at the 200-, 300- or 400-level; admission to the College of Education _Notes: This is an undergraduate course available for graduate credit.

ENGL 409 - Teaching English in the Secondary Schools
For secondary English education majors with focus on appropriate methods and materials for teaching language arts in grades 7-12. Special attention will be given to lesson planning, evaluation techniques and classroom management. _Credit Hours: 3 hrs _Prerequisites: CURR305, LING201 and one LITR course at the 300-level; admission to the college of education _Notes: This is an undergraduate course available for graduate credit.

ENGL 417 - Writing about Controversies
The reading, analysis and writing of argumentative essays on different types of controversies, with emphasis on how to use
various types of arguments and appeals for different readers and on the different forms of written arguments. __Credit Hours: 3 hrs __Prerequisites: any two, 200-or-300 level, ENGL courses __Notes: This is an undergraduate course available for graduate credit.

**ENGL 424 - Technical Writing**
An advanced workshop that prepares students to communicate, particularly to write, on the job. __Credit Hours: 3 hrs __Prerequisites: ENGL324 __Notes: This is an undergraduate course available for graduate credit.

**ENGL 427 - Technical Editing**
Editing of technical material for publication. Principles of style, format, graphics layout and publication management. __Credit Hours: 3 hrs __Prerequisites: ENGL324 __Notes: This is an undergraduate course available for graduate credit.

**ENGL 428 - Writing Computer Documentation**
An advanced writing course that introduces students to the principles of designing, preparing and testing documents common in the computer industry, particularly software documentation for users. __Credit Hours: 3 hrs __Prerequisites: COSC101 and ENGL324 or department permission __Notes: This is an undergraduate course available for graduate credit.

**ENGL 444 - Writing for the World Wide Web**
An advanced writing course focused on composing documents for publication on the World Wide Web and other electronic spaces, such as interactive CD-ROMs. __Credit Hours: 3 hrs __Prerequisites: ENGL121 and ENGL225, ENGL300 or any 300-level ENGL class __Notes: This is an undergraduate course available for graduate credit.

**ENGL 501 - Writing and Rhetorical Theory I**
The reading, study and analysis of representative selections from rhetorical theorists from the Sophists through the Renaissance. Emphasis on how to evaluate, explore and apply theory to writing and its teaching. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 502 - Writing and Rhetorical Theory II**
The reading, study and analysis of representative selections from rhetorical theorists since the Renaissance. Emphasis on how to evaluate, explore and apply theory to writing and its teaching. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 503 - Rhetorical Theory and the Teaching of Writing**
A thematic course in which students read, study and analyze representative selections from classical, medieval, renaissance and modern theorists. Emphasis on applying rhetorical theories to writing and language instruction. __Credit Hours: 3 hrs __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 504 - Rhetoric of Science and Technology**
Through reading, research and analysis, students will study theoretical positions, discourse conventions and stylistic features of writing done by professionals in scientific and technological fields. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 505 - Rhetoric of Science and Technology**
A review of current theory for constructing computerized composition and for applying computers in teaching writing at secondary and postsecondary levels. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 506 - Topics in the Teaching of Writing**
An in-depth look at a specific topic in the teaching of writing. Topics vary from year to year, with offerings ranging from pedagogy topics to theory topics to specific theorists. __Credit Hours: 3 hrs __Prerequisites: ENGL514 __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 515 - Literacy and Written Literacy**
Graduate seminar on acquisition of written literacy. Emphasis on current theoretical approaches to written literacy, and applications for teaching writing at secondary and postsecondary levels. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 516 - Computers and Writing: Theory and Practice**
A review of current theory for constructing computerized composition and for applying computers in teaching writing at secondary and postsecondary levels. __Credit Hours: 3 hrs __Prerequisites: graduate student in English __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 517 - Topics in English Education**
An in-depth look at a specific topic in English education. Topics vary from year to year, with offerings ranging from pedagogy topics to theory topics to specific theorists. __Credit Hours: 3 hrs __Prerequisites: ENGL514 __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

**ENGL 518 - Topics in English Education**
An in-depth look at a specific topic in English education. Topics vary from year to year, with offerings ranging from pedagogy topics to theory topics to specific theorists. __Credit Hours: 3 hrs __Prerequisites: ENGL514 __Notes: Open only to students admitted to graduate programs in English
An in-depth look at a specific topic in Communication.

ENGL 524 - Advanced Technical Writing and Research
This course continues ENGL 424 Technical Writing and is designed to prepare students to write professionally in business and industry. Students will research appropriate information and prepare oral and written reports, proposals, brochures and manuals. __Credit Hours: 3 hrs __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 525 - Advanced Public Relations Writing
Theory and practice of writing for public relations. Emphasis on writing to resolve real-world problems from corporate and agency public relations. __Credit Hours: 3 hrs __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 526 - Topics in Technical Communication
An in-depth look at a specific topic in technical communication. Topics vary from year to year, with offerings ranging from applied topics to specific theorists. __Credit Hours: 3 hrs __Prerequisites: ENGL 524 or ENGL 525. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 527 - Topics in Professional Communication
An in-depth look at a specific topic in professional communication. Topics vary from year to year, with offerings ranging from applied topics to specific theorists. __Credit Hours: 3 hrs __Prerequisites: ENGL 524 or ENGL 525. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 530 - Issues in English Studies for Teachers
An introduction to foundational and current issues in the field of English Education. Students will study the work of leading scholars, past and present controversies and recurring areas of concern which have helped shape the discipline. __Credit Hours: 3 hrs

ENGL 531 - Teacher as Writer
An exploration of individual writing processes and strategies, designed to help writing teachers understand and improve their own writing; understand and improve their own pedagogies for teaching writing; and learn venues and opportunities for publishing their writing. __Credit Hours: 3 hrs

ENGL 535 - Teacher Research Seminar
A two-semester course in methods and strategies of teacher research and ongoing support for an individual classroom-based research and ongoing support for an individual classroom-based research project. Students will learn to design research questions, collect and analyze data and represent their findings in a publishable form. __Credit Hours: 6 hrs __Prerequisites: ENGL 530 and 12 credit hours in the program

ENGL 538 - Teaching Basic Writing at the College Level
Designed to prepare future teachers of basic writing at the community college and/or college level. Course introduces theoretical and pedagogical issues related to defining basic writing and "basic writers" and provides opportunity for developing teaching strategies for work with students in basic writing courses. __Credit Hours: 3 hrs __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 593 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: graduate student in English. __Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.
ENGL 594 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 5 hrs_ Prerequisites: candidate for the M.A.; permission of the graduate committee. Graduate student in English or department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 596 - Teaching Composition on the College Level
A course in the methods of teaching English composition, with particular attention to beginning courses on the college and junior college level. Required of all graduate assistants and open to other interested M.A. candidates. _Credit Hours: 3 hrs _Prerequisites: graduate student in English. _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 597 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a faculty member. _Credit Hours: 1 hr _Prerequisites: candidate for the M.A.; permission of the graduate committee. Graduate student in English or department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 598 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a faculty member. _Credit Hours: 2 hrs _Prerequisites: candidate for the M.A.; permission of the graduate committee. Graduate student in English or department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 621 - Research in Theory and Practice of Writing
A course designed to prepare students in methods of research on writing, pedagogy, professional writing and written discourse. Frequent projects, requiring research and writing. _Credit Hours: 3 hrs _Prerequisites: nine hours of ENGL courses in written communications; graduate student in English _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 649 - Eastern Michigan Writing Project Summer Institute
For practicing K-12 teachers across disciplines. Participants investigate and experience current practices in literacy instruction. Based upon National Writing Project assumptions, participants read, write and reflect upon their teaching. _Credit Hours: 5 hrs _Prerequisites: graduate student in English or department permission _Cross-listed: This course is cross-listed with CURR675 _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 675 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: graduate student in English _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 680 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: graduate student in English _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 681 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: graduate student in English _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 692 - Thesis
Students will design and complete an extensive research study under the guidance of a thesis director and committee. _Credit Hours: 3 hrs _Prerequisites: ENGL621 and department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by
ENGL 693 - Master’s Writing Project
Students will design and complete four documents, including a research article for a professional publication, under the guidance of a project director and a committee. __Credit Hours: 3 hrs _Prerequisites: ENGL621 and department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 694 - Teacher Research/Professional Writing Internship
Designed to provide a cohort group and ongoing support for teachers engaged in classroom-based research and for technical and professional writers engaged in workplace research. One option for the culminating experience for the master’s degree in written communication. __Credit Hours: 3 hrs _Prerequisites: ENGL621, department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 697 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a faculty member. __Credit Hours: 3 hrs _Prerequisites: candidate for the M.A.; permission of the graduate committee; graduate student in English or department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ENGL 698 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a faculty member. __Credit Hours: 2 hrs _Prerequisites: candidate for the M.A.; permission of the graduate committee; graduate student in English or department permission _Notes: Open only to students admitted to graduate programs in English language and literature. Others by department permission.

ESLN 512 - Academic Writing for International Graduate Students
Students engage in extensive critical reading and analysis of discipline-specific topics and compose well-documented papers on the basis of their research using standard English conventions and documentation. Attention is given to grammatical accuracy and language usage in written assignments. __Credit Hours: 3 hrs _Prerequisites: department permission _Corequisite: _ESLN410

ESLN 515 - Graduate ESL Seminar in Academic Communication
This course is designed for non-native speakers of English to improve their oral communication skills for participation in graduate-level classes in their degree program. Students read authentic academic texts and develop skills and strategies for oral presentations and critical response. A major emphasis is on having students learn academic vocabulary and enhance reading skills. __Credit Hours: 3 hrs _Prerequisites: department permission.

ESLN 519 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

ESLN 520 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

ESLN 592 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

ESLN 597 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ESLN 598 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

ESLN 599 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ESLN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission
ESLN 679 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

ESLN 680 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

ESLN 681 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

ESLN 697 - Independent Study
Intensive study of a language-related problem for students of English as a second language, under the direction of a member of the graduate faculty. __Credit Hours: 1 hr _Prerequisites: department permission

ESLN 698 - Independent Study
Intensive study of a language-related problem for students of English as a second language, under the direction of a member of the graduate faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

ESLN 699 - Independent Study
Intensive study of a language-related problem for students of English as a second language, under the direction of a member of the graduate faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

Earth Science

ESCC 414 - Teaching Science with Dinosaurs
This course provides pre- and in-service teachers with the content and skills necessary to use dinosaurs as a focus group to teach the scientific method (i.e., science) at the K-12 level. Students will receive hands-on training in numerous dinosaur-based activities designed to directly engage K-12 pupils in all aspects of the scientific method, including data collection, hypothesis formulation and hypothesis testing. __Credit Hours: 3 hrs _Prerequisites: ESSC108, ESSC110 or ESSC202 __

ESCC 425 - Severe and Unusual Weather
Analysis of cyclones, blizzards, thunderstorms, tornadoes, hurricanes and other catastrophic weather phenomena. Their environmental impact and prediction. __Credit Hours: 3 hrs _Prerequisites: ESSC324 _Notes: This is an undergraduate course available for graduate credit.

ESCC 428 - Optical Mineralogy
A study of the optical properties of minerals and the use of the petrographic microscope to identify common minerals in thin section. Lecture/Lab Hours: Lecture: two hours per week; Laboratory: two hours per week. __Credit Hours: 3 hrs _Prerequisites: ESSC228 _Notes: This is an undergraduate course available for graduate credit.

ESCC 430 - Petroleum Geology
A study of the origin, migration and accumulation of petroleum; reservoir analysis, exploration and development techniques. Lecture/Lab Hours: Lecture: two hours per week; Laboratory: two hours per week. __Credit Hours: 3 hrs _Prerequisites: ESSC326 and ESSC330 _Notes: This is an undergraduate course available for graduate credit.

ESCC 439 - Economic Geology
A study of the geochemical behavior of metallic elements; the origin, processes, controls and classification of ore deposits. Lecture/Lab Hours: Lecture: two hours per week; Laboratory: two hours per week. __Credit Hours: 3 hrs _Prerequisites: ESSC329 _Notes: This is an undergraduate course available for graduate credit.

ESCC 448 - Hydrogeology
Subsurface water occurrence, distribution, relationships to surface water and precipitation; subsurface flow, especially as related to well water production; tests of aquifers; well drilling and installation; ground water exploration and recharge; legal problems. __Credit Hours: 3 hrs _Prerequisites: ESSC200 and either MATH105 or MATH107 or MATH112 or MATH120 or MATH122 _Notes: This is an undergraduate course available for graduate credit.

ESCC 450 - Lake and Coastal Management
An analysis of modern coastal management problems of inland lakes and Great Lakes coasts. Selected topics include beach erosion, dredging, loss of wetlands, wildlife habitat degradation and impact of shoreland development. __Credit Hours: 3 hrs _Prerequisites: ESSC250 or ESSC350 _Notes: This is an undergraduate course available for graduate credit.

ESCC 459 - Aquifer Analysis
Study of the analysis of aquifer parameters and groundwater flow using analytical, numerical and statistical computer methods. __Credit Hours: 3 hrs _Prerequisites: ESSC448 _Notes: This is an undergraduate course available for graduate credit.

ESCC 460 - Contaminant Hydrology
Study of hydrochemistry, pollution pathways and transport of contaminants. __Credit Hours: 3 hrs _Prerequisites: CHEM121/122 and ESSC448 _Notes: This is an undergraduate course available for graduate credit.

ESCC 470 - Quantitative Methods in Geography and Geology
Introduction to current techniques and methods applicable to geographic and geologic problems. An applied course emphasizing statistical analyses and computer applications. **Credit Hours:** 3 hrs **Prerequisites:** ESSC110 and MATH104, MATH105, MATH107, MATH112, MATH120 or MATH122. Notes: This is an undergraduate course available for graduate credit.

**ESSC 485 - Introduction to Remote Sensing**

Introduction to remote sensing techniques and types of imagery, including multispectral, thermal and radar images. Emphasis on image enhancement and interpretation in regard to land-use planning and resource management. **Credit Hours:** 3 hrs. Notes: This is an undergraduate course available for graduate credit.

**ESSC 495 - Environmental Assessment and Planning**

An examination of the program elements of environmental impact statements. Geobased data sources are explored and analyzed. Impact statements are prepared by the class and existing impact statements are evaluated. **Credit Hours:** 3 hrs. **Prerequisites:** ESSC110 or GPLN215. Notes: This course is cross-listed with GPLN495.

**ESSC 520 - GIS Introduction for Educators**

This course is intended as an introductory to geographic information system courses for educators with some computer experience, but no previous GIS experience. The course is designed to open up the world of GIS to the professional educators. The course will include readings and online discussions followed by hands-on exercises. **Credit Hours:** 3 hrs. **Prerequisites:** a teaching certificate in science, social science, or business application, or computer information technology or department approval. Notes: This course is cross-listed with GEOG520.

**ESSC 522 - Internet GIS for Educators**

This course explores the availability of internet-based GIS tools and data sources and their applicability to the development of K-16 curriculum materials. Participants will investigate a variety of online mapping tools, as well as sources of spatial data that can be integrated into a GIS. Learners will develop an understanding of the purpose and need for accurate metadata when using Internet based data sources. **Credit Hours:** 3 hrs. **Prerequisites:** a teaching certificate in science, social science, business application, computer information technology or department approval. Notes: This course is cross-listed with GEOG522.

**ESSC 524 - GIS As an Instructional Tool in Classrooms**

This course surveys current instructional applications of Geographic Information Systems. Participants will explore strategies for integrating GIS within a variety of K-16 instructional environments. In addition, learners will develop simple, introductory instructional materials intended to introduce students to GIS as a tool for data display, symbolization and analysis. **Credit Hours:** 3 hrs. **Prerequisites:** GEOG/ESSC520 and GEOG/ESSC522. Notes: This course is cross-listed with GEOG524.

**ESSC 557 - Field Investigations in Earth Science**

A summer session course, specifically designed for secondary teachers, emphasizes basic field data gathering techniques and data analysis. Exercises include geology, meteorology and environmental science that can be directly utilized in the classroom. **Credit Hours:** 6 hrs. **Prerequisites:** Admission to the graduate program in Earth Science Education and department permission is required. Notes: This course is designed for secondary teachers, and is available to earth science education masters only. Admission to the graduate program in earth science education is required. **Credit Hours:** 3 hrs.

**ESSC 565 - New Approaches to Teaching Earth Science**

This course will explore advanced methods for teaching earth science. Various ways to incorporate writing into the teaching of earth science will be discussed, including techniques for inserting writing into earth science without overtaxing the assessment process. Differentiation will be explored for both special education students and TAG students. Finally, advanced activities for use in the classroom will be examined. Available to earth science education masters only. Admission to the graduate program in earth science education is required. **Credit Hours:** 3 hrs.

**ESSC 566 - Advanced Plate Tectonics for Educators**

This course, specifically designed for secondary teachers, is an in-depth examination of plate tectonics. We will examine continental drift, sea floor spreading, driving mechanisms, boundary interactions, origin of magma, earthquakes, consequences of plate dynamics and the tectonic history of the earth emphasizing the major orogenic events that shaped the planet. Available to earth science education masters only. Admission to the graduate program in earth science education is required. **Credit Hours:** 3 hrs.

**ESSC 567 - Paleoclimatology**

Causes and effects of natural climate change throughout Earth’s history. Topics include analytical methods used to reconstruct past climates, tectonic effects, interplay between oceanic and atmospheric circulation, ice ages climates and glaciations, corals and El Niño. Emphasis is placed on events of the last 2.7 million years. Available to earth science education masters only. Admission to the graduate program in earth science education is required. **Credit Hours:** 3 hrs.

**ESSC 569 - Principles of Hydrology for Educators**

Introduction to the properties and processes that create weather, including an analysis of conditions aloft, the formation of storms, and methods and problems of weather forecasting. Lecture: two hours per week.
An examination of the physical aspects of water in the environment. The hydrologic cycle, water balances, drainage basin analysis and ground water characteristics are highlighted. Methods to teach these subjects at the secondary level are also introduced. Available to Earth Science Education masters only. __Credit Hours: 3 hrs __Prerequisites: department permission

ESSC 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

ESSC 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

ESSC 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

ESSC 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

ESSC 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

ESSC 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

ESSC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

ESSC 665 - Professional Paper
The student is expected to investigate some area of earth science or earth science educational theory or practice, gather and analyze information, draw conclusions to add to the body of knowledge and write a paper of publishable quality completed in consultation with a faculty adviser. Available to earth science education masters only. __Credit Hours: 3 hrs __Prerequisites: ESSC470/565

ESSC 667 - School GIS Project
School GIS projects emphasizing comprehensive mastery of GIS concepts and techniques in schools applications. Particular topics are chosen on requests in school administration, student services, student field research and student career development. These projects are selected and designed to enable participants to engage in using GIS for problem solving in our schools. __Credit Hours: 3 hrs __Prerequisites: GEOG/ESSC520 and GEOG/ESSC522 __Cross-listed: This course is cross’listed with GEOG667

ESSC 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

ESSC 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

ESSC 689 - GIS Lesson: Plan Development
The course is focused on using State and National Benchmarks to plan, research and develop GIS lessons in a K–16 setting. In this course you will accomplish this by readings, lesson critiques and lesson development using Michigan Climb benchmarks. __Credit Hours: 3 hrs __Prerequisites: GEOG/ESSC524 and GEOG/ESSC667 __Cross-listed: This course is cross’listed with GEOG669

ESSC 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission
ESSC 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

ESSC 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

Finance

FIN 350 - Principles of Finance
A survey course covering the financial operations of business corporations. It begins with a general overview, then goes into detail on several concepts and techniques used in financial decision making. Specific topics emphasized include the time value of money, asset valuation models, risk management and financial statement analysis. The course is designed for the general business student. __Credit Hours: 3 hrs __Prerequisites: ACC240

FIN 502 - Financial Principles
Provides beginning graduate students a solid foundation in the general principles of finance. Provides an appreciation of how businesses and households allocate scarce resources over time and when outcomes are uncertain. The primary focus is corporate finance; the course will also introduce financial markets and institutions, and investments. __Credit Hours: 3 hrs __Prerequisites: ACC501; ECON500 is recommended

FIN 540 - International Finance
The course covers international aspects of financial investment, capital budgeting, risk analysis, joint ventures and acquisitions, forecasting and protecting against exchange rate changes, capital structure problems of multinational corporations, methods of financing, banking and financial reporting. __Credit Hours: 3 hrs __Prerequisites: FIN502

FIN 590 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

FIN 591 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

FIN 592 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: FIN502 or FIN350

FIN 597 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. __Credit Hours: 1 hr __Prerequisites: department permission

FIN 598 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. __Credit Hours: 2 hrs __Prerequisites: department permission

FIN 599 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. __Credit Hours: 3 hrs __Prerequisites: department permission

FIN 615 - Financial Markets and Institutions
The course provides an analytical foundation for understanding the need for, and characteristics of, financial markets. The role of commercial banks and nonbank financial intermediaries is developed in the broader context of the saving-investment process in an economy. __Credit Hours: 3 hrs __Prerequisites: FIN502

FIN 620 - Financial Administration Policies
This course stresses the role of finance in strategic decision making with a view to enhance shareholders' value. Uses the case method of instruction. Topics covered include working capital management, capital budgeting, financing, investment banking, mergers and acquisition, and international finance. Admission to the MBA program is required. __Credit Hours: 3 hrs __Prerequisites: FIN502 or FIN350

FIN 625 - Securities Analysis
This course addresses the major issues of interest to investors and portfolio managers including the optimal allocation of wealth among assets, the valuation of risky assets and the measurement of investment performances of various financial instruments, such as common stocks, bonds, convertibles and options. __Credit Hours: 3 hrs __Prerequisites: FIN502

FIN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

FIN 660 - Advanced Financial Management
This course develops conceptual foundations for making intelligent corporate financial analysis. Advanced concepts in modern corporate finance are examined including issues arising from risky corporate debt, the theory of optimal capital structure, agency theory and economic effects of taxation. Special topics include raising external capital, dividend policy and share repurchases. __Credit Hours: 3 hrs __Prerequisites: FIN620
FIN 670 - Risk Management with Derivatives
This course introduces the basic concepts, principles, and practices of derivative securities with primary focus on options and futures contracts. The course will cover derivative markets, pricing of options and futures contracts, and financial risk management. Advanced hedging strategies and securities innovation including real options will be introduced. _Credit Hours: 3 hrs_ _Prerequisites: FIN502

FIN 679 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr_ _Prerequisites: FIN620

FIN 680 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs_ _Prerequisites: FIN620

FIN 681 - Special Topics
An in-depth study of a specialized area in finance. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs_ _Prerequisites: FIN620

FIN 697 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. _Credit Hours: 1 hr_ _Prerequisites: department permission

FIN 698 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. _Credit Hours: 2 hrs_ _Prerequisites: department permission

FIN 699 - Independent Study
Directed study of problems in finance not otherwise treated in department courses. _Credit Hours: 3 hrs_ _Prerequisites: department permission

General Foreign Language and Bilingual-Bicultural

FLAN 412 - Methods of Teaching Modern Languages in the Elementary Grades
This course is designed to prepare students who have already earned secondary teaching certificates in French, German, Japanese and Spanish for careers as foreign language teachers in elementary (K-6) school settings. _Credit Hours: 3 hrs_ _Prerequisites: senior standing, FLAN411, department permission_ _Notes: This is an undergraduate course available for graduate credit.

FLAN 490 - Internship in Language and International Trade
Credit Hours: 3 hrs _Prerequisites: department permission_ _Notes: This is an undergraduate course available for graduate credit; Offered on a credit/no-credit basis.

FLAN 540 - Cultural Issues in Teaching Languages
This course addresses prospective language teachers’ need to understand the effect of various cultural values on language learning and teaching to develop techniques that will enhance their students’ learning. _Credit Hours: 2 hrs_ _Prerequisites: department permission

FLAN 590 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr_ _Repeatable: Special topics courses may be repeated for credit.

FLAN 591 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs_ _Repeatable: Special topics courses may be repeated for credit.

FLAN 597 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. _Credit Hours: 1 hr_ _Prerequisites: department permission

FLAN 598 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. _Credit Hours: 2 hrs_ _Prerequisites: department permission

FLAN 599 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. _Credit Hours: 3 hrs_ _Prerequisites: department permission

FLAN 611 - Theory and Methods of Modern Language Teaching
The history, theory and techniques of modern language teaching. _Credit Hours: 3 hrs_ _Prerequisites: major or minor in foreign language or department permission

FLAN 612 - Methods of Teaching Modern Languages in the Elementary Grades
This course addresses the history, philosophy, rationale, and curriculum, as well
as developmentally-appropriate techniques, materials, and assessment for teaching foreign languages in the elementary grades. __Credit Hours: 3 hrs _Prerequisites: FLAN611

FLAN 613 - Using Technology in the Foreign Language Classroom
This course focuses on the review, development and integration of audio, computer-assisted and video-interactive technologies in the foreign language classroom. __Credit Hours: 3 hrs _Prerequisites: department permission

FLAN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

FLAN 679 - Special Topics
An intensive study of specific areas of foreign language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: This course may be repeated for credit with departmental permission.

FLAN 680 - Special Topics
An intensive study of specific areas of foreign language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: This course may be repeated for credit with departmental permission.

FLAN 681 - Special Topics
An intensive study of specific areas of foreign language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: This course may be repeated for credit with departmental permission.

FLAN 688 - Internship in Language and International Trade
Provides an opportunity for the graduate student to extend theoretical classroom learning through working experience in an appropriate setting. The World Languages Department, in cooperation with the College of Business, will arrange and supervise suitable assignments in firms conducting international business. A minimum of 10 hours per week in the field will be supplemented by regular meetings with the faculty supervisors. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

FLAN 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

FLAN 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

FLAN 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

FLAN 695 - Seminar in Bilingual-Bicultural Education
Each semester, different topics are selected for intensive study by advanced students. The course consists of a review and discussion of contemporary issues in bilingual-bicultural education, following which, students select areas for research. Emphasis in seminar meetings on exchange of ideas and information developed through the research. __Credit Hours: 3 hrs _Prerequisites: department permission _Notes: Taught in Spanish/English.

FLAN 697 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. __Credit Hours: 1 hr _Prerequisites: department permission

FLAN 698 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

FLAN 699 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

French

FRNH 443 - Advanced French Grammar and Composition
Extensive written practice for a variety of specific purposes integrating advanced grammatical structures. Frequent written assignments In French. __Credit Hours: 3 hrs _Prerequisites: FRNH343 _Notes: This is an undergraduate course available for graduate credit.

FRNH 444 - Advanced French Conversation
Development of advanced oral proficiency. Emphasizes pronunciation, acquisition of vocabulary and idioms for daily life, advanced sentence structures. Advanced presentation and practice of phonological principles. Includes a formal proficiency assessment In French. __Credit Hours: 3 hrs _Prerequisites: FRNH343 and FRNH344 or
FRNH 445 - French Phonetics
Study of the sound system of the French language including both theory and practice. Major focus on the International Phonetic Alphabet as it applies to French. Lecture and practical exercises in class. In French. ___Credit Hours: 3 hrs _Prerequisites: FRNH341, FRNH342 or department permission _Notes: This is an undergraduate course available for graduate credit.

FRNH 452 - Readings in French
Special projects in directed readings for majors and minors who have completed the available offerings in French or who, because of most unusual circumstances, are granted department approval to substitute one or both of these for the regular courses. ___Credit Hours: 2 hrs _Prerequisites: FRNH341, FRNH342 or department permission _Notes: This is an undergraduate course available for graduate credit.

FRNH 454 - Advanced French Phonetics
Study of the sound system of the French language including both theory and practice. Major focus on the International Phonetic Alphabet as it applies to French. Lecture and practical exercises in class. In French. ___Credit Hours: 3 hrs

FRNH 446 - Business French I
Study of principles and practices of business communication in France with emphasis on business correspondence and translation. Introduction to the French economy including business law, industry, business and services. In French. ___Credit Hours: 3 hrs _Prerequisites: FRNH361 or department permission _Notes: This is an undergraduate course available for graduate credit.

FRNH 447 - Business French II
Further study of business practices, business law and the French economy. Emphasis on business correspondence and translation and on French ties with the European economic community, the U.S., the East, developing countries and Francophone countries. Prepares student for language proficiency examinations (CCIP diplomas). In French. ___Credit Hours: 3 hrs _Prerequisites: FRNH446 or department permission _Notes: This is an undergraduate course available for graduate credit.

FRNH 450 - French Civilization in Film
The purpose of this course is to study a number of French films and distinguish between fiction and reality as portrayed in the film. Students will research the era and compare the events shown in the film with the societal or historical facts found in their research. ___Credit Hours: 3 hrs _Prerequisites: FRNH443 or FRNH444

FRNH 455 - Readings in French
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: This course may be repeated for credit with departmental permission.

FRNH 459 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: This course may be repeated for credit with departmental permission.

FRNH 460 - Intensive French Abroad
An intensive summer course offered in a French-speaking environment. Instruction emphasizes improvement of listening comprehension and speaking skill. Various levels of instruction suited to student needs. ___Credit Hours: 6 hrs _Repeatable: May be repeated for credit.

FRNH 545 - Advanced French Phonetics
Study of the sound system of the French language including both theory and practice.Major focus on the International Phonetic Alphabet as it applies to French. Lecture and practical exercises in class. In French. ___Credit Hours: 3 hrs

FRNH 550 - French Civilization in Film
The purpose of this course is to study a number of French films and distinguish between fiction and reality as portrayed in the film. Students will research the era and compare the events shown in the film with the societal or historical facts found in their research. ___Credit Hours: 3 hrs _Prerequisites: FRNH443 or FRNH444

FRNH 559 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: This course may be repeated for credit with departmental permission.

FRNH 560 - Intensive French Abroad
An intensive summer course offered in a French-speaking environment. Instruction emphasizes improvement of listening comprehension and speaking skill. Various levels of instruction suited to student needs. ___Credit Hours: 6 hrs _Repeatable: May be repeated for credit.

FRNH 591 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: This course may be repeated for credit with departmental permission.

FRNH 610 - Intensive French Abroad
An intensive summer course offered in a French-speaking environment. Instruction emphasizes improvement of listening comprehension and speaking skill. Various levels of instruction suited to student needs. ___Credit Hours: 6 hrs _Repeatable: May be repeated for credit.
FRNH 616 - French (Four Skills) for Non-majors
Introduction to and practice in four skills (listening, speaking, reading, writing) of French. __Credit Hours: 3 hrs

FRNH 620 - French Grammar and Syntax
An advanced course in grammar and syntax. Intended to give a solid basis for oral and written expression, and for teaching of French. __Credit Hours: 3 hrs

FRNH 621 - Advanced Conversation in French
A continuation of advanced conversation with emphasis on attaining fluency at all levels pertinent to professional and cultural needs. Discussions and oral reports on periodical literature. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

FRNH 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

FRNH 646 - French Economy and Business Practices I
Advanced course in business communications, translation techniques and French business practices. Study of French economy, energy, industry, commerce, agriculture and services; demographic and political trends. In French. __Credit Hours: 3 hrs _Prerequisites: FRNH620 and FRNH621, or department permission

FRNH 647 - French Economy and Business Practices II
Continuation of FRNH646. Study of French economy as it relates to the European Union, the United States, the East, the developing countries and the francophone countries. Upon completion of this course, students are eligible to take language proficiency examinations, leading to the CCIP diplomas. In French. __Credit Hours: 3 hrs _Prerequisites: FRNH646 or department permission

FRNH 679 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Repeatable: May be repeated for credit with permission.

FRNH 680 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit with permission.

FRNH 681 - Special Topics
An intensive study of a specific area of French language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit with permission.

FRNH 692 - Research Paper
An intensive research into a specific area of French language or literature to be determined by the instructor’s field of specialization and student interest. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit with permission.

FRNH 697 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

FRNH 698 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

FRNH 699 - Independent Study
Intensive study of a problem under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

GEOG 332 - Urban Geography
A study of geographic principles related to distribution, function, structure and regional setting of urban centers. __Credit Hours: 3 hrs _Prerequisites: GEOG110 __

GHPR 401 - Planning/ Preservation Graphics
A lecture-laboratory course in graphics techniques of mapmaking, topographic analysis, communication of data and presentation. Media explored will include pen and ink, colored pencil and markers, and digital photography. __Credit Hours: 3 hrs _Prerequisites: GPLN215 _Cross-listed: This course is cross-listed with GPLN401

GHPR 475 - Architectural Nomenclature
The language and terms of architecture are the focus of this course. The history and development of architectural terminology from the Old World to America will be covered in the first half and the application of same to follow. __Credit Hours: 2 hrs
GHPR 530 - Introduction to Historic Preservation
Survey of the growth of historic preservation in the United States. Identification of preservation techniques, and federal, state and private preservation agencies and legislation; value and objectives of preservation. __Credit Hours: 3 hrs

GHPR 531 - Preservation and Planning Law
This course is designed to introduce students to the legal and historical foundations of planning, zoning and preservation, and the laws that govern current planning and preservation practices. Utilizing lectures, discussions, and readings, this class will help prepare students for professional careers in planning, historic preservation, and cultural resource management. __Credit Hours: 3 hrs

GHPR 532 - Introduction to Curatorship
The evolutionary role of the history museum curator in the 21st century will be covered, including fundamental duties, responsibilities, ethics and legal obligations in terms of collections development and stewardship. The role of the curator in the interpretation and exhibition of the collections artifacts will also be explored. __Credit Hours: 3 hrs

GHPR 533 - Introduction to Historic Administration
A general introduction to the field of historical administration is presented with an emphasis on the establishment and workings of historical museums. Attention is paid to the ongoing functional needs of historical agencies, namely roles of key personnel, public relations and collection management. __Credit Hours: 2 hrs

GHPR 534 - Community Interpretation and Appropriate Tourism
Traces the origin and development of the community interpretation process and outlines its emerging role in the creation of appropriate tourism programs. The empowerment of local hosts to interpret their area’s heritage, visitor behavior, operational issues and the range of potential heritage interpretation experiences will be discussed. __Credit Hours: 2 hrs

GHPR 535 - Heritage Interpretation Planning
Extensive practice in the systematic planning of heritage interpretation programs, including analysis of heritage resources; target guest groups; intended programs, goals and objectives; themes and subthemes; desired emotional/sensory experiences; factual concepts; chosen delivery methods; and evaluation scheme. __Credit Hours: 3 hrs

GHPR 537 - Interpretive Programming for Organizations
A survey of the existent interpretive programming of selected corporations, institutions and agencies. Practice in the development and proposal of comprehensive interpretive programs for organizations. __Credit Hours: 3 hrs _Prerequisites: GHPR534

GHPR 538 - Historic Preservation and Tourism
An exploration of the correlation between historic preservation and the heritage interpretation that will investigate the cultural landscape and built environment as integral elements of heritage tourism. __Credit Hours: 2 hrs _Prerequisites: GHPR530 or GEOG557

GHPR 539 - American Decorative Arts
The most popular forms of American furniture used in the Colonies/USA from c. 1600 to the present will be covered. Emphasis will be on styles, room use, technological changes, and cultural and social patterns as they affected design, style and manufacture of American furniture. __Credit Hours: 3 hrs

GHPR 546 - International Preservation: Historic Applications
Preservation’s history is covered from its earliest international beginnings in the 16th century to the present. Preservation’s past is examined as to how it shapes the future. Attention is given to how historic preservation has evolved in different countries and the present applications in each. __Credit Hours: 2 hrs

GHPR 547 - Problems in Architectural Interpretation
The course deals with problems in dating historic structures. Analysis is based on style, construction methods and detailing. Students learn through slide lectures, field trips and term projects how to evaluate buildings for architectural significance. __Credit Hours: 2 hrs _Prerequisites: ART429 or equivalent

GHPR 551 - Principles of Building Technology
This course covers the basic principles and terminology of American construction from the 17th through the 20th century. Focus will be given to how ideas, inventions, and specific technologies changed known construction methods. __Credit Hours: 2 hrs

GHPR 552 - Materials Conservation I
An introduction to the materials used in conservation/restoration projects, in both architecture and museums, presented through lectures and hands-on field experiments. Attention will be given to the history and preservation techniques of each material; and the composition, properties and uses of each material will be addressed through lectures and readings. __Credit Hours: 2 hrs

GHPR 557 - Community Development and Downtown Revitalization
Explores current approaches to community development in the context of downtown commercial revitalization. Particular emphasis is given to the use of historic preservation planning as a strategy for downtown revitalization. Components of a downtown preservation plan to be reviewed include history, urban design, architecture, economics, implementation and preservation law, and public policy. __Credit Hours: 3 hrs _Prerequisites: GHPR530 or GEOG553
GHPR 558 - Adaptive Use of Historic Structures
A critical exploration of the issues raised by adaptively used older and historic structures/places through an assessment and discussion of real-life examples via current readings and site visitations. __Credit Hours: 2 hrs __Prerequisites: GHPR530 or GHPR557/GEOG557

GHPR 559 - Urban Planning/Preservation Studio
An interdisciplinary planning and preservation studio in which student teams analyze a revitalization need in a local community, collect data, develop a proposal and make a presentation at a public meeting. __Credit Hours: 3 hrs __Prerequisites: Coreq: GEOG553 or GHPR530

GHPR 572 - Funding Preservation Projects
Student is exposed to planning, implementation and follow-up documentation of various types of historic preservation grants. Course also includes discussions on endowments, wills, bequests and financial planning, and development for historical agencies. __Credit Hours: 2 hrs __Prerequisites: GHPR530 or GHPR533

GHPR 587 - Cooperative Education in Cultural Resource Management
A semester equivalent of full-time employment at a private firm, public agency or nonprofit institution selected to provide the student with a paid work experience in historic preservation. Participating students must be recommended to the Cooperative Education Office by a departmental faculty member. A written report is required at the end of the employment period. Credit on the historic preservation program is subject to departmental approval. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

GHPR 590 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 1 hrs __Prerequisites: department permission

GHPR 591 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

GHPR 592 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GHPR 597 - Independent Study
An intensive study of a problem or specifically focused subject matter pertaining to the field of cultural resource management, under the direction of a faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

GHPR 598 - Independent Study
An intensive study of a problem or specifically focused subject matter pertaining to the field of cultural resource management, under the direction of a faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

GHPR 599 - Independent Study
An intensive study of a problem or

GHPR 620 - Preservation Research Techniques
A research-intensive course designed to address preservation-oriented research problems, involving built environment and/or cultural landscape analyses as sources of applied research skills. __Credit Hours: 2 hrs __Prerequisites: GHPR530 and ART429 or equivalent

GHPR 630 - Documenting Historical Places
Lecture and practical experience in documenting the built environment. Techniques of architectural survey, researching the history and former occupants of a building, and preparation of a National Register nomination. Student projects and possible field trips. __Credit Hours: 2 hrs __Prerequisites: GHPR530 or ART429; and GHPR620

GHPR 631 - Preservation Administration and Planning
Study of cultural resource management objectives, strategies and techniques, including specific practice in the preparation of various types of National Register nominations, Department of the Interior tax certifications and a local historic district ordinance. __Credit Hours: 2 hrs __Prerequisites: GHPR530 or GHPR557/GEOG557 or GEOG553

GHPR 632 - Interpreting the Historic House
Issues in the interpretation of historic house museums will be key. Strategies for interpretation, including its story, mission, connection with the community, accessibility and special events, will be the focus. __Credit Hours: 3 hrs

GHPR 636 - Historic Preservation Field
Project
Specifically arranged supervised field experiences and application of theoretical viewpoints to field problems in historic preservation. __Credit Hours: 3 hrs _Prerequisites: department permission

GHPR 637 - Historic Preservation Field Project
Specifically arranged supervised field experiences and application of theoretical viewpoints to field problems in historic preservation. __Credit Hours: 6 hrs _Prerequisites: department permission

GHPR 638 - Preserving Community Character
An exploration of the interrelated roles of historic preservation, environmental conservation, growth management and tourism as they relate to preserving the unique "community character" of places. __Credit Hours: 2 hrs

GHPR 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

GHPR 651 - Principles of Preservation Technology
The course will focus on the specific principles related to the physical intervention and preservation of historic and older structures, utilizing actual case studies to illustrate these principles. __Credit Hours: 2 hrs

GHPR 652 - Materials Conservation II
This course provides students with a thorough grounding in a number of sophisticated methods of material analyses, including computer-assisted optical stereology, particle induced x-ray emission and x-ray florescence. They have an opportunity to execute material analyses using these and other methods. The course format combines lecturers and fieldtrips for "hands-on" application. __Credit Hours: 2 hrs _Prerequisites: GHPR552

GHPR 679 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

GHPR 680 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

GHPR 681 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

GHPR 687 - Internship
Supervised internship in some aspect of historic preservation which is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. A maximum of two internships is allowed totaling no more than eight semester hours. __Credit Hours: 4 hrs _Prerequisites: department permission

GHPR 688 - Internship
Supervised internship in some aspect of historic preservation which is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. A maximum of two internships is allowed totaling no more than eight semester hours. __Credit Hours: 5 hrs _Prerequisites: department permission

GHPR 689 - Internship
Supervised internship in some aspect of historic preservation which is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. A maximum of two internships is allowed totaling no more than eight semester hours. __Credit Hours: 6 hrs _Prerequisites: department permission

GHPR 690 - Historic Preservation Project
The student conceives his or her own idea for a preservation-related individual project. The student is responsible for the design or planning of the project and carrying it to completion. Required of all historic preservation majors; represents the student’s culminating experience prior to graduation. __Credit Hours: 1 hr _Prerequisites: department permission

GHPR 691 - Historic Preservation Project
The student conceives his or her own idea for a preservation-related individual project. The student is responsible for the design or planning of the project and carrying it to completion. Required of all historic preservation majors; represents the student’s culminating experience prior to graduation. __Credit Hours: 2 hrs _Prerequisites: department permission

GHPR 692 - Historic Preservation Project
The student conceives his or her own idea for a preservation-related individual project. The student is responsible for the design or planning of the project and carrying it to completion. Required of all historic preservation majors; represents the student’s culminating experience prior to graduation. __Credit Hours: 2 hrs _Prerequisites: department permission

GHP 694 - Seminar in Neighborhood Preservation

The viability and desirability of neighborhood preservation is discussed and observed from the perspective of affected inhabitants and from the broader urban to national contexts. __Credit Hours: 2 hrs _Prerequisites: GHP 530 or GHP 559/GEOG 559 or GEOG 553

GHP 695 - Seminar in Preservation Issues

This seminar will focus on research, group discussion, and site investigations that illustrate the distinct issues facing historic preservation. Both methodology and practical applications of specific approaches, which will vary with each offering, will be addressed. This seminar may be taken more than once, provided the topics are different; no more than six hours of seminar credit may be applied to the degree program. __Credit Hours: 2 hrs

GHP 696 - Seminar in Preservation Issues

This seminar will focus on research, group discussion, and site investigations that illustrate the distinct issues facing historic preservation. Both methodology and practical applications of specific approaches, which will vary with each offering, will be addressed. This seminar may be taken more than once, provided the topics are different; no more than six hours of seminar credit may be applied to the degree program. __Credit Hours: 3 hrs

GHP 697 - Independent Study

An intensive study of a problem or specifically focused subject matter pertaining to the field of cultural resource management, under the direction of a faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

GHP 698 - Independent Study

An intensive study of a problem or specifically focused subject matter pertaining to the field of cultural resource management, under the direction of a faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

GHP 699 - Independent Study

An intensive study of a problem or specifically focused subject matter pertaining to the field of cultural resource management, under the direction of a faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Geography and Geology

GEOG 333 - Settlement Geography

Cultural, functional and ecological factors underlying human settlement patterns. __Credit Hours: 3 hrs _Prerequisites: GEOG 110 or GEOG 115

GEOG 348 - Teaching Social Studies in Elementary Schools

Survey of the social studies and evaluation of methods commonly used in the teaching of social studies in the elementary grades, with special emphasis on inquiry. Types of activities most effective in the presentation of materials and the use of visual aids are featured. A study of maps and globes, controversial issues, social values, environmental education, consumer education, global education and ethnic groups is included. __Credit Hours: 3 hrs _Prerequisites: one course in geography _Notes: Not open to students on academic probation

GEOG 444 - Heritage Interpretation and Tourism

Evolution of the private sector tour-guiding and the public sector heritage interpretive methods. Practice in the application of interpretive techniques to cultural and natural tourism resources. Strategies for the integrative use of interpretive methods, including tours, demonstrations, talks, person-to-person experiences, publications, exhibits, signage and audiovisuals. __Credit Hours: 3 hrs _Prerequisites: GEOG 445 _Notes: This is an undergraduate course available for graduate credit

GEOG 446 - Cultural Tourism Resources

Survey of the relationships between cultural heritage resources and tourism. The tourism potentials of cultural centers and museums, archeological sites, folk crafts and foodways, regional cultural mannerisms, ethnic landscapes, architecturally significant buildings, historic cities and towns, and other types of historic landscapes will be covered. __Credit Hours: 3 hrs _Prerequisites: GEOG212 or GEOG336 _Notes: This is an undergraduate course available for graduate credit

GEOG 447 - Special Topics

An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: This is an undergraduate course available for graduate credit

GEOG 448 - Special Topics

An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 2 hrs _Prerequisites: department permission
GEOG 479 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. _Credit Hours: 3 hrs _Prerequisites: department permission

GEOG 480 - Geographic Information Systems Projects
A study of different ways in which GIS is being used to resolve problems in the public and private sectors and in academia. Emphasis is on how GIS technology is being used in areas such as facility management, natural resource management, urban planning, environmental modeling, historical preservation, geology, health planning, etc. By working on a number of small, but realistic, projects students learn how to conceptualize GIS solutions to problems and how to professionally implement GIS projects. _Credit Hours: 1-3 hrs _Prerequisites: GEOG376 _Notes: This is an undergraduate course available for graduate credit.

GEOG 505 - Seminar in Methods and Research
Basic research techniques applicable to Geography, Planning and Geographic Information Systems students. Course work includes location and identification of source materials, statement and analysis of problems, and preparation of results of research. _Credit Hours: 2 hrs

GEOG 513 - South American Lands
A regional study of the countries of South America; resources, people and national cultures are stressed. _Credit Hours: 2 hrs _Prerequisites: GEOG322 or equivalent

GEOG 518 - Problems of Sub-Saharan Africa
Individual research in selected problems in the geography of Sub-Saharan Africa. _Credit Hours: 2 hrs _Prerequisites: GEOG322 or equivalent

GEOG 520 - GIS Introduction for Educators
This course is intended as an introductory Geographic Information Systems course for educators with some computer experience, but no previous GIS experience. The course is designed to open up the world of GIS to the professional educators. The course will include readings and online discussions followed by hands-on exercises. _Credit Hours: 3 hrs _Prerequisites: a teaching certificate in science, social science, business application, computer information technology or department approval _Cross-listed: This course is cross-listed with ESSC520

GEOG 522 - Internet GIS for Educators
This course explores the availability of internet-based GIS tools and data sources and their applicability to the development of K–16 curriculum materials. Participants will investigate a variety of online mapping tools, as well as sources of spatial data that can be integrated into a GIS. Learners will develop an understanding of the purpose and need for accurate metadata when using Internet based data sources. _Credit Hours: 3 hrs _Prerequisites: a teaching certificate in science, or social science, or business application, or computer information technology or department approval _Cross-listed: This course is cross-listed with ESSC522

GEOG 524 - GIS As an Instructional Tool in Classrooms
This course surveys current instructional applications of geographic information systems. Participants will explore strategies for integrating GIS within a variety of K–16 instructional environments. In addition, learners will develop simple, introductory instructional materials intended to introduce students to GIS as a tool for data display, symbolization and analysis. _Credit Hours: 3 hrs _Prerequisites: GEOG/ESSC520 and GEOG/ESSC522 _Cross-listed: This course is cross-listed with ESSC524

GEOG 531 - American Cultural Landscapes
The diversity of the human geography of the United States will be explored in terms of representative cultural landscapes of selected regions. Historic characteristics of urban and rural landscapes in America will be analyzed by means of readings, audio-visual presentations and discussions. _Credit Hours: 2 hrs

GEOG 541 - Material Cultures: A Disciplinary Overview
Introduces and examines material culture from the perspective of six or seven academic disciplines that make use of objects in their analysis of culture. Major emphasis is given to American material culture. _Credit Hours: 3 hrs

GEOG 546 - Problems in Population Geography
Readings, discussion and research of selected problems in population geography. _Credit Hours: 2 hrs _Prerequisites: GEOG361 or equivalent

GEOG 548 - American Vernacular Architecture
Vernacular structures are analyzed as aspects of material culture and cultural landscape contributing to regional personality within the United States. Attention is given to old world antecedents, colonial development and diffusion of regional forms from their colonial nodes. Focus will be on the materials and techniques used in construction. _Credit Hours: 2 hrs

GEOG 549 - Cultural Landscape Interpretation
Principles of cultural landscape interpretation as well as the development of local interpretation keys are investigated. Analysis of cultural landscapes is carried out in lectures, field practice, discussion sessions and student reports. _Credit Hours: 2 hrs _Prerequisites: GEOG360 or equivalent

GEOG 553 - Urban and Regional Planning

GEOG 555 - Urban and Regional Planning

GEOG 679 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. _Credit Hours: 3 hrs _Prerequisites: department permission

GEOG 705 - Seminar in Methods and Research
Basic research techniques applicable to Geography, Planning and Geographic Information Systems students. Course work includes location and identification of source materials, statement and analysis of problems, and preparation of results of research. _Credit Hours: 2 hrs

GEOG 713 - South American Lands
A regional study of the countries of South America; resources, people and national cultures are stressed. _Credit Hours: 2 hrs _Prerequisites: GEOG322 or equivalent

GEOG 718 - Problems of Sub-Saharan Africa
Individual research in selected problems in the geography of Sub-Saharan Africa. _Credit Hours: 2 hrs _Prerequisites: GEOG322 or equivalent

GEOG 720 - GIS Introduction for Educators
This course is intended as an introductory Geographic Information Systems course for educators with some computer experience, but no previous GIS experience. The course is designed to open up the world of GIS to the professional educators. The course will include readings and online discussions followed by hands-on exercises. _Credit Hours: 3 hrs _Prerequisites: a teaching certificate in science, social science, business application, computer information technology or department approval _Cross-listed: This course is cross-listed with ESSC520

GEOG 722 - Internet GIS for Educators
This course explores the availability of internet-based GIS tools and data sources and their applicability to the development of K–16 curriculum materials. Participants will investigate a variety of online mapping tools, as well as sources of spatial data that can be integrated into a GIS. Learners will develop an understanding of the purpose and need for accurate metadata when using Internet based data sources. _Credit Hours: 3 hrs _Prerequisites: a teaching certificate in science, or social science, or business application, or computer information technology or department approval _Cross-listed: This course is cross-listed with ESSC522

GEOG 724 - GIS As an Instructional Tool in Classrooms
This course surveys current instructional applications of geographic information systems. Participants will explore strategies for integrating GIS within a variety of K–16 instructional environments. In addition, learners will develop simple, introductory instructional materials intended to introduce students to GIS as a tool for data display, symbolization and analysis. _Credit Hours: 3 hrs _Prerequisites: GEOG/ESSC520 and GEOG/ESSC522 _Cross-listed: This course is cross-listed with ESSC524

GEOG 731 - American Cultural Landscapes
The diversity of the human geography of the United States will be explored in terms of representative cultural landscapes of selected regions. Historic characteristics of urban and rural landscapes in America will be analyzed by means of readings, audio-visual presentations and discussions. _Credit Hours: 2 hrs

GEOG 741 - Material Cultures: A Disciplinary Overview
Introduces and examines material culture from the perspective of six or seven academic disciplines that make use of objects in their analysis of culture. Major emphasis is given to American material culture. _Credit Hours: 3 hrs

GEOG 746 - Problems in Population Geography
Readings, discussion and research of selected problems in population geography. _Credit Hours: 2 hrs _Prerequisites: GEOG361 or equivalent

GEOG 748 - American Vernacular Architecture
Vernacular structures are analyzed as aspects of material culture and cultural landscape contributing to regional personality within the United States. Attention is given to old world antecedents, colonial development and diffusion of regional forms from their colonial nodes. Focus will be on the materials and techniques used in construction. _Credit Hours: 2 hrs

GEOG 749 - Cultural Landscape Interpretation
Principles of cultural landscape interpretation as well as the development of local interpretation keys are investigated. Analysis of cultural landscapes is carried out in lectures, field practice, discussion sessions and student reports. _Credit Hours: 2 hrs _Prerequisites: GEOG360 or equivalent

GEOG 753 - Urban and Regional Planning

GEOG 755 - Urban and Regional Planning

GEOG 879 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. _Credit Hours: 3 hrs _Prerequisites: department permission
GEOG 555 - Comprehensive Planning
An integration of planning tools, data sources, forecasting and standards to produce a comprehensive plan that contains components on land use, transportation and capital improvements. __Credit Hours: 2 hrs

GEOG 556 - Zoning
This course will prepare students to understand, interpret and critique a zoning ordinance, and to become familiar with planned unit development and site plan review. __Credit Hours: 2 hrs

GEOG 557 - Community Development and Downtown Revitalization
Explores current approaches to community development in the context of downtown commercial revitalization. Particular emphasis is given to the use of historic preservation planning as a strategy for downtown revitalization. Components of a downtown preservation plan to be reviewed include history, urban design, architecture, economics, implementation and preservation law, and public policy. __Credit Hours: 3 hrs __Prerequisites: GEOG553 or GHPR530.

GEOG 559 - Urban Planning/ Preservation Studio
An interdisciplinary planning and preservation studio in which student teams analyze a revitalization need in a local community, collect data, develop a proposal and make a presentation at a public meeting. __Credit Hours: 3 hrs __Prerequisites: Coreq: GEOG553 or GHPR530

GEOG 563 - Climate
Regional climates are assessed in terms of characteristic types and frequencies of weather, with emphasis on geographic and atmospheric causes of differences and variations. Data in a number of statistical and graphical forms are interpreted in evaluating and classifying climates. One hour lecture and two hours' laboratory per week. __Credit Hours: 2 hrs _Prerequisites: ESSC324 or GEOG562

GEOG 567 - Introduction to Coastal Environments
Description and analysis of the physical and biogeographical processes of the coastal ocean, Great Lakes and inland lakes. Distribution and origin of the coastal environments: natural and human modification of beach, river valley, estuary, marsh, delta and coral reef environments. Classroom demonstrations and field trips. __Credit Hours: 2 hrs _Prerequisites: department permission

GEOG 570 - Rural Planning and Preservation
This course informs students how to develop a rural plan and evaluate implementation alternatives. __Credit Hours: 2 hrs _Prerequisites: GEOG553 or GEOG579

GEOG 571 - Teaching of Social Studies
Subjects included: selecting, securing, organizing, presenting and evaluating materials. Not open to students who hold credit in GEOG348. __Credit Hours: 2 hrs

GEOG 575 - Interpretation of Aerial Photography
Interpretation of black and white, color and color infrared photographs. Emphasis on photo interpretation, measurements and mapping. Class project and optional field trip. Not open to students with credit in ESSC405. __Credit Hours: 3 hrs __Prerequisites: GEOG579 or equivalent

GEOG 577 - Geographical Literature
An evaluation of journals, abstracts and government publications. Visits to local specialized resource centers to investigate maps and documents. Preparation of bibliographies and assessment of literature on selected topics in geography. __Credit Hours: 2 hrs

GEOG 579 - Geographic Information Systems
Use of computers for storing, displaying and manipulating spatial information. Principles of geocoding, data capture and data analysis. Applications include land capability, facilities management and locational analysis for land planning, environmental assessment and historic preservation. __Credit Hours: 3 hrs

GEOG 580 - Urban Environmental Management
Survey and evaluation of geologic, topographic, geomorphologic, hydrologic and atmospheric factors that potentially and actually have impact on urban development and environmental management. __Credit Hours: 2 hrs _Prerequisites: GEOG553

GEOG 581 - Advanced Environmental Assessment
Preparation and critique of environmental assessments and site plans. Emphasis on current environmental problems, regulations, data interpretation and impact mitigation. Optional field trips. __Credit Hours: 3 hrs _Prerequisites: GEOG553 and GEOG579

GEOG 582 - Remote Sensing of Earth Resources
Manual interpretation and microcomputer processing of various types of remote-sensing imagery. Application of this technology to land-use planning, environmental assessment, information systems and Third World development. __Credit Hours: 3 hrs _Prerequisites: GEOG575

GEOG 583 - Cartographic Design
Emphasis is on developing map-making skills, using a variety of instruments and techniques. Quality work is stressed to prepare for professional employment. Not open to students with credit in ESSC401 or ESSC402 or equivalent. __Credit Hours: 3 hrs
GEOG 584 - Visual Programming for GIS Customization
The course is designed to teach programming and problem-solving practices which are applicable to window programming environments, but with specific emphasis on a Visual® programming language and its relevance to GIS software customization. The course will include lectures and discussions followed by hands-on exercises. __Credit Hours: 3 hrs __Prerequisites: GEOG579

GEOG 585 - Geographic Information Systems Applications
A lecture and computer-based applied course using geographic information systems to understand common geographic and geologic problems in local government and private industry. A significant part of the course consists of analyzing existing real-world applications that develop intermediate and advanced GIS skills in data collection, manipulation, analysis and presentation. __Credit Hours: 3 hrs __Prerequisites: GEOG579

GEOG 587 - Cooperative Education in Geography/Geology
A semester equivalent of full-time employment at a private firm, public agency or nonprofit institution that provides an applied experience for the graduate student. Participating students must be recommended to the Cooperative Education Office by a departmental faculty member. A written report is required at the end of the employment period. Credit on the geography and geology programs is subject to departmental approval. __Credit Hours: 3 hrs __Prerequisites: graduate student status and enrollment in one of the department’s graduate programs; admittance by application only. When Offered: Offered on a credit/no-credit basis.

GEOG 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

GEOG 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

GEOG 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 593 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 594 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 595 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 596 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

GEOG 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

GEOG 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

GEOG 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

GEOG 667 - School GIS Project
School GIS projects emphasizing comprehensive mastery of GIS concepts and techniques in schools applications. Particular topics are chosen on requests in school administration, student services, student field research and student career development. These projects are selected and designed to enable participants to engage in using GIS for problem solving in our schools. __Credit Hours: 3 hrs __Prerequisites: GEOG/ESSC520 and GEOG/ESSC522 __Cross-listed: This course is cross-listed with ESSC667

GEOG 668 - GIS Project
Study projects emphasizing the development and management techniques of comprehensive GIS programs in real-world applications. Projects chosen based on federal, state and local governments, especially in southeast Michigan and in private industry. Theses projects are designed to enable students to engage applied research, problem-solving application, or both. __Credit Hours: 3 hrs __Prerequisites: GEOG579 and GEOG585

GEOG 669 - GIS Lesson Plan Development
The course is focused on using state and national benchmarks to plan, research and develop GIS lessons in a K–16 setting. In this course you will accomplish this by readings, lesson critiques and lesson development using Michigan Climb® benchmarks. __Credit Hours: 3 hrs __Prerequisites: GEOG/ESSC524 and GEOG/ESSC667 __Cross-listed: This course is cross-listed with ESSC669

GEOG 674 - Professional Publication/Report
Successful completion of this course will necessitate that the student write a research
paper of publishable quality as determined by the faculty and identify a professional journal appropriate for the paper. A major professional report prepared for a public agency or private consulting firm is an acceptable alternative. __Credit Hours: 2 hrs  _Prerequisites: GEOG687 and department permission

GEOG 678 - Advanced Applications of GIS
Study and practice GIS development and customization techniques so that the students can create easy-to-use graphical user interface for nontech people to use, streamline GIS functions for complex GIS applications, couple geo-computational or domain-specific models within GIS systems and develop new GIS solutions and functions. __Credit Hours: 3 hrs  _Prerequisites: GEOG579 and GEOG584

GEOG 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Information on content can be obtained at department office. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr  _Prerequisites: department permission

GEOG 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Information on content can be obtained at department office. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs  _Prerequisites: department permission

GEOG 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Information on content can be obtained at department office. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs  _Prerequisites: department permission

GEOG 683 - Field Studies in Michigan
The geographic and geologic environment: on-campus sessions and field trips include both subject matter and methodological concerns. Write department for information on content. Offered as a two-week workshop in the summer session. __Credit Hours: 2 hrs

GEOG 687 - Internship in Geography/Geology
Supervised internship in some aspect of geography or geology that is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. __Credit Hours: 4 hrs  _Prerequisites: department permission  _Notes: This course may be taken only once.

GEOG 688 - Internship in Geography/Geology
Supervised internship in some aspect of geography or geology that is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. __Credit Hours: 5 hrs  _Prerequisites: department permission  _Notes: This course may be taken only once.

GEOG 689 - Internship in Geography/Geology
Supervised internship in some aspect of geography or geology that is of mutual interest to the student and the public or private agency that would "employ" the student. This experience is designed to integrate academic training with practical application. __Credit Hours: 6 hrs  _Prerequisites: department permission  _Notes: This course may be taken only once.

GEOG 690 - Thesis
An intensive study of a problem or problems, under the direction of a faculty member. __Credit Hours: 3 hrs  _Prerequisites: department permission

GEOG 691 - Thesis
An intensive study of a problem or problems, under the direction of a faculty member. __Credit Hours: 2 hrs  _Prerequisites: department permission

GEOG 692 - Thesis
An intensive study of a problem or problems, under the direction of a faculty member. __Credit Hours: 3 hrs  _Prerequisites: department permission

GEOG 694 - Seminar
Research, reports and group discussions, emphasizing the distinctive concerns and methodology of geography. The particular topic that is examined will vary from semester to semester. Information regarding the content of a particular seminar may be obtained at the department office. Students may elect this seminar several times, provided the topic studies are different. Not more than six hours of seminar courses may be used on a degree program. __Credit Hours: 2 hrs  _Prerequisites: GEOG553 or GHPR530

GEOG 695 - Seminar
Research, reports and group discussions, emphasizing the distinctive concerns and methodology of geography. The particular topic that is examined will vary from semester to semester. Information regarding the content of a particular seminar may be obtained at the department office. Students may elect this seminar several times, provided the topic studies are different. Not more than six hours of seminar courses may be used on a degree program. __Credit Hours: 3 hrs  _Prerequisites: GEOG553 or GHPR530

GEOG 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hrs __Prerequisites: department permission

GEORG 698 - Independent Study

An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

GEORG 699 - Independent Study

An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

German

GERN 425 - German Literature from the Middle Ages to the Baroque

Readings from the period are discussed in class meetings and taken as topics for student essays and reports. The literature is considered in the broad context of culture. In German. __Credit Hours: 3 hrs __Prerequisites: GERN342 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 426 - German Literature from 1750-1850

The literature of Germany from the preclassical period through Romanticism is discussed in class meetings and treated in student essays and reports. Perspectives of the other arts and of political and social developments enable the student to appreciate the literature in the context of European civilization. In German. __Credit Hours: 3 hrs __Prerequisites: GERN342 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 427 - German Literature from 1850-1945

Selections from the literature of Poetic Realism, Biedermeier, Naturalism, Neo-Romanticism and Expressionism viewed against the background of political and cultural history. Classroom discussion and student reports. In German. __Credit Hours: 3 hrs __Prerequisites: GERN342 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 428 - German Literature and Film from 1945 to the Present

This course explores how literary works and films have shaped the cultural life in post-war German-speaking countries of Europe. Classroom discussions, papers and reports. In German. __Credit Hours: 3 hrs __Prerequisites: GERN342 __Notes: This is an undergraduate course available for graduate credit.

GERN 443 - German Syntax and Advanced Composition

Builds on the foundation in written expression acquired in GERN343. Intensive vocabulary and idiomatic writing; treatment of the more complex structural features of German and stylistics. Frequent assignments increase the student’s ability to write for a variety of purposes. __Credit Hours: 3 hrs __Prerequisites: GERN343/344 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 444 - Advanced German Conversation

Development of advanced conversational fluency. A variety of media are employed to increase the student’s facility in oral comprehension, and to stimulate conversational exchange among the class members. __Credit Hours: 3 hrs __Prerequisites: GERN343 and GERN344 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 451 - Readings in German

Special projects in directed reading for majors and minors who have completed the available offerings in German or who, because of most unusual circumstances, are granted department approval to substitute this for the regular courses. __Credit Hours: 1 hr __Prerequisites: department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 452 - Readings in German

Special projects in directed reading for majors and minors who have completed the available offerings in German or who, because of most unusual circumstances, are granted department approval to substitute this for the regular courses. __Credit Hours: 2 hrs __Prerequisites: department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 456 - Technical German I

Specialized vocabulary and jargon used in selected fields of technology. Basic technical concepts and terminology that students may encounter in German industry. Development of oral and reading facility as well as accurate translation of technical documents. Selected aspects of electronics, wood and metalworking, metallurgy, brake systems, computers, robotics, and auto production. Content areas will occasionally be changed and updated in order to keep pace with changed student needs and changes in technology. __Credit Hours: 3 hrs __Prerequisites: GERN343 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 457 - Technical German II

Specialized vocabulary and jargon used in selected fields of technology. Basic technical concepts and terminology that students may encounter in German industry. Development of oral and reading facility as well as accurate translation of technical documents. Selected aspects of internal combustion engines, fuel systems, and the petroleum industry. Content areas will occasionally be changed and updated in order to keep pace with changed student needs and changes in technology. __Credit Hours: 3 hrs __Prerequisites: GERN456 or department permission __Notes: This is an undergraduate course available for graduate credit.

GERN 490 - Special Topics

An intensive study of a specific area of
German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: This course may be repeated for credit with permission.

GERN 591 - Special Topics
An intensive study of a specific area of German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: This course may be repeated for credit with permission.

GERN 592 - Special Topics
An intensive study of a specific area of German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: This course may be repeated for credit with permission.

GERN 593 - Reading Knowledge of German
This course (taught in English) teaches students how to read, understand and translate a variety of authentic German texts, including scientific writings based on the majors of the participants. Students will learn basic German grammar and the most important principles of translation as well as how to use dictionaries. __Credit Hours: 3 hrs

GERN 597 - Independent Study
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

GERN 599 - Independent Study
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

GERN 610 - Intensive German in Europe
An intensive summer course offered in Austria or Germany. Instruction emphasizes improvement of listening comprehension and speaking skill. Various levels of instruction suited to student needs. __Credit Hours: 6 hrs _Repeatable: May be repeated for credit.

GERN 620 - Advanced German Syntax and Composition
An advanced course in grammar, syntax and composition. Intended to give a solid basis for oral and written expression. __Credit Hours: 3 hrs

GERN 621 - Advanced Conversation in German
A continuation of advanced conversation with emphasis on attaining fluency at all levels pertinent to professional needs. __Credit Hours: 3 hrs

GERN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

GERN 646 - German Business Practices
The course teaches the correct usage of German economic and financial vocabulary, and trains the students in the reading, writing and translating of German business communications. German language periodicals and journals are used. __Credit Hours: 3 hrs

GERN 647 - German Business Practices
The course teaches the correct usage of German economic and financial vocabulary, and trains the students in the reading, writing and translating of German business communications. German language periodicals and journals are used. __Credit Hours: 3 hrs

GERN 679 - Special Topics
An intensive study of a specific area of German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Repeatable: This course may be repeated for credit with permission.

GERN 680 - Special Topics
An intensive study of a specific area of German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: This course may be repeated for credit with permission.

GERN 681 - Special Topics
An intensive study of a specific area of German language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: This course may be repeated for credit with permission.

GERN 697 - Independent Study
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr  _Prerequisites: department permission

**GERN 698 - Independent Study**

Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs  _Prerequisites: department permission

**SPNH 448 - Modern Drama**

The development of modern Spanish drama and its various types. Works of the principal dramatists of the 19th and 20th centuries. In Spanish. __Credit Hours: 3 hrs  _Prerequisites: SPNH342 or department permission  _Notes: This is an undergraduate course available for graduate credit.

**Gerontology**

**GERT 417 - Work and Retirement**

Issues on the historical aspect of retirement, the realities of retirement, the necessity of preparing individuals for this significant part of their life-span, and work past the age of 65. __Credit Hours: 2 hrs  _Prerequisites: junior/senior or graduate student  _Notes: This is an undergraduate course available for graduate credit.

**GERT 488 - Gerontology Practicum/Seminar**

Integration of knowledge and skills gained from other gerontology courses and life experiences. Insights on aging available from the humanities disciplines. __Credit Hours: 2 hrs  _Prerequisites: senior standing, completion of two courses in the gerontology minor or advising coordinator’s permission  _Notes: This is an undergraduate course available for graduate credit.

**GERT 509 - Older Adults and Chemical Dependency**

This course is a survey of the epidemiology, clinical presentation, public policy issues and current treatment models for geriatric chemical dependency. Emphasis will be placed on both clinical and policy issues related to access to treatment and the types of treatment available. __Credit Hours: 1 hour

**GERT 511 - Elders and Their Families**

Examines the nature and significance of family and family-like relationships in later life, including long-term marriage, widowhood, divorce, remarriage, adult-to-adult/parent-child relationships, grandparenthood, siblingship and friendship. __Credit Hours: 2 hrs

**GERT 512 - Applied Psychosocial Aspects of Aging**

An interdisciplinary overview of the gerontological aspects including psychological, social/psychological, sociological and political and economic issues. Application will be made in such areas as leisure, education, housing and intergenerational issues. __Credit Hours: 3 hrs  _Prerequisites: senior undergraduates or graduate standing  _Cross-listed: This course is cross-listed with SWRK512.

**GERT 513 - Intergenerational Programs and Services**

Learners will explode common connections between elders and youth, examine factors that support or hinder intergenerational relationships and develop an intergenerational program of service plan. __Credit Hours: 2 hrs

**GERT 514 - Caregiving and the Elderly**

This course introduces issues affecting families who care for frail or dependent older relatives. Students learn practical interventions with families and examine policies that affect them. __Credit Hours: 2 hrs

**GERT 515 - Sexuality and Aging**

Examines factors affecting sexual expression, capacity and relationships in later life; considers special population needs/issues (e.g., disabled elders, homosexuality, sexuality and dementia, HIV/AIDS, women). __Credit Hours: 1 hr

**GERT 516 - The Elderly and the Law**

This course discusses the legal issues and implications surrounding health care, long-term care, public entitlement programs, termination of life support, guardianship and alternatives, and intergenerational family issues. __Credit Hours: 1 hr

**GERT 517 - Developing Funding Proposals for Aging Programs**

This course is designed to provide the student with grantsmanship theory and an introduction to the basic skills needed to research and select appropriate aging funders, and develop grant proposals for funding aging programs. __Credit Hours: 2 hrs

**GERT 518 - Innovations in Alzheimer’s Care**

This graduate-level seminar will provide an overview of dementia and its impact on quality-of-life issues for families and individuals with Alzheimer’s disease and related conditions. Emphasis will be placed
on exploring innovations in Alzheimer’s care designed to accommodate dementia-related changes through the continuum of the disorder. __Credit Hours: 2 hrs

GERT 523 - Designing Programs for People with Dementia
This seminar examines issues involved in designing meaningful programs that address the cognitive, physical and psychosocial needs of persons with dementia. A fieldwork assignment provides students the opportunity to design, implement and evaluate a small group program. Students may choose a site for this assignment. __Credit Hours: 2 hrs

GERT 524 - Families and Dementia
This class looks at family caregiving of people with dementia by addressing primary concerns, needs, assessment issues and interventions appropriate to the early, middle and late stages of dementia, and the period after the family member’s death. __Credit Hours: 2 hrs

GERT 528 - Advanced Issues in Dementia Care
Seminar focuses in depth on assessment and treatment of Alzheimer’s disease, dementia with Lewy bodies, picks, Creutzfeldt Jakob disease and related disorders. An interdisciplinary team will facilitate discussions on specialized care issues. Students will participate in an innovative service-learning project involving in-home respite. __Credit Hours: 2 hrs

GERT 530 - Assessment of Individuals with Dementia
Course examines in depth the components of a comprehensive geriatric assessment and ways to structure the assessment so that an individualized action plan can be developed for people with dementia. __Credit Hours: 2 hrs

GERT 532 - Aging Through the Eyes of the Old
Course is designed to provide students with an opportunity to learn what it is to experience being old by reading journals and books written by or about older people who use their writings to come to terms with old age. Also, the class will delve into a number of theories that are helpful for understanding the aging process and the readings. Film, music and storytelling will be part of the learning experience. __Credit Hours: 2 hrs

GERT 590 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

GERT 591 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

GERT 592 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

GERT 597 - Independent Study
This course will provide the opportunity for the selection and completion of an individual study under the direction of University faculty members. __Credit Hours: 1 hr

GERT 598 - Independent Study
This course will provide the opportunity for the selection and completion of an individual study under the direction of University faculty members. __Credit Hours: 2 hrs

GERT 599 - Independent Study
This course will provide the opportunity for the selection and completion of an individual study under the direction of University faculty members. __Credit Hours: 3 hrs

GERT 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

GERT 679 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

GERT 680 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

GERT 681 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs
GERT 688 - Gerontology Practicum
Integration and synthesis of knowledge and skills gained from other gerontology courses and life experiences. Also, the humanities perspective in regard to gerontology and career opportunities, including visits to potential places of employment. Students who have not completed a field placement in a gerontology service setting will be required to complete a field placement. __Credit Hours: 2 hrs  _Prerequisites: graduate standing and final semester of study

GERT 689 - Gerontology Practicum
Integration and synthesis of knowledge and skills gained from other gerontology courses and life experiences. Also, the humanities perspective in regard to gerontology and career opportunities, including visits to potential places of employment. Students who have not completed a field placement in a gerontology service setting will be required to complete a field placement. __Credit Hours: 3 hrs  _Prerequisites: GERT215, GERT216 and GEOG332 is recommended  _Notes: This is an undergraduate course available for graduate credit.

GPLN 495 - Environmental Assessment and Planning
An examination of the program elements of environmental impact statements. Geo-based data sources are explored and analyzed. Impact statements are prepared by the class, and existing impact statements are evaluated. __Credit Hours: 3 hrs  _Prerequisites: GPLN215 or GPLN276  _Cross-listed: This course is cross-listed with ESSC495  _Notes: This is an undergraduate course available for graduate credit.

GPLN 490 - Special Topics
An experimental course for subject material not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics courses may be used on a degree program. __Credit Hours: 1 hr  _Prerequisites: department permission

GPLN 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs  _Prerequisites: department permission

GPLN 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs  _Prerequisites: department permission

GPLN 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr  _Prerequisites: department permission

GPLN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr  _Prerequisites: department permission

History

HIST 123 - The United States to 1877
A study of United States history through the Reconstruction following the Civil War. __Credit Hours: 3 hrs

HIST 124 - The United States, 1877 to the Present
A study of United States history from the end of Reconstruction to the present. __Credit Hours: 3 hrs
HIST 411 - England to 1689
The general history of England to the Revolution of 1688, with emphasis on its cultural and constitutional contributions to the modern world. __Credit Hours: 3 hrs _Prerequisites: HIST124 or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 412 - England 1689 to Present
England in the period of imperial expansion, its industrial and social revolutions and its transition into a modern socially minded nation. __Credit Hours: 3 hrs _Notes: A continuation of HIST411. This course is an undergraduate course for graduate credit.

HIST 414 - The Automobile Industry and Modern America
An examination of the European and American origins of the automobile industry, the emergence of Michigan’s dominant position in the industry, and the social, economic and general cultural influence that the automobile and the industry have exerted on 20th-century America. __Credit Hours: 3 hrs

HIST 424 - The United States from 1917 to 1941
A study of United States history from World War I through U.S. entry into World War II. The course covers foreign affairs, national government and politics, economic developments and social trends. World War I, modernization and cultural conflict of the 1920s and the Great Depression, and New Deal of the 1930s receive special attention. __Credit Hours: 3 hrs _Prerequisites: HIST124 or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 426 - The United States from 1963 to the Present
A study of United States history from the presidency of Lyndon B. Johnson to the present. The course covers national government and politics, foreign policy and social history of the American people. The Great Society; Vietnam War; protest movements of the 1960s; Nixon administration and Watergate; economic, social and cultural trends of the 1970s and 1980s; the conservative resurgence; and the Reagan Revolution and its aftermath are among topics that receive special attention. __Credit Hours: 3 hrs _Prerequisites: HIST124 or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 427 - Europe from Absolutism to Revolution, 1648-1815
A political, social and cultural study of Europe from the Peace of Westphalia through the Napoleonic Era. Emphasizes the development of absolutism in France, constitutionalism in England, the Enlightenment and the French Revolution. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HIST 435 - Italy since 1815
The political, social and economic development of Italy from the Congress of Vienna to the present. Emphasizes the unification movement, domestic and foreign problems of the 19th and 20th centuries, World War I and its effects, Mussolini and Fascism, World War II and the new liberal republic. __Credit Hours: 3 hrs _Prerequisites: junior standing or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 441 - The Far East to 1800
A study of the history of China, Korea and Japan from ancient times to the beginning of the 19th century, stressing political, cultural and social developments and the dominant role of China. __Credit Hours: 3 hrs _Prerequisites: one history course _Notes: This is an undergraduate course available for graduate credit.

HIST 442 - Modern China
China from 1800 to the present: traditional Confucian China in crisis, impact of the West, reform and revolution. Republican China, the Communist revolution, China since 1949. __Credit Hours: 3 hrs _Prerequisites: one history course _Notes: This is an undergraduate course available for graduate credit.

HIST 443 - Modern Japan
Japan from 1800 to the present: collapse of the shogunate, 19th-century reforms, rise of the empire to great power status, defeat in World War II, postwar changes. Political, economic and cultural developments are considered. __Credit Hours: 3 hrs _Prerequisites: one course in history _Notes: This is an undergraduate course available for graduate credit.

HIST 450 - European Military History, 1815-1945
This course will examine the European art of war from Napoleon to the end of World War II. Topics include the Boer War, Russo-Japanese War, World War I, Spanish Civil War and World War II. A key question will be the role played by new "hardware," such as rifles, machine guns and the tank. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HIST 451 - History of the First World War 1914-1918
This course will offer a detailed look at the origins, course, and results of the so-called "Great War" from 1914-1918, a conflict
HIST 456 - Europe Since 1945
Study of the political, economic, social and diplomatic history of Europe since the end of World War II, with emphasis on the Cold War, economic recovery and decline, European integration movement, solidarity and dissenion within the communist bloc, stability and unrest within the democracies, and the impact of U.S.-Soviet detente. __Credit Hours: 3 hrs _Prerequisites: one course in history or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 457 - History of Mexico
An introduction to Mexican history from the Amerindian period through the recent past. Examines political, social, economic and cultural developments in the area comprising the present day nation as well as those areas in North America once included in Mexico. __Credit Hours: 3 hrs _Prerequisites: junior standing or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 461 - Foreign Relations of the United States
A survey of the foreign relations of the United States emphasizing the diplomacy of the period after the Civil War. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HIST 463 - United States Labor History
A history of workers in the United States from colonial times to the present with special emphasis on developments occurring between 1820 and 1940. Considers working-class life and culture, labor unions, government-labor relations and the impact of economic change. __Credit Hours: 3 hrs _Prerequisites: one course in history _Notes: This is an undergraduate course available for graduate credit.

HIST 464 - The Old West, 1540-1890
A study of Spanish settlement, the fur trade, great explorations, settlement and expansion, transportation and mining frontiers, the cattle industry and cowboy culture, and the impact on the Indians. __Credit Hours: 3 hrs _Prerequisites: one course in history _Notes: This is an undergraduate course available for graduate credit.

HIST 465 - United States Constitutional History
A history of the development of the American Constitution from English and American colonial origins to the present. __Credit Hours: 3 hrs _Prerequisites: HIST123 or HIST124 or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 466 - The American Mind to the Civil War
Ideas and culture in America during the 17th, 18th and early 19th centuries. Includes such subjects as Puritanism, the Enlightenment and Romanticism/Transcendentalism, together with their general cultural implications. __Credit Hours: 3 hrs _Prerequisites: HIST123 and junior standing _Notes: This is an undergraduate course available for graduate credit.

HIST 467 - The American Mind Since the Civil War
Ideas and culture in America during the late-19th and 20th centuries. Includes such subjects as pragmatism, social Darwinism, nationalism and internationalism, and liberal and conservative thought together with their general cultural implications. __Credit Hours: 3 hrs _Prerequisites: one course in history and junior standing _Notes: This is an undergraduate course available for graduate credit.

HIST 468 - Social and Intellectual History

HIST 469 - Special Topics
An exploration and study of topics not covered in other departmental offerings. Students may elect more than once, provided different topics are studied. __Credit Hours: 3 hrs _Prerequisites: one course in history or department permission _Notes: This is an undergraduate course available for graduate credit.

HIST 480 - The American Revolution
A survey of the transformation of the colonies into the United States of America, with emphasis on British policies and colonial response, the military and diplomatic conduct of the War for Independence, and the impact of the independence on the thirteen states. Attention to historical interpretations will be stressed. __Credit Hours: 3 hrs _Prerequisites: HIST123 and junior standing _Notes: This is an undergraduate course available for graduate credit.

HIST 481 - The Teaching of Social Studies
For intending teachers in junior and senior high schools. Examines the nature of the subjects included in social science in the public schools and the problems related to the teaching of history and other social studies. Not open to students on academic probation. __Credit Hours: 3 hrs _Prerequisites: admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

HIST 482 - The Age of Washington and Jefferson
The formation of the new nation during the War for Independence, the creation of the Constitution, the Federalist era, the Republican administration through Madison's term in office, the War of 1812...
HIST 486 - The United States as an Emerging World Power
The passing of the frontier after the Civil War, the Industrial Revolution, the big city and its problems, Populist revolt and Progressive reform, Imperialism and World War I. __Credit Hours: 3 hrs _Prerequisites: HIST123 or equivalent _Notes: This is an undergraduate course available for graduate credit.

HIST 487 - Internship
Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HIST 505 - Historical Methods
This course encompasses training in research strategies appropriate to a variety of historical resources, as well as instruction in the skills necessary for communicating the results of such research. A workshop approach offers discrete units in library and archive investigation, demographic and cartographic techniques, and oral and local history, culminating in a research paper. __Credit Hours: 3 hrs _Notes: Graduate courses (open to candidates for the M.A. in history or social science, and to students from other disciplines, who wish to take cognate hours in history).

HIST 510 - Studies in the History of Religion
Broad topics in one or more religious traditions, usually Hinduism, Buddhism, Judaism, Christianity and Islam. The current topic will be announced in the time schedule. __Credit Hours: 2 hrs _Prerequisites: one course in history, preferably history of religion

HIST 511 - Studies in Ancient History
Intensive study of selected topics in classical Greek and Roman history during the period

HIST 514 - Studies in Renaissance and Reformation History
An examination of major Renaissance and Reformation issues and developments in their historical setting. __Credit Hours: 3 hrs

HIST 517 - Historical Background of Modern Britain
The history of Great Britain from 1815 to the present, with primary emphasis on institutional development. Political, economic, social and imperial problems will be examined, and Great Britain's role in today's world will be assessed. __Credit Hours: 2 hrs

HIST 518 - Studies in Recent German History
World War I, the Weimar Republic, the rise of national socialism and the national socialist state, World War II and contemporary Germany. __Credit Hours: 2 hrs

HIST 520 - French Revolution and Napoleon, 1774-1815
A study of the French Revolution and its Napoleonic aftermath. Emphasis is placed upon an understanding of the revolutionary movement, interpretation and significance for the future. __Credit Hours: 3 hrs

HIST 521 - Studies in the History of Women in Europe
International struggle for suffrage, women in the French Revolution, women's work and theoretical issues in writing women's history. __Credit Hours: 3 hrs

HIST 522 - Studies in 20th Century Europe
Topics in 20th century European history selected from the following examples: the World Wars, European communism, the fascist experience, the crisis of European democracies, the Cold War, political reconstruction and economic recovery, and postwar social and cultural change. __Credit Hours: 3 hrs

HIST 525 - Technology, Social Change and the Role of Women
This course will examine the nature and origins of technology, the influence of its historical development from classical to modern times on women in the United States and Europe, and problems stemming from current technological advance. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with WGST525

HIST 529 - History of Detroit
History of Detroit from 1701 to the present, examining relations among economic, social and demographic characteristics in each major era. Use of primary sources and field visits to metropolitan Detroit sites will reinforce a major point of analysis, causes of change over time and the effects of those changes. __Credit Hours: 2 hrs

HIST 530 - Urban Communities in U.S. History
A study of the economic, spatial, physical, social and political structure and development of urban communities in the United States from the pre-industrial era to the present. __Credit Hours: 3 hrs

HIST 531 - Studies in Black History
Selected major developments in the history of black Americans from 1619 to the present. __Credit Hours: 3 hrs

HIST 532 - Studies in Native American History
A critical study of the current scholarship in selected chronological topics in the history of native American peoples. __Credit Hours: 3 hrs

HIST 533 - Studies and Techniques in Local History
Topics drawn primarily from the history of
southeast Michigan and the surrounding areas will be used to illustrate the nature of local history, the sources that can be used in its study and the ways in which this study can provide insight into developments of greater scope. **Credit Hours: 3 hrs**  
**Prerequisites:** HIST505

**HIST 534 - Social and Political History of Michigan**

History of Michigan’s development, dating from the French period, emphasizing settlement patterns, migration, immigration and ethnic groupings. Involves broad readings from sources placing Michigan within the context of U.S. development. **Credit Hours: 3 hrs**  
**Prerequisites:** one course in U.S. history or department permission

**HIST 535 - Studies in the History of the Family in the United States**

The study of a significant issue or problem in the history of the family in the United States. The topic will vary from semester to semester. **Credit Hours: 2 hrs**

**HIST 538 - Studies in Colonial American History**

Colonial American political, economic and social institutions; current scholarship and interpretation. **Credit Hours: 2 hrs**  
**Prerequisites:** HIST123 or equivalent

**HIST 541 - The United States, 1825-1860: Ferment and Reform**

An intensive study of the reform movements of the era. Special emphasis is given to women, utopianism, antislavery, immigration, education, temperance, religion and the asylum. **Credit Hours: 2 hrs**

**HIST 543 - Nationalism and Modernization in the Middle East and North Africa**

The development of nationalism and modernization in the Middle East and North Africa from World War I to the present; political and social changes occurring in this developing area. **Credit Hours: 3 hrs**

**HIST 547 - 19th Century Ideological Background of the Russian Revolution**

Russian thought from the accession of Nicholas I (1825) until the Bolshevik Revolution. Major themes to be treated are the Slavophiles and Westernizers, socialism, anarchism, nihilism, populism, liberalism and conservatism. **Credit Hours: 3 hrs**  
**Prerequisites:** one course in modern European history

**HIST 548 - The United States, 1860-1920**

The United States moving into a modern phase after the Civil War, leaving behind the old frontier and the blacksmith economy to enter an era characterized by factories, large cities, a race for colonies and sociopolitical unrest. **Credit Hours: 2 hrs**

**HIST 550 - 20th Century Russia**

Political, diplomatic, social and cultural developments in Russia from 1894 to the present. **Credit Hours: 2 hrs**

**HIST 555 - Studies in Far Eastern History**

Study of selected eras and topics in Far Eastern history. The topic selected will be announced in the time schedule. **Credit Hours: 2 hrs**  
**Prerequisites:** one course in Far Eastern history

**HIST 556 - Studies in Chinese History**

Topics in different eras and areas of Chinese history. The one selected will be announced in the time schedule: for example, the Han Dynasty 202 B.C.–220 C.E. **Credit Hours: 3 hrs**

**HIST 560 - Studies in Latin American History**

An intensive investigation of selected political, economic, social and cultural topics in Latin American history. The specific topics and chronological coverage are announced in the class schedule. **Credit Hours: 2 hrs**

**HIST 584 - Studies in the Gilded Age**

The United States moving into a modern phase after the Civil War, leaving behind the old frontier and the blacksmith economy to enter an era characterized by factories, large cities, a race for colonies and sociopolitical unrest. **Credit Hours: 2 hrs**

**HIST 585 - Studies in 20th Century U.S. History**

Study of selected topics in the history of the United States from 1900 to the present. Topics may vary from semester to semester. **Credit Hours: 2 hrs**  
**Prerequisites:** one course in U.S. history

**HIST 586 - United States in World Politics**

American foreign policy in the 20th century, the nation’s transition to great-power status and its adjustment to the demands of that role. **Credit Hours: 2 hrs**

**HIST 590 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. **Credit Hours: 1 hr**  
**Repeatable:** May be repeated for credit.

**HIST 591 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. **Credit Hours: 2 hrs**  
**Repeatable:** May be repeated for credit.

**HIST 592 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. **Credit Hours: 3 hrs**  
**Repeatable:** May be repeated for credit.
HIST 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. A maximum of six hours may be applied toward a degree program. A maximum of three hours may be taken in any one semester or session. _Credit Hours: 1 hr _Prerequisites: department permission

HIST 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. A maximum of six hours may be applied toward a degree program. A maximum of three hours may be taken in any one semester or session. _Credit Hours: 2 hrs _Prerequisites: department permission

HIST 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. A maximum of six hours may be applied toward a degree program. A maximum of three hours may be taken in any one semester or session. _Credit Hours: 3 hrs _Prerequisites: department permission

HIST 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. _Credit Hours: 1 hr _Prerequisites: department permission

HIST 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

HIST 684 - Workshop in Michigan History
Intensive program using area archives to develop materials for elementary and secondary classroom use. Emphasizes bibliographical development, museum sources and designing a topical framework for teaching Michigan history. _Credit Hours: 3 hrs _Prerequisites: one course in U.S. history

HIST 687 - Cooperative Education in History
Four to six months of full-time employment in a business or industry chosen to provide practical experience in the student’s major field. The cooperative education program consists of one or two work experiences alternating with full-time attendance at the University. _Credit Hours: 3 hrs _When Offered: Offered on a credit/no-credit basis.

HIST 688 - Historiography
A critical study of the writings, philosophy and influence of major historians. _Credit Hours: 2 hrs _Prerequisites: 15 hours of graduate credit in history

HIST 689 - Local History Internship
Supervised internship in local history, mutually agreeable to student, faculty adviser and internship agency. Content varies with students’ needs and interests, and available placement opportunities. _Credit Hours: 3 hrs _Prerequisites: department permission

HIST 690 - Thesis
Intensive research into a historical problem and the preparation of a thesis consistent in substance and form with the standards of the historical profession. _Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

HIST 691 - Thesis
Intensive research into a historical problem and the preparation of a thesis consistent in substance and form with the standards of the historical profession. _Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

HIST 692 - Thesis
Intensive research into a historical problem and the preparation of a thesis consistent in substance and form with the standards of the historical profession. _Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

HIST 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of independent study may be used on a degree program. A maximum of three hours may be taken in any one semester or session. _Credit Hours: 1 hr _Prerequisites: department permission

HIST 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of independent study may be used on a degree program. A maximum of three hours may be taken in any one semester or session. _Credit Hours: 2 hrs _Prerequisites: department permission
HIST 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of independent study may be used on a degree program. A maximum of three hours may be taken in any one semester or session. __Credit Hours: 3 hrs __Prerequisites: department permission

PHIL 426 - Topics in Gender and Philosophy
An examination of gender and its relationship to other issues from a philosophical perspective. Possible topics include rationality, sexuality, aesthetics, ethics and political theory. __Credit Hours: 3 hrs __Prerequisites: two courses in philosophy other than PHIL120 or PHIL130 Cross-listed: This course is cross-listed with WGST426

PHIL 460 - Philosophy of Language
A study of the main philosophical problems raised by twentieth century European philosophy. Topics include: the nature of humanity; institutional power and individual agency; the meaning of sexuality and gender; language, the media, and knowledge. Critical social theory, postmodern philosophy and deconstruction are examined. __Credit Hours: 3 hrs __Prerequisites: two courses in philosophy Notes: This is an undergraduate course available for graduate credit.

PHIL 470 - Contemporary European Philosophy
An exploration of recent developments in European thought. Possible topics include post-structuralist evaluations of Western institutions and ideas, post-Marxist critical theory, the hermeneutic effort to establish interpretation as the basis of philosophical understanding, and the effect of deconstructive thought on philosophy and literature. __Credit Hours: 3 hrs __Prerequisites: two courses in philosophy other than PHIL120 or PHIL130; recommended: PHIL332, PHIL260 or PHIL390 Notes: This is an undergraduate course available for graduate credit.

Health Administration

HLAD 510 - Medical Care Organization
A theoretical approach to the medical care system that allows the consideration of the key problems and issues such as DRG-based prospective payment, alternative delivery systems, and cost-quality tradeoffs. __Credit Hours: 3 hrs __Prerequisites: senior status with a minimum 2.8 GPA

HLAD 511 - Health Law
Legal aspects of health law for the design, administration and regulation of health care services will be explored from the alternative perspectives of providers, reimbursement sources, government and professional accreditation. Contract, tort, advocacy, enforcement of regulations and other topics will be covered, as well as the controversial issues of the definition of life and death, informed consent, medical malpractice, liability and legal entitlement of health care services. __Credit Hours: 3 hrs __Prerequisites: department permission for undergraduates

HLAD 512 - Reimbursement for Health Care Services
This is a survey of the full range of public and private sector methods of reimbursing health care services. The course covers all aspects of private health insurance, Blue Cross and Blue Shield, Medicare, Medicaid, welfare health care reimbursement, government regulation of health insurance, national health insurance proposals and the problem of uninsured populations in the United States. __Credit Hours: 3 hrs __Prerequisites: senior status with minimum 2.8 GPA

HLAD 520 - Healthcare Management Theory
This course will provide a survey and synthesis of behavioral science theories relevant to healthcare management. Various models will be discussed that will help managers find and achieve the delicate dynamic balance between business performance and the mission of patient care. __Credit Hours: 3 hrs

HLAD 521 - Healthcare Finance
The purpose of healthcare financial management is to provide finance procedures and techniques that assist healthcare managers in accomplishing the organization’s purpose. __Credit Hours: 3 hrs

HLAD 523 - Medical Practice Management Care
This course will provide an overview of the managed care industry from the perspective of the physician practice. Topics that will be explored include contract analysis, reimbursement under capitation, marketing, risk-sharing and regulation. __Credit Hours: 3 hrs

HLAD 524 - Healthcare Manager Strategies
This course will identify and explore the fundamental interpersonal competencies that are essential for the healthcare manager’s success. __Credit Hours: 3 hrs

HLAD 525 - Quality Improvement in Health Care
This course will provide a survey and synthesis of quality management in health care. Quality management will be presented using an interdisciplinary perspective, taking into account a number of disciplines, including operations management, organizational behavior and health services research. __Credit Hours: 3 hrs

HLAD 526 - Effective Long-Term Care Administration
This course will include a history of the demographic, economic, political and social factors that have led to a wide variety of long-term care institutions; the many venues of long-term care and how each is organized, marketed, regulated, financed and managed; contemporary issues; end-of-life issues; and the process and expectations of state and national licensing of nursing home administrations. __Credit Hours: 3 hrs __Prerequisites: HLAD510; senior or graduate status
HLAD 550 - Internship
This course is designed as an elective course for students who have completed the four didactic course for the HLAD certificate and no significant practical experience in the content area of the certificate. Depending upon the background of the student between 240 and 300 contact hours will be required. __Credit Hours: 2 hrs _Prerequisites: HLAD520/524 and two content-specific elective courses. Students will be permitted to enroll in prereq courses concurrently.

HLAD 590 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

HLAD 591 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

HLAD 592 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

HLAD 597 - Independent Study
Supervised independent study, investigation, analysis or writing in collaboration with health administration faculty. __Credit Hours: 1 hr _Prerequisites: department permission

HLAD 598 - Independent Study
Supervised independent study, investigation, analysis or writing in collaboration with health administration faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

HLAD 599 - Independent Study
Supervised independent study, investigation, analysis or writing in collaboration with health administration faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

HLAD 600 - Health Care Research Methods
Health services managers and researchers routinely encounter questions that can only be answered through the systematic collection and analysis of data. This course provides a basic introduction to the research methodologies and techniques commonly used in the health care field. Students will learn the fundamental concepts and approaches used in epidemiology, evaluation research and survey research. __Credit Hours: 3 hrs _Prerequisites: undergraduate or graduate level descriptive statistics course (2-3 hrs)

HLAD 610 - Leadership in Health Care Administration
Effective leaders play an indispensable role in health care today. Health care organizations that actively focus on skill building in leadership development programs can dramatically increase productivity and employee commitment. This course will strengthen individual and group problem-solving/decision-making skills, clarify roles and responsibility, define individual and group self-assessment skills, and gain crisis management and leadership skills. __Credit Hours: 3 hrs _Prerequisites: HLAD520

HLAD 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

HLAD 679 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. __Credit Hours: 1 hr _When Offered: Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program.

HLAD 680 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. __Credit Hours: 2 hrs _When Offered: Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program.

HLAD 681 - Special Topics
Topics of state, local and national importance in health services management, administration and policy. __Credit Hours: 3 hrs _When Offered: Offered only in response to special circumstances in the field of health services and faculty availability. Not more than six hours of special topics may be used on a degree program.

HLAD 690 - Integrative Analysis Project I
Application of the research process through development of an integrative analysis project proposal for the culminating experience of the student's graduate program of study. Focus will be on project design and data collection. __Credit Hours: 2 hrs _Prerequisites: HLAD600; completion of 21 credit hours toward MHA; students in the MHA program only; department permission
HLAD 691 - Integrative Analysis Project II
Application of the research process through development of an integrative analysis project proposal for the culminating experience of the student's graduate program of study. Focus will be on project design and data collection. __Credit Hours: 3 hrs _Prerequisites: HLAD690; students in the MHA program only; department permission required

 HLAD 692 - Integrative Analysis Project III
Application of the research process through development of an integrative analysis project proposal for the culminating experience of the student's graduate program of study. Presentation of Integrative Analysis research with emphasis on oral and written methods and skill development. Focus is on disseminating findings and preparation of a presentation and manuscript. __Credit Hours: 1 hr _Prerequisites: HLAD691; students in the MHA program only; department permission required

HLAD 697 - Independent Study
Scholarship, original research and collaborative research, with health administration program graduate faculty. __Credit Hours: 1 hr _Prerequisites: department permission

HLAD 698 - Independent Study
Scholarship, original research and collaborative research, with health administration program graduate faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

HLAD 699 - Independent Study
Scholarship, original research and collaborative research, with health administration program graduate faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

Health Education

HLED 460 - Concepts in Sexuality Education
This course examines the biological and behavioral dynamics of human sexuality and sexuality education with the identification and examination of contemporary issues. Emphasis will be placed on sexuality education in schools and the community. Methods include: lecture, small group discussion, computer applications and student presentations. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HLED 490 - Drug Use and Abuse
This course offers a broad overview of drug use. Historical perspectives of current problems, pharmacology of drugs commonly used and abused, physiological and psychological factors related to abuse, substance abuse prevention programs, treatment and drugs and the law are all addressed. Methods include: lecture, small group discussion, student presentations. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

HLED 495 - Health Education for Diverse Populations
This course is designed to help students identify, and develop, effective health education programming that will lend to the reduction of health disparities which exist in diverse populations. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs

HLED 545 - Sex Education
Designed to provide a period of concentrated study and discussion about sex education for teachers, nurses, school administrators, clergy and interested representatives of community agencies. __Credit Hours: 2 hrs

HLED 546 - Alcohol Use and Abuse
Designed to improve the quality of teaching in alcohol education and the quality of rehabilitative efforts by public and private agencies concerned with alcohol problems. Attempts to develop an understanding of the physiological, psychological and sociological factors related to the use of alcohol. Specifically, it is concerned with developing constructive attitudes toward the alcohol problem and dispelling prejudices, misunderstandings and myths, which obscure facts. __Credit Hours: 2 hrs

HLED 550 - Theoretical and Philosophical Foundations of Health Education
An overview of the history, philosophies, ethical considerations and theories underlying health education practice. Emphasis will be placed on current and future roles and functions of professional health educators in a variety of settings. Methods will include, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs

HLED 555 - Current Health Issues and Trends
An investigation of recent literature, research and practices in health education. Emphasis will be placed on applications to community, school and organizational settings. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs

HLED 558 - Health Education Methods and Materials
An examination of the methods and materials utilized in delivery of health education. Emphasis will be placed on educational strategies for individuals and groups in a variety of settings. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs

HLED 560 - School Health Education Programming and Curriculum
This course is designed to provide school health personnel with an opportunity to study
and understand the function of the coordinated school health program, with special emphasis on the classroom teacher. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs _Prerequisites: HLED550 and HLED555

HLED 562 - Health Education Program Planning
A study of the various models and processes used in the development of health education programs. Students will gain skills necessary to plan health education programs for a wide variety of target populations and settings. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs _Prerequisites: HLED550 and HLED555

HLED 565 - Women’s Health
This class will provide an integrated, multidisciplinary approach to women’s health. Methods include: lectures, discussion, cooperative group activity, self-awareness activities and use of the World Wide Web. __Credit Hours: 3 hrs

HLED 570 - Measurement in Health Education
This course is designed to provide students with the knowledge and skills necessary to identify, develop and conduct protocols to assess individual and group needs for health education as well as program impact and outcomes. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs

HLED 575 - Implementation and Administration of Health Education Programs
An overview of the process of health education program implementation and administration. Students will gain knowledge and skills necessary to effectively and efficiently conduct health education programs. Methods will include lecture, discussion and classroom activities designed to enhance application of course content. __Credit Hours: 3 hrs _Prerequisites: HLED550, HLED570, HLED555 and either HLED562 or HLED560

HLED 590 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in health education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

HLED 591 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in health education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

HLED 592 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in health education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

HLED 595 - Workshop in Health Education
A specialized workshop in the area of health education, with the central theme to be announced. __Credit Hours: 2 hrs

HLED 597 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

HLED 598 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

HLED 599 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

HLED 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

HLED 643 - Problems in Community Health
Community health problems and the forces operative in their solution and the role of the educators in dealing with the health problems of their environment. __Credit Hours: 2 hrs _Prerequisites: HLED640

HLED 645 - Problems in Sex Education
A course designed to help school personnel improve and implement comprehensive sex education programs in the schools, K-12. The focus is on the improvement of skills and techniques in teaching and program development. __Credit Hours: 2 hrs

HLED 650 - Administration of the School Health Program
For principles, supervisors, coordinators, athletic directors and other personnel involved with the administration and leadership in school health programs. Current administrative theory in the implementation and improvement of school health programs. __Credit Hours: 2 hrs

HLED 679 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in health
education. Not more than six hours of special topics may be used on a degree program.  __Credit Hours: 1 hr

HLED 680 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specializations areas of study in health education. Not more than six hours of special topics may be used on a degree program.  __Credit Hours: 2 hrs

HLED 681 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specializations areas of study in health education. Not more than six hours of special topics may be used on a degree program.  __Credit Hours: 3 hrs

HLED 690 - Project in Health Education
A practical application of health education programming principles to a specific problem identified by the student and supervised by a faculty committee.  __Credit Hours: 3 hrs  _Prerequisites: HLED550, HLED555, HLED558, HLED570, HLED575, HPHP505 and either HLED562 or HLED560. Department permission is required.  _Corequisite: _HLED695

HLED 692 - Thesis in Health Education
An intensive study into the opportunities and challenges encountered while planning, implementing and evaluating health education programs. Students will participate in problem solving activities requiring the synthesis and integration of theory, principles, research, knowledge and skills gained through previous academic

PHED 470 - Assessment and Evaluation in Physical Education
The discriminating selection, administration, interpretation and use of standardized tests and measurements in physical education. Entry into College of Education required.  __Credit Hours: 2 hrs  _Notes: This is an undergraduate course available for graduate credit.

PHED 500 - Philosophical and Ethical Issues in Physical Education
Inquiry into major philosophies (realism, idealism, pragmatism, existentialism, phenomenology) and ethical issues as each relates to Physical Education; research, discussion and reflection on how philosophy influences current Physical Education practices; alignment of personal and professional philosophy of physical education through examination of philosophical and ethical issues.  __Credit Hours: 3 hrs  _Prerequisites: major/minor

PHED 506 - Test Construction
Types of written tests and examinations; construction, selection and interpretation of results.  __Credit Hours: 2 hrs

PHED 521 - Legal Liability of Educators and Athletic Coaches
A course designed to provide an opportunity for students to explore the provisions of state legislation, common law, governmental immunity and the legal defenses to the tort of negligence as they relate to the avoidance of being successfully named as a defendant in civil litigation alleging professional negligence.  __Credit Hours: 2 hrs

PHED 542 - Advanced Human Physiology
An advanced examination of the functioning of the human organism covering topics not covered in detail in an introductory human physiology course or other departmental offerings. The emphasis is on the interaction of body systems and their application to the field of sports medicine.  __Credit Hours: 3 hrs  _Prerequisites: SPMD201/202
PHED 550 - Applied Physical Education Technologies
Provides an overview of how technology is infused in physical education and movement professions. Through the use of internet, lecture/demonstration and hands-on experiences, students use and evaluate software, hardware and peripheral devices applicable to school and non-school settings. __Credit Hours: 3 hrs

PHED 565 - Problems in Intramural and Extramural Sports
Organization and administration of intramural and extramural sports in junior and senior high schools; practical aspects of programming for groups and individuals. __Credit Hours: 2 hrs

PHED 566 - Sport in American Society
A critical study of sport in American Society. The course highlights the changing role of sport in American culture. Topics include the institution of sport, socialization into and out of sport, race and sport, gender and sport, current events and the future of the role of sport in society. __Credit Hours: 3 hrs

PHED 568 - Evaluation and Implementation of Physical Fitness Programs
Current theories and research in physical fitness in our society; evaluation of school programs; development of techniques to increase physical fitness and fitness knowledge in the school population. __Credit Hours: 3 hrs

PHED 570 - Critical Analysis of Physical Education
The expanding of physical education and the physical educator; and analysis of research in the foundation sciences and in philosophy. __Credit Hours: 2 hrs

PHED 572 - Design and Implementation of Wellness Programs
A required course for the adult/corporate fitness concentration in the master’s degree program in physical education. Instruction covers the essential skills needed to design and implement adult wellness programs. __Credit Hours: 3 hrs

PHED 578 - Motor Development and Learning
A study of motor skill development based on age and growth patterns of children. An inquiry into major theories of motor development and motor learning. Research, discussion and application of theories as they relate to how school age students actually learn motor skills and movement patterns. __Credit Hours: 3 hrs

PHED 579 - Physical Education for the Mentally Impaired
Physical education curriculum and programming for the mentally impaired. Content includes program goals, assessment, prescription, teaching and program evaluation. Emphasis will be placed on adapting materials and utilizing alternative teaching strategies to individualize instruction. __Credit Hours: 2 hrs

PHED 580 - Comparative Physical Education
The historical heritage of physical education from ancient cultures (Greece, Rome, China, etc.) to modern America; studies of objectives, practices and programs of ancient cultures that led to modern physical education programs. __Credit Hours: 3 hrs

PHED 581 - Physical Education for Students with Disabilities
Physical education curriculum and programming for the student with a disability. Content includes program goals, assessment, prescription, teaching and program evaluation. Emphasis will be placed on adapting materials and utilizing alternative teaching styles to individualized instruction in both inclusion and self-contained teaching situations. __Credit Hours: 3 hrs

PHED 582 - Skill Analysis
A class designed to further analyze skills. A skill-analysis model will be developed based upon research from motor behavior and biomechanical theory. __Credit Hours: 3 hrs __Prerequisites: kinesiology or instructor permission

PHED 583 - Teaching Effectiveness in Physical Education
An examination of effective teaching by establishing realistic objectives, observation and analysis of instruction. A study of teaching strategies and current research related to teaching in physical education. __Credit Hours: 3 hrs

PHED 584 - Physical Education Curriculum and Instructional Design
A lecture and discussion course for the graduate student in physical education. This course will define curriculum, explore the basis for curriculum planning, establish an organizational plan for developing curriculum and evaluate an established physical education program. __Credit Hours: 3 hrs

PHED 585 - Mentoring and Supervision in Physical Education
An advanced course for preparing physical educators to supervise student teachers and mentor beginning physical educators during their induction years. Students will study theoretical models of supervision and mentoring and connect research with teaching practice through development and implementation of authentic learning projects. __Credit Hours: 3 hrs

PHED 588 - Skill Analysis
A class designed to further analyze skills. A skill-analysis model will be developed based upon research from motor behavior and biomechanical theory. __Credit Hours: 3 hrs __Prerequisites: kinesiology or instructor permission

PHED 589 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

PHED 590 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

**PHED 592 - Special Topics**
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

**PHED 594 - Workshop**
A specialized workshop in the area of physical education, with the central theme to be announced. __Credit Hours: 1 hr

**PHED 595 - Workshop**
A specialized workshop in the area of physical education, with the central theme to be announced. __Credit Hours: 2 hrs

**PHED 596 - Biomechanics of the Musculo-Skeletal System**
A required course for the biomechanics concentration in the master’s degree program in physical education. Instruction will focus on biomaterials, joint motion, measurement techniques and approaches to modeling biomechanical systems. __Credit Hours: 3 hrs _Prerequisites: PHED200, PHED300 and PHY221

**PHED 597 - Independent Study**
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

**PHED 598 - Independent Study**
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

**PHED 599 - Independent Study**
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

**PHED 606 - Colloquium**
Credit Hours: 1 hr

**PHED 607 - Colloquium**
Credit Hours: 2 hrs

**PHED 608 - Colloquium**
Credit Hours: 3 hrs

**PHED 639 - Continuous Enrollment**
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**PHED 665 - Sport and Exercise Psychology**
An overview of the history, philosophies, theories and ethical considerations of sport and exercise psychology. The course will cover both the theoretical and applied nature of the field. __Credit Hours: 3 hrs

**PHED 679 - Special Topics**
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

**PHED 680 - Special Topics**
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

**PHED 681 - Special Topics**
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in physical education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

**PHED 686 - Internship**
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be made by adviser prior to registration __Credit Hours: 1 hr

**PHED 687 - Internship**
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be made by adviser prior to registration __Credit Hours: 2 hrs

**PHED 688 - Internship**
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be made by adviser prior to registration __Credit Hours: 3 hrs

**PHED 689 - Internship**
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be made by adviser prior to registration __Credit Hours: 4 hrs

**PHED 690 - Thesis**
Completion of research and/or analytical problem, writing of thesis and committee
PHED 691 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. _Credit Hours: 2 hrs _Prerequisites: department permission

PHED 692 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. _Credit Hours: 3 hrs _Prerequisites: department permission

PHED 694 - Seminar-Physical Education
A specialized seminar in the area of physical education, with the central theme to be announced. _Credit Hours: 2 hrs

PHED 697 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

PHED 698 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

PHED 699 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

SPMD 430 - Principles of Electrocardiography
A three-hour undergraduate course on the basics of electrocardiography. The student will learn the basic concepts of conduction, rate, rhythm, axis determination, hypertrophy infarction and the effects of drug therapy.

SPMD 431 - Pathophysiology for Sports Medicine
A required course for sports medicine majors that relates normal body functioning to the physiologic changes that occur as a result of injury and disease, and examines the effects of physical activity on these processes. _Credit Hours: 3 hrs _Prerequisites: PHED300/SPMD300 and candidacy _Notes: This is an undergraduate course available for graduate credit.

SPMD 433 - Principles of Strength and Conditioning
The purpose of this course is to have the student integrate components within the discipline of exercise science (e.g., exercise physiology, biomechanics, growth and maturation, nutrition, etc.) and demonstrate an understanding of their utility in the design and implementation of aerobic and anaerobic exercise programming. Special emphasis will be placed within the area of resistance training, and the opportunity to prepare for professional fitness certification. _Credit Hours: 3 hrs _Prerequisites: SPMD305, PHED300/SPMD300 or department permission _Notes: This is an undergraduate course available for graduate credit.

THRC 481 - Adapted Aquatics
Aquatic instructional techniques in working with special populations including physically disabled, developmentally disabled, emotionally impaired and the aged. Lectures, films, swimming skills, adaptations of swimming skills and 20 hours of fieldwork. _Credit Hours: 2 hrs _Notes: This is an undergraduate course available for graduate credit.

HRM 521 - Quality Service Management
This course is designed to explore, challenge and define the principles of guest service management in any hospitality organization. Topics include characteristics and attributes of service, analysis of service gaps and development of service strategies to address these gaps and develop service recovery procedures. _Credit Hours: 3 hrs

HRM 560 - Service Strategies for Hospitality Industry
A review of current service strategies used to provide total guest satisfaction in customer contact areas, facilities provided and marketing/promotion of lodging properties and food-service operations. _Credit Hours: 3 hrs

HRM 587 - Cooperative Education in Hospitality Management - Study Abroad
This study abroad tour to Europe is designed to familiarize students with European hospitality management. This eight day trip will include visits to two major European cities, which will vary from year to year. Topics will include cultural impacts on lodging and food and beverage operations in the European Economic Community. _Credit Hours: 3 hrs _Prerequisites: Two graduate level HRM courses and admitted to the Hotel and Restaurant Management Program.

HRM 587 - Cooperative Education in Hospitality Management
Provides practical experience in the student’s concentration for four to six months of full-time employment with an individual employer. May not be used on 30-hour program plan for the master’s degree. _Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.
HRM 590 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

HRM 591 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

HRM 592 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

HRM 597 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr _Prerequisites: department permission

HRM 598 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 2 hrs _Prerequisites: department permission

HRM 599 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 3 hrs _Prerequisites: department permission

HRM 600 - Research I
Application of the research process through development of a research project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the research project report. __Credit Hours: 2 hrs _Prerequisites: DTC500 and EDPS621

HRM 607 - Colloquium
A colloquium exploring research on contemporary topics of relevance to the hospitality industry professional. __Credit Hours: 2 hrs

HRM 609 - Advanced Topics in Food-Service Management
This course is an in-depth study of the major trends and current issues of concern to the food service management professional. Issues pertaining to the identification and analysis of events, trends and forces arising from the external environment will be explored. These include economic, technological, political and regulatory environments, and sociocultural trends. __Credit Hours: 3 hrs _Prerequisites: a course in food service/meal management or department permission

HRM 610 - Advanced Topics in Hospitality Management
This course is an in-depth study of the major trends and current issues of concern to the hospitality management professional. Issues pertaining to the identification and analysis of events, trends and forces arising from the external environment will be explored. These include economic, technological, political and regulatory environments, and sociocultural trends. __Credit Hours: 3 hrs _Prerequisites: two courses in hospitality/food-service management or department permission

HRM 626 - Productivity Management in Hospitality and Food-Service Facilities
Review of productivity as related to human resource management, work methods, supplies and equipment, technology innovations, work environments and worker wellness, while maintaining cost and quality standards. __Credit Hours: 3 hrs

HRM 630 - International Hospitality Management
This course is focused on providing a better understanding and deeper appreciation of management and marketing applications within a globalized context. The course presents a systematic approach to preparing students for leadership roles in tomorrow’s worldwide hospitality industry. __Credit Hours: 3 hrs

HRM 640 - Contemporary Issues in Hospitality Strategy
The focus of this course is to develop an understanding of basic strategic management concepts as applied in the hospitality industry. Students will have the opportunity to apply concepts, tools and techniques that have been widely used by strategic planners effecting hotel, restaurant and tourism business in the 21st century. __Credit Hours: 3 hrs

HRM 650 - Research III
Presentation of culminating experience with emphasis on oral and written methods and skill development. Focus is on research project oral presentation and preparation of a poster presentation and a manuscript. __Credit Hours: 1 hr _Prerequisites: HRM695

HRM 655 - Financial Strategies for Hospitality Operations
A review of current cost control strategies used to manage food and beverage operations, human resources, facility maintenance/engineering, marketing of lodging properties and food-service operations. __Credit Hours: 3 hrs

HRM 679 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

HRM 680 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program.  

**Credit Hours:** 2 hrs  
**Prerequisites:** department permission

**HRM 681 - Special Topics**  
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program.  

**Credit Hours:** 3 hrs  
**Prerequisites:** department permission

**HRM 683 - Workshop**  
A workshop guided toward problems and practical concerns resulting from current trends of immediate concern to the hospitality professional.  

**Credit Hours:** 3 hrs  
**Prerequisites:** department permission

**HRM 685 - Hospitality Operations Management Project**  
This culminating class is an in-depth study of the application of knowledge and skills acquired through classroom study and industry work experience. The use of strategic vision and planning when addressing current operational problems in food service of lodging site involving human resources, financial impact, marketing, service quality and global application issues will be included.  

**Credit Hours:** 3 hrs  
**Prerequisites:** admission hotel and restaurant master’s program, department permission, HRM609, HRM610, TS507 and three 500- or 600-level HRM courses

**HRM 686 - Practicum**  
Supervised work experience in field placement/internship site determined by student and adviser.  

**Credit Hours:** 1 hr  
**Prerequisites:** department permission

**HRM 687 - Practicum**  
Supervised work experience in field placement/internship site determined by student and adviser.  

**Credit Hours:** 2 hrs  
**Prerequisites:** department permission

**HRM 688 - Practicum**  
Supervised work experience in field placement/internship site determined by student and adviser.  

**Credit Hours:** 3 hrs  
**Prerequisites:** department permission

**HRM 689 - Practicum**  
Supervised work experience in field placement/internship site determined by student and adviser.  

**Credit Hours:** 4 hrs  
**Prerequisites:** department permission

**HRM 690 - Thesis III**  
Presentation of thesis research with emphasis on oral and written methods and skill development. Focus is on thesis defense and preparation of a poster presentation and manuscript.  

**Credit Hours:** 1 hr  
**Prerequisites:** HRM692

**HRM 691 - Thesis I**  
Application of the research process through development of a thesis project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the thesis.  

**Credit Hours:** 2 hrs  
**Prerequisites:** DTC500 and EDPS621

**HRM 692 - Thesis II**  
Execution of a research project and preparation of thesis as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the thesis.  

**Credit Hours:** 3 hrs  
**Prerequisites:** HRM691 and department permission

**HRM 695 - Research II**  
Execution of a research project and preparation of a written report as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the research project report.  

**Credit Hours:** 3 hrs  
**Prerequisites:** HRM600

**HRM 697 - Independent Study**  
An intensive study of a selected professional problem, under the direction of a faculty adviser.  

**Credit Hours:** 1 hr  
**Prerequisites:** department permission

**HRM 698 - Independent Study**  
An intensive study of a selected professional problem, under the direction of a faculty adviser.  

**Credit Hours:** 2 hrs  
**Prerequisites:** department permission

**HRM 699 - Independent Study**  
An intensive study of a selected professional problem, under the direction of a faculty adviser.  

**Credit Hours:** 3 hrs  
**Prerequisites:** department permission

**Public Safety**

**HSEM 412 - Organizational Behavior for Public Safety Managers**  
This course will allow students to synthesize the structure and procedures of strategic management and project management. The course will integrate the ideas and information presented in other courses within the technology management concentration core. Students will demonstrate their ability to integrate information ascertained from previous classes within a capstone project.  

**Credit Hours:** 3 hrs  
**Notes:** This is an undergraduate course available for graduate credit.

**HSEM 434 - Incident Analysis Hazardous Materials**  
An examination of hazardous material incidents from the perspective of the public safety officer/manager charged with protecting people and property; identifying hazardous materials, assessing hazardous material accidents, planning and tactics for addressing hazardous material problems.  

**Credit Hours:** 3 hrs  
**Prerequisites:** CHEM117/118 or PHY221  
**Notes:** This is an undergraduate course available for graduate credit.

**PS 523 - School Safety — Emergency**
Planning/Incident Management
Course provides analysis and strategies for educators in their response capabilities to school safety. Technical and natural disaster preparation, incident command system for educators, techniques for bomb searching, preparation for weapons of mass destruction and school shootings will be covered. Site security analysis will be applied. __Credit Hours: 3 hrs

PS 587 - Co-operative Education
Credit Hours: 3 hrs

PS 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

PS 591 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

PS 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: graduate standing or department permission

PS 593 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 5 hrs _Prerequisites: graduate standing or department permission

PS 594 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 6 hrs _Prerequisites: graduate standing or department permission

PS 595 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 7 hrs _Prerequisites: graduate standing or department permission

PS 596 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 8 hrs _Prerequisites: graduate standing or department permission

PS 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PS 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

PS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

PS 600 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PS 601 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PS 602 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PS 603 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PS 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PS 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

PS 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Staff and Command

HSEM 435 - Incident Command
The study of complex fire situations, including analysis of prefire planning, establishing and managing the command post, and effective management of complex fireground operations. Emphasizes the study of multiple company response and the efficient utilization of available and
prospective resources in handling major fires. __Credit Hours: 3 hrs _Prerequisites: PLSC450 or department permission _Notes: This is an undergraduate course available for graduate credit.

SSC 433 - Arson Investigation
An examination of the nature and causes of suspicious and incendiary fires, their detection and investigation; involves classroom lecture and field training. Students will conduct fire scene investigations, collect evidence, document findings, and participate in a mock trial. Assumes no previous experience in fire investigation. Students must provide their own 35mm camera, safety shoes, gloves and hard hat. __Credit Hours: 3 hrs _Prerequisites: CHEM117/118 or PHY221 _Notes: This is an undergraduate course available for graduate credit.

SSC 525 - Management/Leadership for Homeland Security
This course addresses various leadership theories and an analysis of public safety management elements including planning, organizing, leading, controlling and communicating. The course is presented in the context of, and applied to, internal police/fire/emergency management administration. __Credit Hours: 2 hrs

SSC 529 - Foreign and Domestic Terrorism for First Responders
This is a technical course that provides for the preparation and response to a foreign or domestic act of terrorism. Students will explore the technology of weapons of mass destruction, how to prepare their communities, respond to the incident, and mitigate the effects of a terrorist act. __Credit Hours: 3 hrs

SSC 530 - Administering the Public Safety Agency
This course provides a "big picture" view of the public safety administrative process. Topics include community relations, budgeting, employee wellness, line of duty deaths, legal issues, consolidation of services, and the negotiation and administrative of labor contracts. These topics are addressed from the perspective of the upper level command officer. __Credit Hours: 2 hrs

SSC 535 - Planning and Decision Making for Homeland Security
Planning and decision-making is central to the command officer's role. This course provides the foundation for the planning and decisions that must be made relevant to every aspect of administering an agency. The knowledge, skills, administration of the agency and homeland security. __Credit Hours: 2 hrs

SSC 540 - Human Resource Management in Public Safety Agencies
Human Resource Management includes the process of recruiting, assessing, selecting, training, placing of employees. It also involves managing employee performance (e.g., performance evaluation). This course examines the staffing process and provides participants with tactics to ensure the highest qualified candidate is selected and developed. __Credit Hours: 2 hrs

SSC 545 - Managing the critical Incident for Homeland Security
This course applies current Homeland Security polices to critical decision making in tactical situations. The student will apply mitigation, preparedness, response and recovery tactics as they relate to intelligence, communication, and incident command. A table top exercise will provide an application experience. __Credit Hours: 2 hrs

SSC 550 - Managing Technology in the Public Safety Environment
This course is an application of current software and management of the IT function as it applies to public safety agencies. The student will utilize concepts from other courses in the application of Microsoft Word, Excel, Power Point and Visio, and gain an understanding of how these software programs are beneficial to the public safety organization. __Credit Hours: 2 hrs

SSC 587 - Co-operative Education
Credit Hours: 3 hrs

SSC 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

SSC 591 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

SSC 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

SSC 593 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: graduate standing or department permission

SSC 597 - Independent Study
An intensive study of a problem or group of
SSC 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SSC 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SSC 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

SSC 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

SSC 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

SSC 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 1 hr _Prerequisites: department permission

SSC 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 2 hrs _Prerequisites: department permission

SSC 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 3 hrs _Prerequisites: department permission

SSC 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SSC 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SSC 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

IA 532 - Audit Controls in Information Security
A course for the information system security professional, emphasizing the audit and control of information systems. The course follows the curricula recommendations of the Information Systems Audit and Control Association (ISACA), Information Systems Audit and Control Foundation (ISACF) and uses Control Objectives for Information and Related Technology (COBIT). __Credit Hours: 2 hrs _Prerequisites: ISEC542 and ISEC543

IA 533 - Cybercrime I
Intensive hands on investigation of computer related crime designed for the profession as an electronic crime investigator. Course prepares students to become effective cyber crime investigators. Students will identify, evaluate, classify and demonstrate proficiency in investigating computer related crimes. Students subject to background investigation prior to admittance. __Credit Hours: 3 hrs _Prerequisites: department permission

IA 542 - Information System Security for Managers
Provides a broad overview of threats to security of information systems, responsibilities and tools for information security, emphasis needed in organizations to reach and maintain a state of acceptable security. Included topics include management’s role in information security, foundations of information security, privacy, regulatory, legal and policy issues. __Credit Hours: 3 hrs

IA 543 - Systems Operating Environment for Information Security Systems Administrators
Discusses specific information security technical defenses including operating system security, network security, infrastructure protection, approaches to protecting against viruses and rogue code, firewalls, identification and authentication, and
encryption and public key infrastructure (PKI). Concepts such as quality assurance in an information security environment, anti-piracy techniques, security architecture development, Internet-facing system security and safeguards for eCommerce are also important parts of this course. _Credit Hours: 2 hrs

**IA 544 - Administrative Information Security Procedures**

Development and evaluation of administrative policies and procedures required to administer an information system in a secure environment. Emphasis on writing information security policies that comply with federal information security guides and directives as applicable regulations, business continuity/disaster recovery and incident response plans, developing security awareness programs, and risk management. _Credit Hours: 2 hrs

**IA 546 - Vulnerability, Risk and Analysis**

The identification of vulnerabilities and risks inherent in the operation and administration of information systems will be explored. Countermeasures will be discussed and documented in an effort to counter identified vulnerabilities. _Credit Hours: 2 hrs

**IA 547 - Cybercrime II**

Applied course which focuses attention on the evaluation and synthesis of information in cyber crime investigations. Knowledge will be gained on Fraud Investigation, Malicious Logic, Encryption, Intrusion Detection, hacking and cracking and Internet Child Pornography. Students subject to background investigation prior to admittance. _Credit Hours: 3 hrs _Prerequisites: IA558 and department permission

**IA 558 - Computer Forensics I**

This course addresses the comprehension and application of Computer Forensic Investigations. Students will evaluate and synthesize technical and legal issues in relation to digital evidence. Students will apply various skills and techniques, combined with numerous investigative software tools to analyze seized electronic media. Students subject to background investigation prior to admittance. _Credit Hours: 3 hrs _Prerequisites: IA533/IA557 and department permission

**IA 559 - Computer Forensics II**

Comprehension of network forensic investigations and application of investigative framework methodologies. Students will apply Linux for forensic analysis, and Access Data Forensic Tool Kit. Evaluation of Stenography tools and field acquisition of electronic media will be presented. Students subject to background investigation prior to admittance. _Credit Hours: 3 hrs _Prerequisites: IA558 and department permission

**IA 587 - Co-operative Education**

Credit Hours: 3 hrs

**IA 590 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 4 hrs _Prerequisites: graduate standing or department permission

**IA 593 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

**IA 597 - Independent Study**

An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

**IA 598 - Independent Study**

An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

**IA 599 - Independent Study**

An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

**IA 679 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

**IA 680 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

**IA 681 - Special Topics**

Provides for intensive study of selected topics
drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program.  

IA 690 - Thesis
Completion of research problem, writing thesis and defense of thesis.  

IA 691 - Thesis
Completion of research problem, writing thesis and defense of thesis.  

IA 692 - Thesis
Completion of research problem, writing thesis and defense of thesis.  

IA 694 - Professional Seminar in Information Security/Assurance
This course provides culminating experience for students completing their master’s degrees, as well as those completing their graduate certificates in information security/assurance. It will include discussion, research and experimental activities that encourage students to apply academic achievements to functional professional situations.  

IA 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member.  

IA 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member.  

IB 610 - Globalization and Business Environment
This course takes an interdisciplinary approach and examines worldwide integration in cultural, economic, political, industrial, technological and other spheres to gauge the impact of globalization on organizations and people worldwide. The primary objective of this course is to provide students with an understanding of the effects of worldwide integration resulting from globalization.  

IDE 501 - Problems in Interior Design
Analyzing and solving the problems of interiors, with regard to social, psychological and economic concerns of families.  

IDE 502 - Facility Programming and Post-occupancy Evaluation
An examination of the techniques and concepts used in facility programming and post-occupancy evaluation; their interrelatedness and their application in facility management.  

IDE 503 - Physical Environments for Aging
The course will explore the interrelationship between the physical and psychosocial changes that occur with normal aging and the designed environment. Environmental assessments and recommendations to accommodate normal aging and the related physical impairments will be addressed.  

IDE 504 - Computer-Aided Design for Interiors
An examination of CAD applications in interior design research and practice. Emphasis on interactive programming, simulation, computer-aided planning (CAP) and computer-aided facility management.  

IDE 508 - Universal and Barrier-Free Design
The course will explore the creation, evolution and application of barrier-free construction codes and their relationship to the American National Standards Institute and other federal legislation. Design analysis of residential and nonresidential interior environments for individuals with specific disabilities will be emphasized.  

IDE 515 - Design and Management of Health Care Facilities
This course will explore issues and trends in health care facility design and management, an important specialization within the interior design field. Appropriate for students either majoring in interior design or those from other programs.  

IDE 587 - Cooperative Education in Interior Design
Provides practical experience in the student’s concentration for four to six months of full-time employment with an individual employer. May not be used on 30-hour program plan for the master’s degree.  

IDE 590 - Special Topics
An experimental course designed to investigate specific topics of concern in the
specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr__Prerequisites: department permission

IDE 591 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 592 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs__Prerequisites: department permission

IDE 597 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr__Prerequisites: department permission

IDE 598 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 599 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 3 hrs__Prerequisites: department permission

IDE 600 - Research I
Application of the research process through development of a research project proposal for the culminating experience of the student’s graduate program of study. Focus will be on writing chapters 1-3 of the research project report. __Credit Hours: 2 hrs__Prerequisites: DTC500 and EDPS621

IDE 601 - Interior Design Research Methods
Advanced research methods course to investigate qualitative and quantitative methodologies used in interior design research. __Credit Hours: 2 hrs__Prerequisites: DTC500 or equivalent

IDE 603 - History of Furniture and Contemporary Trends
A study of furniture of various periods of history and the relationships to contemporary styles. __Credit Hours: 2 hrs

IDE 604 - American Interiors
An investigation of the relationships between the various components of interior enhancement and indigenous arts and crafts, and the major developments in American domestic architecture, 1500-1900. __Credit Hours: 2 hrs

IDE 607 - Colloquium
A colloquium exploring research on contemporary topics of relevance to the interior design professional. __Credit Hours: 2 hrs

IDE 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr__Prerequisites: department permission

IDE 650 - Research III
Presentation of culminating experience with emphasis on oral and written methods and skill development. Focus is on research project oral presentation and preparation of a poster presentation and a manuscript. __Credit Hours: 1 hr__Prerequisites: IDE695

IDE 679 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 680 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 681 - Special Topics
An experimental course designed to investigate specific topics of concern in the specialization areas of study. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 683 - Workshop
A workshop guided toward problems and practical concerns resulting from current trends of immediate concern to the hospitality professional. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 686 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 1 hr__Prerequisites: department permission

IDE 687 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 2 hrs__Prerequisites: department permission

IDE 688 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 3 hrs __Prerequisites: department permission

IDE 698 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 2 hrs __Prerequisites: department permission

IDE 699 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 3 hrs __Prerequisites: department permission

IDE 690 - Practicum
Supervised work experience in field placement/internship site determined by student and adviser. __Credit Hours: 3 hrs __Prerequisites: department permission

IDE 690 - Thesis/Project II
Execution of a research project or preparation of thesis as the culminating experience for the student’s graduate program of study. __Credit Hours: 3 hrs __Prerequisites: IDE691 and department permission

IDE 697 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr __Prerequisites: IDE697

IDE 691 - Thesis/Project I
Application of the research process through development of a thesis project proposal for the culminating experience of the student’s graduate program of study. __Credit Hours: 2 hrs __Prerequisites: DTC500 and EDPS621

IDE 692 - Thesis/Project II
Execution of a research project or preparation of thesis as the culminating experience for the student’s graduate program of study. __Credit Hours: 3 hrs __Prerequisites: IDE691 and department permission

IDE 695 - Research II
Execution of a research project and preparation of a written report as the culminating experience for the student’s graduate program of study. Focus will be on revising chapters 1-3 and writing chapters 4-5 of the research project report. __Credit Hours: 3 hrs __Prerequisites: IDE695

IDE 697 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr __Prerequisites: department permission

Integrated Marketing Communication

IMC 601 - Principles, Strategies and Tactics
This course introduces the key principles of integrated marketing communications and its role in building brands. Students will learn the synergistic effect across communication channels and the perspectives of all relevant stake holders in such a way that brand value is maximized. __Credit Hours: 3 hrs __Prerequisites: IMC601

IMC 602 - Brand Development
This course provides a comprehensive foundation on the subject of brands, brand development, brand equity and strategic brand management. It covers the design and implementation of IMC programs to build, measure and manage brand equity. __Credit Hours: 3 hrs __Prerequisites: IMC601, IMC 603 and IMC 604

IMC 603 - Audience Behavior
This course introduces students to the concepts of audience behavior applicable to integrated marketing communications. It studies the fundamental factors influencing consumer cognitive, affective and behavioral response in the marketplace. It applies concepts, theories and principles from various social sciences to explore and explain audience behavior with a focus on implementing IMC strategies. __Credit Hours: 3 hrs __Prerequisites: IMC601

IMC 604 - Marketing Communications Research
This course examines the roles and applications of both secondary and primary research within an IMC plan. Qualitative and quantitative methods will be studied and applied including processes for structuring, conducting and analyzing focus groups, surveys, sampling, measurements and analytical procedures. __Credit Hours: 3 hrs __Prerequisites: IMC601

IMC 605 - Creative Message Strategy
This course offers a comprehensive study of creative strategy and its role in the IMC process. Students will learn how to prepare a creative strategy statement and how to apply it consistently in the design and writing of communication messages. __Credit Hours: 3 hrs __Prerequisites: IMC602

IMC 606 - Multichannel Media I
This course provides a foundation in traditional media metrics and analysis emphasizing an applied approach. It focuses on strategic media planning issues and media applications in IMC. __Credit Hours: 3 hrs __Prerequisites: IMC602
IMC 607 - Multichannel Media II
This course focuses on media planning and strategies in IMC with an emphasis on digital, interactive, emerging and experimental media. The course will examine the relationship with legacy media and merging information platforms. __Credit Hours: 3 hrs _Prerequisites: IMC606

IMC 608 - Direct Marketing
This course covers direct marketing from an integrated marketing communications perspective. The course examines the concepts, strategies and applications involved in direct marketing and how they are integrated in a cohesive manner with other communications vehicles to acquire customers, enhance loyalty and build brands. __Credit Hours: 3 hrs _Prerequisites: IMC606

IMC 609 - Public Relations
This course explores the role of public relations as a component of an IMC plan. Brochures, newsletters, press kits, web sites, event promotions, crisis management and other vehicles will be examined as tools of building brand equity within an IMC context. __Credit Hours: 3 hrs _Prerequisites: IMC602

IMC 612 - IMC Sales Promotion
This course studies the effect of sales promotion on both consumer and business-to-business campaigns. Sales Promotion will be evaluated as a tool to not only generate traffic, but to build brands. Students will learn the role of sales promotion as an IMC vehicle. __Credit Hours: 3 hrs _Prerequisites: IMC602

IMC 615 - IMC Ethics, Regulations and Society
This course studies current ethical issues in IMC and reviews key legal principles and compliance. The course also explores the social and economic role of IMC in the global environment. __Credit Hours: 3 hrs _Prerequisites: IMC602

IMC 631 - IMC Campaigns
This course is the capstone course in the IMC graduate program. Students will coordinate skills and knowledge gained in prior courses and integrate them into a campaign aimed at maximizing brand image and brand equity for an organization. __Credit Hours: 3 hrs _Prerequisites: IMC601, IMC602, IMC603, IMC604, IMC605, IMC606, IMC607, IMC608, IMC609, IMC612 and IMC615

Information Systems

IS 219 - File Processing and COBOL Programming
COBOL programming is an important skill for business application developers. In this class, students will learn to program in COBOL while also learning the basic algorithms for producing reports with multiple control breaks and for processing sequential and random files. All students will design, write, debug and test COBOL programs using good design techniques and software engineering principles. Intended for computer information systems majors and others. __Credit Hours: 3 hrs

IS 247 - Introduction to Web Application Development
This course introduces students to the tools and techniques used for building Web-based applications. Students will gain an understanding in the fundamental workings of the Web. Students will be taught how to develop Web applications using client-side tools such as HTML and JavaScript and server-side tools such as ASP. __Credit Hours: 3 hrs

IS 320 - Business Data Communications and Computer Networks
This course discusses the technologies and applications of telecommunications and networking. Topics include telecommunications regulation and standards, network operating systems, routers, infrastructure planning and operation of organizational telecommunication networks as well as management and control of internet servers and mobile systems. __Credit Hours: 3 hrs _Prerequisites: IS215

IS 380 - Introduction to Databases
This course covers basic concepts of database design and implementation, primarily focusing on desktop database applications. This is a hands-on, practical course concentrating on use of desktop DBMS software. Topics covered include: overview of data models, introduction to SQL and QBE, practical applications of database technology. __Credit Hours: 3 hrs _Prerequisites: IS215

IS 502 - Business Information Systems
Introduction to information systems. Topics include systems concepts, systems components, the role of information systems in information systems, computer hardware and software, networks, telecommunications, electronic business, cost/value and quality of information systems, ethical and global issues related to information systems and information systems security. __Credit Hours: 3 hrs

IS 510 - Introduction to Object-Oriented Programming
In this course, you gain a solid foundation in object-oriented and component-based development, positioning you to move seamlessly into the strategic application of these technologies — including tools, languages and methodologies — to meet your business needs. __Credit Hours: 3 hrs

IS 520 - Hardware and Software
This course provides an in-depth, non-engineering introduction to the inner workings of modern computer systems to introduce students to fundamental computer hardware, systems software (operating systems and browsers), scripting languages and data concepts. __Credit Hours: 3 hrs

IS 586 - Cooperative Education in Information Systems
Employment at a business or public organization imparting a practical experience in information systems. Position may be part-time, volunteer or less than a full semester in duration. Does not count toward MSIS or MBA requirements. Admittance by
When Offered: Offered on a credit/no credit basis. 
Credit Hours: 1 hr  
Prerequisites: department permission  

IS 589 - Information Systems Internship
Directed, full-time information systems work experience in a business or public organization. Does not count toward MSIS or MBA requirements. Admittance by application only. 
Credit Hours: 3 hrs  
Prerequisites: department permission  
When Offered: Offered on a credit/no credit basis  

IS 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. 
Credit Hours: 1 hr  
Prerequisites: department permission  

IS 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. 
Credit Hours: 2 hrs  
Prerequisites: department permission  

IS 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. 
Credit Hours: 3 hrs  
Prerequisites: admission to MBA program  

IS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. 
Credit Hours: 3 hrs  
Prerequisites: department permission  

IS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. 
Credit Hours: 2 hrs  
Prerequisites: department permission  

IS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. 
Credit Hours: 1 hr  
Prerequisites: department permission  

IS 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. 
Credit Hours: 3 hrs  
Prerequisites: IS502, IS510  

IS 605 - Business Innovation and Information Technology
The pervasive use of Information Technology (IT) in business and organizations necessitates that students be exposed to innovative possibilities of IT. The course achieves its objectives by introducing students to business process re-engineering; creating new business processes, and checking for recent IT innovations that have the potential of improving business. 
Credit Hours: 3 hrs  
Prerequisites: admission to MBA program  

IS 606 - Web Application Development
This course provides students with a working knowledge of the underlying technology for building web sites and Web-based applications. The course provides students with hands-on skills required to develop web sites and Web-based business applications. Students will learn a variety of Web authoring tools and programming languages. 
Credit Hours: 3 hrs  
Prerequisites: IS510  

IS 610 - Advanced Programming
The object-oriented programming techniques of encapsulation, inheritance and polymorphism will be applied to the solution of business problems. Code reuse, incremental development and other methods will be stressed. The students will use high-level tools to develop programs with graphic user interfaces and will begin to study the problems of human/computer interaction. 
Credit Hours: 3 hrs  
Prerequisites: IS606  

IS 614 - Systems Analysis and Design
This course presents information systems development life cycle; analysis and design techniques including requirements gathering, object structure and behavior modeling, and user interface design. It utilizes enterprise architecture frameworks, service-oriented architecture, agile model-driven development. Students will work in teams on one major project. Students will use current diagramming methods and tools for the project development. 
Credit Hours: 3 hrs  
Prerequisites: IS502, IS510  

IS 616 - Management Information Systems Resources
The course is concerned with IT from the perspective of managers at all levels. It presents knowledge to managing an IT function within a larger organization. It considers strategic and operational issues, the significance of rapidly advancing technology, and human and organizational issues related to technology introduction and use. Strategic and policy issues are discussed. 
Credit Hours: 3 hrs  
Prerequisites: IS502, IS520  

IS 620 - Data Communications and Networks
This course discusses the technologies and applications of telecommunications and networking. Topics include telecommunication regulation and standards, network operating systems, infrastructure planning and operation of organizational telecommunication networks, security, as well as management and control of Internet servers and mobile systems. 
Credit Hours: 3 hrs  
Prerequisites: IS502, IS520  

IS 622 - Information Systems Consulting
Information systems consulting concepts, principles and methodologies are covered in this course. It also includes topics such as business process analyses, business process reengineering, IS project management, enterprise resources planning, IS economics, e-business strategies, information systems quality and its measurements, IS regulations,
IS 624 - Web Servers and System Software
This course focuses on the activities needed to build, install and maintain a Web server in a chosen operating system environment. UNIX commands and shell programming are covered to prepare the student to produce dynamic web pages using server-side programming. Web server security issues are also discussed. __Credit Hours: 3 hrs __Prerequisites: IS502, IS606

IS 625 - Information Systems Project Management
Information systems (IS) project management methodologies and the use of automated tools for project management. Project champions, working with user teams, training and documentation. Systems development life cycle (SDLC) and approaches to business process engineering. Project integration, scope, time, cost, quality control and risk management. Information Systems development process and product quality metrics. __Credit Hours: 3 hrs __Prerequisites: IS614

IS 626 - Business Database Applications
Explores the elementary theories and applications of database design techniques and models including relational, hierarchical and network models. Provides in-depth experience with database management implementations on managerial decision-making. __Credit Hours: 3 hrs __Prerequisites: IS502 or equivalent

IS 632 - Global Dimensions of Information Technology
Global issues of information technology development, strategies and policies are the focuses of this course. It also includes topics such as national and regional IT development strategies, trend of convergence or divergence of IT across countries, Internet technology and global IT management issues such as security, privacy, culture, risk management, outsourcing and legal constraints. __Credit Hours: 3 hrs __Prerequisites: IS502

IS 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

IS 645 - Database Management Systems
Study of the concepts, principles and techniques for managing data. Course covers techniques for the design and development of database systems including logical data modeling, physical data modeling, data retrieval and manipulation, concurrent processing, data distribution and database administration. The course provides students with hands-on skills on using the database package. __Credit Hours: 3 hrs __Prerequisites: IS614

IS 650 - Enterprise Resource Planning
This course facilitates students to understand how to use an enterprise resource planning (ERP) system in an organization. Students learn how to configure a large system to support an enterprise with multiple functions and divisions. Current trends and decision-making issues are addressed through a cross-functional view of ERP. __Credit Hours: 3 hrs __Prerequisites: IS502

IS 655 - Decision Support Systems
This course provides students with a working knowledge of the concepts, techniques and tools to build effective data warehousing and data mining systems. Students will learn how to leverage data warehousing and data mining to establish a competitive advantage and solve business problems faster by using online analytical processing systems. __Credit Hours: 3 hrs __Prerequisites: IS606

IS 660 - E-Business Application Development
This course describes the fundamental knowledge of e-business and e-commerce. This course discusses advanced issues and programming techniques for developing e-business applications. Topics include e-business models, strategies, security and integration methods. The course provides students with hands-on skills and programming tools required to build e-business applications. __Credit Hours: 3 hrs __Prerequisites: IS606

IS 665 - Data Warehousing and Data Mining
This course provides students with a working knowledge of the concepts, techniques and tools to build effective data warehousing and data mining systems. Students will learn how to leverage data warehousing and data mining to establish a competitive advantage and solve business problems faster by using online analytical processing systems. __Credit Hours: 3 hrs __Prerequisites: IS645

IS 670 - XML Technologies
Extensible markup language (XML) is a technology that enables data communication between non-compatible systems. It provides advanced capability for developing business-to-business Internet solutions. The course covers XML features and abilities and explains XML’s strategic importance for developing Web-based applications. The course offers substantial hands-on experience in using and understanding the workings of XML. __Credit Hours: 3 hrs __Prerequisites: IS606

IS 679 - Special Topics
This course will be offered periodically to review selected contemporary topics in quantitative analysis, business computer systems and/or managerial and business economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: completion of MBA or M.S.I.S. core
IS 680 - Special Topics
This course will be offered periodically to review selected contemporary topics in quantitative analysis, business computer systems and/or managerial and business economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: completion of MBA or M.S.I.S. core

IS 681 - Special Topics
This course will be offered periodically to review selected contemporary topics in quantitative analysis, business computer systems and/or managerial and business economics. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: completion of MBA or M.S.I.S. core

IS 690 - Master’s Thesis in Information Systems
Students will prepare a proposal for original research in information systems and complete the proposed work under the guidance of the thesis supervisor and committee approved by the department. The completed work is to be submitted as a written thesis and defended before the thesis committee. __Credit Hours: 3 hrs __Prerequisites: IS606, IS625, IS645, IS620

IS 695 - Seminar
This capstone course integrates management information systems (M.S.I.S.) with fundamental areas of business. The impact of M.S.I.S. in the organization is analyzed in terms of current design and implementation techniques and follow-up evaluation of business systems. The student writes an original research paper in the area of management information systems. __Credit Hours: 3 hrs __Prerequisites: all M.S.I.S. required and restricted elective courses must be completed prior to this course

IS 696 - Enterprise Information Systems Integration
This course introduces concepts, technologies, and methodologies used for enterprise information systems integration. Current models of enterprise architecture, integration patterns, enabling technologies for middleware, system management and integration standards will be reviewed. Students will also learn how to build components, as they are required for the integration of a system. Integration of packaged applications and legacy systems will be discussed as well. Students will gain hands-on experience on using a variety of integration tools. Students will be required to apply what they lean in the course in a real-life project __Credit Hours: 3 hrs __Prerequisites: IS606, IS620, IS625 and IS645

IS 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

IS 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

IS 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

Japanese

JPNE 494 - Seminar in Japanese Studies
Required of students majoring in teaching Japanese language and culture. Extensive study and discussion of issues related to Japanese society and to language structures. Students are required to apply Japanese language skills in research, presentations and papers. __Credit Hours: 3 hrs __Prerequisites: JPNE446 or department permission __Notes: This is an undergraduate course available for graduate credit.

JPNE 544 - Graduate Japanese Conversation
A continuation of advanced conversation with emphasis on attaining advanced communicative skills pertinent to professional and cultural needs. __Credit Hours: 3 hrs __Prerequisites: JPNE444 or department permission

JPNE 546 - Japanese for Business Practices I
These courses teach the correct usage of Japanese economic and financial vocabulary and train the students in reading, writing and translating Japanese business communications. __Credit Hours: 3 hrs __Prerequisites: JPNE446 or department permission

JPNE 547 - Japanese for Business Practices II
This course teaches the correct usage of Japanese economic and financial vocabulary and trains the students in reading, writing and translating Japanese business communications. This course is a continuation of JPNE546. __Credit Hours: 3 hrs __Prerequisites: JPNE546 or department permission
JPNE 590 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

JPNE 591 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

JPNE 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

JPNE 593 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education and industry. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: graduate standing or department permission

JPNE 594 - Intensive Seminar in Japanese Studies
Different topics are selected each semester for intensive study by advanced students. The course consists of review and discussion of contemporary issues in Japanese language and culture, based on research projects and review of the pertinent literature carried out by the student. Emphasis in seminar meetings on exchange of ideas and information developed in the research. __Credit Hours: 3 hrs _Prerequisites: JPNE544 or department permission

JPNE 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

JPNE 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

JPNE 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

JPNE 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

Journalism

JRNL 408 - Case Studies in Public Relations
Solving problems and managing controversy in the day-to-day pursuit of public relations; legal considerations; crisis communication; professionalism and public responsibility in public relations. __Credit Hours: 3 hrs _Prerequisites: JRNL314 _Notes: This is an undergraduate course available for graduate credit.

JRNL 423 - Magazine Article Writing
A writing course to develop skills in researching, writing and marketing nonfiction articles longer and more complex than newspaper feature stories. Emphasis is on individual completion of articles of professional quality. __Credit Hours: 2 hrs _Prerequisites: ENGL328 or JRNL306 _Notes: This is an undergraduate course available for graduate credit.

JRNL 453 - Advanced Reporting
Researching and writing news stories dealing with complex topics including courts, politics, government, finance, labor and education. Emphasis is on journalistic initiative and investigative reporting. __Credit Hours: 3 hrs _Prerequisites: JRNL215 _Notes: This is an undergraduate course available for graduate credit.

JRNL 454 - Contemporary Problems in Journalism
Emphasis on student investigation, reporting and writing on selected ethical problems in the media industry, such as conflicts between advertising and editorial content and actual or perceived conflicts of interest between journalists and people they cover. Emphasis on conducting in-depth studies of major social issues and quality of media coverage. __Credit Hours: 3 hrs _Prerequisites: junior standing _Notes: This is an undergraduate course available for graduate credit.

JRNL 455 - Journalism and the Law
An advanced professional course exploring issues of defamation of character, invasion of privacy, copyright, conflicts between the press and the courts, hate speech, obscenity, access to restricted government records, broadcast regulations and various forms of censorship. __Credit Hours: 3 hrs _Prerequisites: senior standing _Notes: This is an undergraduate course available for graduate credit.

Law

LAW 293 - Legal Environment of Business
The judicial system and legal procedure, crimes and torts, contractual arrangements, sales of goods and other transactions under the Uniform Commercial Code. __Credit
LAW 503 - Law, Enterprise and Ethics
This course covers topics in business law, ethics and the law of enterprises. Material includes the substantive law of contracts and torts, agency and enterprise formation, including limited liability companies, corporations and securities laws. Business ethics are taught from a legal perspective. __Credit Hours: 3 hrs

LAW 511 - Sports Law
An in-depth study and case analysis of the law and legal issues associated with sports, sporting events, physical education and the recreation industry. Topics include: international sports and recreation law, the National Collegiate Athletic Association, dispute resolution (mediation, negotiation, arbitration), negligence, property/premises law, torts and criminal law, risk management, contract law and drafting, constitutional law, equal employment opportunity law, anti-trust law, player agents, issues in women’s sports. __Credit Hours: 3 hrs

LAW 525 - E-Commerce Law
The Internet has created a new set of legal problems that pose immense challenges for business. This course covers a range of e-commerce legal issues including privacy issues, data protection, intellectual property, e-commerce contracts, cyber torts, e-commerce dispute resolution and online marketing. __Credit Hours: 3 hrs

LAW 540 - Employment Law
The course will focus on the law applicable to employment. Subject topics and laws covered will include: employment at-will, wrongful discharge, equal employment opportunity (Title VIII of the Civil Rights Act, 42 U.S. 1981, ADEA, Equal Pay Act, Elliott-Larsen, Family Medical Leave Act, American Disabilities Act, Michigan Handicapper’s Act, Executive Order 11246) health and safety (OSHA, workers’ compensation), compensation (ERISA, FLSA), unemployment compensation, personnel records, lie-detector tests, whistle-blower's protection, labor law (National Labor Relations Act, as amended, etc.), the employment litigation process. __Credit Hours: 3 hrs

LAW 550 - International Business Law
This course will focus on the international business law to enable business managers to analyze legal issues and manage risks relevant to the international business transactions. Topics covered will include prevalent legal systems, applicable business laws in specific geographic areas such as the European Union and a legal analysis of various types of international business transaction such as sales contracts, licensing, direct and indirect foreign investment, etc. Topics included are laws relative to: 1) trade including imports, customs, tariff regulation, World Trade Organization and NAFTA; 2) advertising, patent, business formation, currency risk, anti-trust employment; 3) international ethics; 4) international contracts. __Credit Hours: 3 hrs

LAW 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

LAW 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LAW 595 - Seminar in Business Law
A study of selected business law issues and topics that may vary from semester to semester. __Credit Hours: 3 hrs

LAW 597 - Independent Study
Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

LAW 598 - Independent Study
Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

LAW 599 - Independent Study
Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

LAW 603 - Legal Environment of Nonprofit Organizations
Study of the laws and regulations that govern board members and managers of nonprofit, nongovernmental entities; such as, federal tax
laws, state regulations, fiduciary responsibilities, legal liability, ethical issues and conflict resolution. __Credit Hours: 3 hrs

**LAW 615 - Law for Financial Professionals**

A study of basic legal and ethical issues relative to finance law including contracts, business forms (sole proprietorships, partnerships, limited liability companies, franchises, corporations), securities offerings and investor protection (security laws including Sarbanes-Oxley), corporate governance, accounting and auditing regulation, banking, negotiable instruments and checks, creditor’s rights, bankruptcy, agency, insurance and special topics such as liability of accountants. __Credit Hours: 3 hrs

**LAW 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

**LAW 679 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: LAW503

**LAW 680 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: LAW503

**LAW 681 - Special Topics**

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: LAW503

**LAW 697 - Independent Study**

Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

**LAW 698 - Independent Study**

Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

**LAW 699 - Independent Study**

Students select a problem or group of problems to be researched or studied in depth under the direction of a designated faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

**Legal Administration**

**LEGL 500 - Roles of the Legal Administrator**

Examination of the organizational structure of the law office and courts. Emphasis on the role of a non-lawyer in achieving effective performance. Overview of systems and methods in legal settings and ethical guidelines. __Credit Hours: 3 hrs

**LEGL 501 - Technology in the Legal Enterprise**

Examine technology’s affect on the practice of law. Evaluate computer applications directed toward both legal administration and the delivery of legal services. Explore the technology linking the law office to the world. __Credit Hours: 3 hrs

**LEGL 502 - Designing Solutions for Problems in Legal Administration**

Examination and solving of problems by the legal administrator. Topics include client files systems, cash and account management, payroll and tax reports, developing budgets, design of positions, motivation of support personnel and marketing of legal services. __Credit Hours: 3 hrs

**LEGL 503 - Judicial Administration**

Seminar course to study responsibilities and problems of the judicial administrator. Court security will be addressed, as will the court reorganization in Michigan and new advances in technology. __Credit Hours: 3 hrs

**LEGL 504 - Internship**

Placement for intern will be arranged in a law office or court system to gain practical hands-on experience. Intern will complete all phases of a project and present a capstone research paper. __Credit Hours: 4 hrs _Prerequisites: LEGL500, LEGL501, LEGL502 and LEGL503

**LEGL 590 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of legal administration. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

**LEGL 591 - Special Topics**

Provides for intensive study of selected topics drawn from current developments in the total field of legal administration. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission
LEGL 592 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of legal administration. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

LEGL 597 - Independent Study
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. __Credit Hours: 1 hr _Prerequisites: Department permission

LEGL 598 - Independent Study
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. __Credit Hours: 2 hrs _Prerequisites: Department permission

LEGL 599 - Independent Study
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. __Credit Hours: 3 hrs _Prerequisites: Department permission

LEGL 639 - Continuous Enrollment
Graduate students who are completing research (Master’s or Specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

LEGL 679 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

LEGL 680 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

LEGL 681 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 682 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 683 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 684 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 685 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 686 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 687 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 688 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 689 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 690 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 691 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 692 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 693 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 694 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 695 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 696 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

LEGL 697 - Independent Study
An intensive study of a problem or a group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: Department permission

LEGL 698 - Independent Study
An intensive study of a problem or a group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: Department permission

LEGL 699 - Independent Study
An intensive study of a problem or a group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: Department permission

LING 401 - Introduction to Linguistic Science
An introduction to linguistic theory and analytical procedures. Students will apply theoretical principles to problems of phonological and syntactic analysis. __Credit Hours: 3 hrs _Prerequisites: LING201 or LNGE223 _Notes: This is an undergraduate course available for graduate credit.

LING 402 - Modern English Grammar
An introduction to the grammar of modern English: problems in the description and analysis of English grammar. __Credit Hours: 3 hrs _Prerequisites: junior standing _Notes: This is an undergraduate course available for graduate credit.

LING 415 - Women and Language
This course analyzes the way that gender is reflected in language structure and linguistic behavior, in both English and other languages. It will consider such topics as gender-related vocabulary and morphology, gender differences in discourse styles and the question of whether gender-related language differences have neurological correlates or are exclusively social in origin. __Credit Hours: 3 hrs _Prerequisites: a 200-, 300- or 400-level LING course _Notes: This is an undergraduate course available for graduate credit.

LING 420 - Introduction to Phonetics and Phonology
An introduction to articulatory and acoustic phonetics and to the basic principles and methodology of phonological analysis. __Credit Hours: 3 hrs _Prerequisites: LING401 _Notes: This is an undergraduate course available for graduate credit.

LING 421 - The History of the English Language
A study of the development of the language from its earliest stages to the present with attention to social influences as well as matters of sound, word formation and sentence structure. __Credit Hours: 3 hrs _Prerequisites: LING201 or LING401 _Notes: This is an undergraduate course available for graduate credit.

LING 425 - Introduction to Syntax
The development of a base in syntactic theory, learning both the mechanisms of a transformational grammar and the argumentation used in syntactic analysis.
**LING 426 - Topics in Linguistics**
Advanced study in specific areas of linguistics for which the department does not regularly offer a course. The area to be studied will vary and will be determined by the field of specialization of the staff members and by student interest. This course may be taken more than once, provided the topics are different. _Credit Hours: 3 hrs _Prerequisites: a 200-, 300- or 400-level LING course _Notes: This is an undergraduate course available for graduate credit.

**LING 434 - The Linguistic Analysis of Literature**
Examination of the linguistic knowledge which allows readers to recognize certain literary effects. Consideration of point of view shift, foregrounding, narrative time movement, presupposition and other aspects of literary interpretation. _Credit Hours: 3 hrs _Prerequisites: a 200-, 300- or 400-level LING course _Notes: This is an undergraduate course available for graduate credit.

**LING 501 - Current Trends in Linguistics**
A study of current trends in linguistic research as they bear on any number of practical and educational problems: reading, writing, language and public policy, language and professions, etc. _Credit Hours: 3 hrs

**LING 502 - History of Linguistics**
Grammatical analysis from Plato to Chomsky; the influence of various linguistic theories and analytical methods on the development of contemporary language models and the teaching of grammar. _Credit Hours: 3 hrs

**LING 506 - Introduction to Old English**
An introduction to Old English language, and the reading of representative selections of prose and poetry in the original Old English. _Credit Hours: 3 hrs _Prerequisites: LING401 _Notes: This is an undergraduate course available for graduate credit.

**LING 510 - Historical and Comparative Linguistics**
Introduction to comparative historical linguistics with special reference to the development of English from Germanic and Indo-European backgrounds. _Credit Hours: 3 hrs

**LING 519 - Technology for Language Documentation**
Trains students in the technical aspects of collecting, archiving and processing language materials following best-practice guidelines. Topics to be covered include the collection of audiovisual language materials; materials processing for archiving, analysis and display; and materials annotation using existing tools. This class also serves as an introduction to basic scripting with Perl or Python. _Credit Hours: 3 hrs _Prerequisites: LING401 or department permission

**LING 525 - Syntactic Analysis**
Development of tools for advanced syntactic analysis in English and other languages. Traditional and current approaches to the study of syntax including government and binding theory, and phrase structure grammar. _Credit Hours: 3 hrs

**LING 531 - Semantics: The Study of Meaning**
A brief study of the historical background of modern semantic analysis of English utterances. Traditional and generative approaches to semantic concepts will be examined. _Credit Hours: 3 hrs

**LING 532 - Sociolinguistics**
An analysis of the diversity in language caused by social factors, and the correlative influence of these linguistic differences upon society and social status. _Credit Hours: 3 hrs

**LING 533 - General Psycholinguistics**
An introduction to psycholinguistics, the mental representation of a grammar, perception of language units, aphasia and other language abnormalities, first and second language acquisition, bilingualism, language and thought. Not open to students in speech-language pathology program. _Credit Hours: 3 hrs

**LING 534 - Phonological Analysis**
Advanced theories in current phonology are presented and argued for, and contrasted with previous theories. Students do weekly analyses and submit an original final paper suitable for presentation at a conference. _Credit Hours: 3 hrs

**LING 535 - Discourse Analysis**
Study of discourse structure and conversational interaction from several analytical perspectives, e.g., interactional sociolinguistics, pragmatics and ethnolinguistics. Identification of the structural cues and interpretive conventions that make discourse meaningful within a speech community. Topics may include: cross-cultural communication, gender and discourse, personal narrative, speech acts and presupposition. _Credit Hours: 3 hrs _Prerequisites: one course in LING at the 500 level

**LING 536 - Typology and Universals of Language**
Seminar on description and explanation of structural patterns found recurrently across languages. Explores characteristics of the world’s language families and areas. Special attention to processes of linguistic change. _Credit Hours: 3 hrs

**LING 538 - Multilingual Text Processing**
An empirical and computational analysis of the requirements of computing in a global and multilingual environment. Covers the world’s writing systems, from scripts such as Tibetan and Arabic to systems devised by and for linguists, such as the International Phonetic Alphabet; technologies, algorithms and programming interfaces commonly used for multilingual text processing, including the Unicode Standard; and multilingual aspects
of voice- and video-based applications. _Credit Hours: 3 hrs _Prerequisites: LING519 or department permission

LING 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 597 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

LING 598 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

LING 599 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

LING 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. _Credit Hours: 1 hr _Prerequisites: department permission

LING 679 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 680 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 681 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

LING 682 - Thesis
Original research or critical study designed and completed by the student under the guidance of the thesis director and committee. _Credit Hours: 3 hrs _Prerequisites: department permission

LING 697 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

LING 698 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

LING 699 - Independent Study
An intensive study of a problem or research area not covered in regular courses; under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

Language

LNGE 425 - Second Language Acquisition
Students examine the nature of learning a second language simultaneously with, or subsequent to, one’s first language. Linguistic, cognitive, affective, cultural and social factors influencing the acquisition of another language are explored. Focus includes various age and English ability levels. _Credit Hours: 3 hrs _Prerequisites: LNGE223 and LNGE202 _Notes: This is an undergraduate course available for graduate credit.

Mathematics

MATH 118 - Linear Models and Probability
Linear models, systems of linear equations, linear regression, probability theory, probabilistic simulations, decision theory,
MATH 104 - Determinants, Systems of Linear Equations
Prerequisites: Placement or at least C in MATH 098 or MATH 098B or MATH 104, MATH 105, MATH 107, MATH 109 or MATH 120

MATH 122 - Elementary Linear Algebra
Vectors and matrices, operations on matrices, determinants, systems of linear equations, linear independence, linear transformations, applications. Prerequisites: MATH 105 with a minimum grade of C or MATH 120 with a minimum grade of D- or MATH 112 or placement

MATH 360 - Statistical Methods
A comprehensive overview of statistical methods and analysis with applications. Topics include descriptive statistics, probability theory, random variables and probability distributions, sampling distributions, estimation and testing hypotheses, correlation and regression, analysis. Prerequisites: MATH 120

MATH 400 - History and Development of Mathematics
The course presents topics in the evolution of mathematics — the historical development of algebra, geometry and calculus provides the major focus. Problems will be assigned that reflect the content and methods of this development. Prerequisites: MATH 121/122 Notes: This is an undergraduate course available for graduate credit.

MATH 411 - Abstract Algebra
An introduction to the theory and concepts of abstract algebra. Topics from group theory: subgroups, cosets, Lagrange’s Theorem, homomorphisms. Also selected topics from ring theory and field theory. Prerequisites: MATH 211

MATH 500 - Modern Mathematics
Content, K-6
The modern mathematics required for teaching this subject in the elementary grades (K-6); set theory, logic, numeration systems, the real number system and geometry. Not applicable to M.A. in mathematics program. Prerequisites: MATH 120

MATH 504 - Mathematics and Statistics
for MBAs
An elementary course emphasizing an understanding of differential calculus and its use in optimization, and an understanding of basic probability and statistics. Open to MBA students only. Not applicable to M.A. in mathematics program. Prerequisites: MATH 120

MATH 506 - Introduction to Mathematical Logic
Propositional and first-order predicate calculi and rules of deduction; application in mathematical systems and proofs. Experience in writing proofs is assumed. Prerequisites: MATH 121/122

MATH 507 - Theory of Numbers
Divisibility theory of integers, primes, theory of congruencies, Fermat’s Theorem, Wilson’s Theorem, number theoretic functions, multiplicity, Mobius inversion formula, Euler’s phi function, quadratic reciprocity. Completion of a course in abstract algebra is assumed. Prerequisites: MATH 121

MATH 508 - Foundations of Mathematics
An introduction of axiomatic method, axiomatic set theory, transfinite arithmetic and logical paradoxes; and their influence on modern conceptions of mathematics. Experience in writing proofs is assumed. Prerequisites: MATH 121

MATH 511 - Linear Algebra
Theory of a single linear transformation, canonical forms, inner product spaces. Completion of introductory courses in abstract algebra and linear algebra is assumed. Prerequisites: MATH 121

MATH 515 - Discrete Mathematics with Applications
Elementary combinatorics, recurrence relations and generating functions, graphs, trees, network flows, Boolean algebras and applications. Experience with proofs is assumed. Knowledge of linear algebra or an undergraduate discrete mathematics course is recommended. Prerequisites: MATH 121

MATH 518 - Theory of Groups
An introduction of axiomatic method, axiomatic set theory, transfinite arithmetic and logical paradoxes; and their influence on modern conceptions of mathematics. Experience in writing proofs is assumed. Prerequisites: MATH 121

MATH 522 - Fourier Analysis
An introduction to Fourier series and their application to the solution of boundary value problems in the partial differential equations of physics and engineering. Completion of courses in real analysis and differential equations is assumed. Prerequisites: MATH 121

MATH 524 - Complex Analysis
Complex numbers, analytic functions, elementary complex functions and mappings,
Cauchy’s Theorem and Cauchy’s integral formula, maximum modulus principle, power series and calculus of residues and further topics. Completion of a course in real analysis is assumed. __Credit Hours: 3 hrs

MATH 526 - Real Analysis
A rigorous development of calculus: differentiation and integration including detailed proofs of the mean value theorems, Taylor’s Theorem and the Fundamental Theorem of Calculus, culminating in a brief introduction to an advanced topic such as Fourier series or Lebesgue integration. Completion of an introductory course in real analysis is assumed. __Credit Hours: 3 hrs

MATH 535 - Chaotic Dynamical Systems
Theoretical and numerical aspects of systems of differential equations specific to finding qualitative information about sensitivity to initial conditions and long-term behavior of solutions related to chaos. Completion of a course in real analysis or linear algebra is assumed. __Credit Hours: 3 hrs

MATH 536 - Numerical Analysis
Introduction to numerical computation, numerical linear algebra, solution of nonlinear equations, interpolation and approximation, numerical integration and differentiation and numerical solution of ordinary differential equations. Knowledge of calculus, linear algebra and computer programming is assumed. __Credit Hours: 3 hrs

MATH 546 - Graph Theory
A study of undirected and directed graphs and their structural properties including connectivity and traversibility; associated matrices, groups and relations, and applications to networks. Experience in writing proofs is assumed. __Credit Hours: 2 hrs

MATH 548 - Introduction to Differential Geometry
Fundamental concepts of the theory of curves and surfaces in three-dimensional space; applications. Not open to students with credit in MATH448 Differential Geometry With An Introduction to General Relativity. Completion of courses in linear algebra and multivariable calculus is assumed. __Credit Hours: 3 hrs

MATH 550 - General Topology
General theory of topological spaces, metric spaces, continuity, product and quotient spaces, separation axioms, compactness and connectedness. Completion of a course in real analysis is assumed. __Credit Hours: 3 hrs

MATH 560 - Introduction to Optimization Theory
An introduction to various aspects of optimization theory, including linear and nonlinear programming, primal dual methods, calculus of variations, optimal control theory, sensitivity analysis and numerical methods. Completion of courses in linear algebra and multivariable calculus is assumed. __Credit Hours: 3 hrs

MATH 566 - Modeling in Bioinformatics
Coverage of modeling process in restriction mapping, map assembly, DNA arrays and genome rearrangements. Also covers hidden Markov models and data mining models. Completion of a course in calculus and a course in statistics as well as some knowledge of computer programming is assumed. __Credit Hours: 3 hrs

MATH 570 - Statistical Concepts and Methods for Bioinformatics
Statistical techniques for analyzing biological data; probability and statistical estimation theory; sampling theory; stochastic models for biological processes; multiple linear regression; logistic regression; applied multivariate analysis including discriminant functions, factor analysis, principal components, cluster analysis. Applications and computer-based data analysis are stressed. Knowledge of calculus and statistics is assumed. __Credit Hours: 3 hrs

MATH 571 - Mathematical Statistics I: Probability Theory
Set theory, Borel sets, Sigma field of events, probability measures on a sigma field, axioms, finite and countable spaces, random variables and distributions, functions of random vectors, derived distributions, generating and characteristic functions, limit theorems, modes of convergence, law of large numbers. Completion of courses in real analysis and calculus-based probability and statistics is assumed. __Credit Hours: 3 hrs

MATH 572 - Design and Analysis of Experiments
Principles of experimental design and analysis: randomized blocks and Latin Squares, nested or hierarchical designs, experimental and sampling errors, fixed and random effects models, components of variance, expected mean squares, factorial and fractional designs. Not open to students who have credit in MATH462. Completion of courses in linear algebra and calculus-based probability and statistics is assumed. __Credit Hours: 3 hrs

MATH 573 - Statistical Data Analysis
Data analysis using statistical packages such as SAS and MINITAB. Analysis of variance; multivariate regression; stepwise regression; analysis of categorical data, including nonparametric tests, goodness-of-fit tests and tests for normality. Emphasis is on application and understanding of the basic assumptions in testing data. Completion of a calculus-based probability and statistics course is assumed. __Credit Hours: 2 hrs

MATH 574 - Applied Statistics
An empirical approach to statistics: generate samples and model distributions; tests of fit to specified distributions; tests of
MATH 575 - Linear Regression Analysis
Modeling a response as a sample or multiple regression model, validity of assumptions, using models for estimation and prediction, multicolinearity, auto-correlation of error terms, residual analysis, influence diagnostics, stepwise regression. Not open to students who have credit in MATH461. Completion of a calculus-based probability and statistics course is assumed. __Credit Hours: 3 hrs

MATH 576 - Applied Survey Sampling
Theory and applications of sampling: selection of samples; sampling designs; estimation of means and variances; ratio; regression and difference methods; simple, systematic, cluster and stratified random sampling; probability-proportional-to-size sampling. Not open to students who have credit in MATH460. Completion of a calculus-based probability and statistics course is assumed. __Credit Hours: 3 hrs

MATH 577 - Applied Multivariate Statistics
Techniques for analyzing multidimensional data, including multivariate analysis of variance, principle component, discriminant analysis and canonical correlation. Completion of courses in linear algebra and calculus-based probability and statistics is assumed. __Credit Hours: 3 hrs

MATH 578 - Nonparametric Statistics
Selected distribution-free tests; Wilcoxon signed rank; Mann-Whitney tests; Kolmogorov-Smirnov, Chi-square and rank correlation tests; Kruskal-Wallis; Friedman correlation and regression. Completion of a calculus-based probability and statistics course is assumed. __Credit Hours: 3 hrs

MATH 579 - Modern Mathematics for Teachers
Introduces materials and activities that relate mathematics to culture, ethnicity and gender. __Credit Hours: 2 hrs

MATH 580 - Mathematical Connections
The National Council of Teachers of Mathematics recommends an increased use of real-world applications in the secondary school mathematics curriculum. This course provides secondary mathematics teachers with real-world connections to topics found in grades 7-12 such as arithmetic, algebra, geometry, trigonometry, probability and statistics, and calculus. __Credit Hours: 2 hrs

MATH 581 - Modern Mathematics, Methods and Content
Elective techniques in presenting materials, planning class activities and creating good learning situations; current problems in a modern mathematics curriculum for grades K-6. Not applicable to M.A. in mathematics program. __Credit Hours: 2 hrs

MATH 582 - Technology for Mathematics Educators
An in-depth look at how technology can be used to enhance the curriculum in the K-12 mathematics classroom. No microcomputer experience assumed. Intended for educators. __Credit Hours: 2 hrs

MATH 583 - Problem Solving
Problem-solving skills and strategies will be presented. The course will emphasize what it means to think mathematically and to investigate literature relevant to understanding mathematical thinking and problem solving. __Credit Hours: 2 hrs

MATH 584 - Middle School Mathematics, Methods and Content
Middle school mathematical content, and contemporary ways of using materials and strategies to present the content. Topics include algebra, geometry, probability and statistics, number theory, logic and other general mathematics notions. __Credit Hours: 3 hrs

MATH 585 - Multicultural Perspectives in Mathematics for Teachers
Multicultural mathematics topics for teachers, designed to increase teachers' knowledge of the formal and informal mathematics developed by diverse people around the world, both now and in the past. Introduces materials and activities that relate mathematics to culture, ethnicity and gender. __Credit Hours: 2 hrs

MATH 586 - Multicultural Perspectives in Mathematics
The National Council of Teachers of Mathematics recommends an increased use of real-world applications in the secondary school mathematics curriculum. This course provides secondary mathematics teachers with real-world connections to topics found in grades 7-12 such as arithmetic, algebra, geometry, trigonometry, probability and statistics, and calculus. __Credit Hours: 2 hrs

MATH 587 - Enriching Instruction in High School Mathematics
New teaching aids and supplementary reading materials; subject matter usually not developed in standard texts (e.g., linear programming, principles of computers and advanced geometric constructions); topics for accelerated high school classes. __Credit Hours: 2 hrs

MATH 588 - High School Mathematics, Methods and Content
Presents information and materials to broaden and deepen a secondary teacher’s background in teaching mathematics. Topics include general mathematics, algebra, geometry, trigonometry and senior mathematics. Applications, strategies of presentation and teaching aids are discussed. __Credit Hours: 3 hrs

MATH 589 - Geometry for Secondary Teachers
Presents information and materials to broaden and deepen a secondary teacher’s background in teaching geometry. Foundations of geometry, modern geometry, non-Euclidean geometries and a little topology are studied. __Credit Hours: 2 hrs

MATH 590 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MATH 591 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the
MATH 592 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

Prerequisites: department permission

MATH 597 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 1 hr __Prerequisites: department permission

MATH 598 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 599 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 1 hr __Prerequisites: department permission

MATH 601 - Teaching Junior College Mathematics
Current problems in a junior college mathematics program. The role of algebra and trigonometry, elementary functions, analytic geometry, the calculus and linear algebra; content and techniques of instruction; CUPM recommendations for a college program. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

MATH 671 - Mathematical Statistics II: Statistical Inference
Distributions, exact sampling distributions, properties of estimators, MLE, BLUE, Bayes and Min-Max estimation, Rao-Blackwell Theorems, completeness, minimal sufficiency, optimal tests, Neyman-Pearson Lemma, likelihood ratio tests, chi-square tests. Completion of a course in linear algebra is assumed. __Credit Hours: 3 hrs __Prerequisites: MATH571

MATH 679 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MATH 680 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MATH 681 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MATH 687 - Cooperative Education in Mathematics
Practical experience in an industrial setting, consisting of a supervised placement involving extensive use of mathematics. The student will be required to submit a plan outlining the academic benefits; and a summary of the experience upon conclusion. __Credit Hours: 3 hrs __Prerequisites: department permission

MATH 690 - Research Study
Research in areas of mathematics or mathematics education under guided direction. Thesis or final paper dependent upon program option is required at the conclusion of the research work. __Credit Hours: 1 hr __Prerequisites: department permission

MATH 691 - Research Study
Research in areas of mathematics or mathematics education under guided direction. Thesis or final paper dependent upon program option is required at the conclusion of the research work. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 692 - Research Study
Research in areas of mathematics or mathematics education under guided direction. Thesis or final paper dependent upon program option is required at the conclusion of the research work. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 693 - Research Study
Research in areas of mathematics or mathematics education under guided direction. Thesis or final paper dependent upon program option is required at the conclusion of the research work. __Credit Hours: 3 hrs __Prerequisites: department permission

MATH 694 - Research Study
Research in areas of mathematics or mathematics education under guided direction. Thesis or final paper dependent upon program option is required at the conclusion of the research work. __Credit Hours: 4 hrs __Prerequisites: department permission

MATH 695 - Workshop in Mathematics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Students will be provided practical and theoretical study in a selected topic area. Usually not applicable to M.A. in mathematics program. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 696 - Workshop in Mathematics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Students will be provided practical and theoretical study in a selected topic area. Usually not applicable to M.A. in mathematics program. __Credit Hours: 3 hrs __Prerequisites: department permission

MATH 697 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 1 hr __Prerequisites: department permission

MATH 698 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 2 hrs __Prerequisites: department permission

MATH 699 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 3 hrs __Prerequisites: department permission

MATH 790 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MATH 791 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MATH 792 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MATH 793 - Special Topics
A graduate-level course in a specific area of mathematics, to be determined by the field of specialization of the instructor and the interest of the students. Completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above strongly recommended. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs
MATH 697 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 1 hr __Prerequisites: completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above, and department permission.

MATH 698 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 2 hrs __Prerequisites: completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above, and department permission.

MATH 699 - Independent Study
A report on an approved subject in the field of mathematics, the history of mathematics or the teaching of mathematics, under the guidance of a faculty member of the Mathematics Department. __Credit Hours: 3 hrs __Prerequisites: completion of a minimum of 10 graduate hours in mathematics, and a graduate GPA in mathematics of 3.3 or above, and department permission.

Manufacturing

MFG 591 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MFG 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 3 hrs __Prerequisites: department permission

MGMT 501 - Management: Concepts, Principles and Practice
The basic managerial functions are studied primarily from the perspective of the process design, but the behavioral, management science and other disciplinary schools of thought are also carefully examined. Open only to graduate students who have not had a basic management course. Not available to College of Business graduates. __Credit Hours: 3 hrs

MGMT 505 - Organizational Theory and Behavior and Business Communication
This course provides a survey of relevant social science research and literature to provide the student with basic knowledge of organizational behavior and communication theory and concepts, as well as the application of these. Cases and exercises are used to relate theory to applications, and practice assignments are given. __Credit Hours: 3 hrs

MGMT 509 - Strategic Human Resource Management
Current activities and theory relevant to human resource management function are described, including impact of changes related to government intervention and other environmental impacts. __Credit Hours: 3 hrs

MGMT 513 - Business Communications Seminar
Business communication seminar focuses on strategies for professionals who must inform and influence others in the workplace through oral and written business communication. The course will prepare students to write progress reports, executive summaries and brief business reports as well as to deliver technical briefings and project presentations. __Credit Hours: 1 hr

MGMT 530 - E-Commerce Essentials
This course provides an overview of e-business. It explores managerial issues related to economics, marketing and logistics of business transactions in the networked economy. Topics include information technology, value creation and delivery, supply-chain management, electronic financial markets, digital storefronts, digital payments and the ethical/legal issues involving electronic commerce that are highlighted in case studies. __Credit Hours: 3 hrs

MGMT 550 - International Management: A Cultural Perspective
This course will examine management practices within the international business environment, both from individual national perspectives and from the global perspective of the multinational corporation. __Credit Hours: 3 hrs

MGMT 567 - Business Communication:
Specialized Organizational Report Writing
Course to train students (already admitted to a graduate degree program) to write reports suited to organizational needs and environments. Provides professional and managerial focus on designing reports for business, industry, education, health care and government. Develops skills in design, editing and analysis of reports. __Credit Hours: 3 hrs

MGMT 570 - New Venture Creation
This course develops students’ abilities to formulate a business plan for new ventures. Using a specific idea, students examine opportunity, market options, entry modes, financial projections and overall strategy for a new venture. The emphasis is on developing the ability of students to start a new profit or non-profit venture. __Credit Hours: 3 hrs

MGMT 576 - Corporate Social Policy
A study of interaction between business organizations and their economic, political, social and legal environments. Ethical issues relevant to corporate decision-making will be the focus of the analysis of social policy. __Credit Hours: 3 hrs

MGMT 590 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MGMT 591 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MGMT 592 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MGMT 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr
_Prerequisites: department permission

MGMT 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs
_Prerequisites: department permission

MGMT 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs
_Prerequisites: department permission

MGMT 600 - Management Skills
Provides a practical approach to self-management and the management of others using such tools as self-assessment, career planning, interviewing, teamwork and project management. Also develops competencies in leadership, written and oral business communication and problem solving. May include role plays, exercises, oral and written presentations, and personal and team projects. __Credit Hours: 3 hrs

MGMT 602 - Theory and Techniques of Organizational Development
This class examines the theoretical basis of the field of organizational development. Change interventions at the individual, group and organizational level are covered along with consultation skills. __Credit Hours: 3 hrs

MGMT 603 - Corporate Entrepreneurship: Innovation and Technology Commercialization
Students will develop an awareness of the range, scope and complexity of issues involved in creating and growing entrepreneurial activities inside established firms. They will gain insight into the effective commercial exploitation of technological and organizational innovation in such a context. __Credit Hours: 3 hrs

MGMT 604 - Strategic Communication and Ethical Decision-Making
This course focuses on the management strategies and skills called for in the corporate communication function including a thorough analysis of the ethical aspects that arise and their implications for message content and strategy. __Credit Hours: 3 hrs

MGMT 610 - Diagnostic Techniques and Research Methods
The study and application of diagnostic and quantitative methods for problem diagnosis, implementation and evaluation of the organizational development process and human resource management practices. __Credit Hours: 3 hrs _Prerequisites: DS501 or an undergraduate statistics course

MGMT 611 - HR and Technology
Focusing on the interface of Human Resource Management functions with technology, this course highlights the latest theories, practices and emerging issues in e-HR. Students apply electronic human resource techniques for using Web-based, online and traditional HR sources. __Credit Hours: 3 hrs

MGMT 613 - Leadership in Business Organizations: Theory and Practice
Leadership in business organizations: theory and practice will provide students with knowledge of the theories of leadership in business organizations as well as practice in leadership and management. The course will use several diagnostic techniques to help students understand their own leadership strengths as well as areas to be developed. __Credit Hours: 3 hrs

MGMT 614 - Growth Strategies for Entrepreneurial Ventures
This course focuses on the opportunities and challenges of managing growing ventures. The course provides students with frameworks and expertise that are essential for developing and executing functional decisions in entrepreneurial firms. Students
will propose specific functional decisions and project financial performance of the venture based on those decisions. __Credit Hours: 3 hrs

MGMT 615 - Organization Design and Strategy
To provide in-depth understanding of organizations' ability to survive, grow and adapt in relation to internal and environmental pressures. Analytical and problem skills are practiced also in such areas as structure, conflict, strategy and use of power. __Credit Hours: 3 hrs

MGMT 616 - Negotiation and Influence Applications for Business
This course focuses on the management applications called for in negotiation and influence situations in business. It will emphasize the development of effective negotiation and influence skills for the managerial and executive levels. Role-plays and experimental exercises will be used for skill development. __Credit Hours: 3 hrs

MGMT 618 - Staffing Organizations
This course will train students to staff organizations. Students will obtain skills in human resource planning, recruitment, job analysis, selection techniques and evaluation (validation). __Credit Hours: 3 hrs

MGMT 620 - Compensation Management
Study of the concepts and practices of compensation administration with emphasis on current theories of compensation and motivation. __Credit Hours: 3 hrs

MGMT 621 - Benefits Administration
This course provides students with an understanding of the concepts and practices of benefit administrations. Comprehensive discussion of all major employer-provided benefits programs including pensions, life insurance, medical insurance, and government mandated benefits are discussed. Emphasis is made on regulatory developments and the strategic role of benefits. __Credit Hours: 3 hrs

MGMT 622 - Current Issues in Human Resources Management
This course develops students' skills in recognizing key contemporary human resource issues that impact organizational effectiveness and in applying Human Resource Management and Organizational Development skills to effectively deal with the source of these issues. __Credit Hours: 3 hrs

MGMT 625 - Management in Unionized Settings
Presents the background necessary to examine top management strategic decision-making regarding unions as well as day-to-day union worker-management interaction and introduces methods and skills necessary for change in management-union relationships. __Credit Hours: 3 hrs

MGMT 628 - Human Resource Development
Course is designed to educate students in training-needs analysis and program design, implementation of training programs, training evaluation procedures, human resource cost-effectiveness plans and job design techniques. __Credit Hours: 3 hrs

MGMT 636 - Current Topics in Entrepreneurship
This course focuses on issues and topics of interest to entrepreneurs. Topics will vary from semester to semester but may include: family business, corporate entrepreneurship and franchising. __Credit Hours: 3 hrs

MGMT 638 - Building Continuous Improvement Teams
Develops an understanding of the continuous improvement philosophy and the organizational systems required to support a team-oriented approach to designing, developing and implementing continuous improvement teams. The course provides knowledge and critical skills necessary for building continuous improvement teams. __Credit Hours: 3 hrs

MGMT 639 - Continuous Enrollment
Graduate students who are completing research (master's or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

MGMT 648 - Communication and Organizational Development
The development of communication understanding and skills as required in organizational management and interaction by internal and external change agents. __Credit Hours: 3 hrs

MGMT 650 - Leadership of the Strategic Quality Management Firm
This course introduces the students to the strategic concepts for leading a strategic quality management firm. Cross-functional considerations between development, marketing, operations, human resources, financial controls and international functions are covered. __Credit Hours: 1 hr

MGMT 650 - Leadership of the Strategic Quality Management Firm
This course introduces the students to the strategic concepts for leading a strategic quality management firm. Cross-functional considerations between development, marketing, operations, human resources, financial controls and international functions are covered. __Credit Hours: 3 hrs
MGMT 656 - E-Business Strategy
Develops understanding of how the Internet and associated technologies create opportunities for new and existing businesses. Students will analyze how e-business initiatives are shaping competitive dynamics in different industries and how electronic technology affects strategic options for individual firms. __Credit Hours: 3 hrs

MGMT 660 - Field Studies in Entrepreneurship
This course will provide hands-on experience in the challenges of building an entrepreneurial venture. Possible projects include feasibility studies, assessing value chain, technology transfer or merger and acquisition. Students will develop a variety of skills including decision making under uncertainty and delivering projects under strict cost, time and quality guidelines. __Credit Hours: 3 hrs

MGMT 679 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MGMT 680 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MGMT 681 - Special Topics
Selected topic(s) from the field of management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MGMT 688 - Practicum in Human Resource Management/Organizational Development
The opportunity to participate in a human resource management and/or organizational development project in an active organization under the close guidance of a practicing consultant. Students who have credit in MGMT690/691/692 may not take this course. This course is restricted to MSHROD students only. __Credit Hours: 3 hrs __Prerequisites: MGMT505, MGMT509, MGMT602, MGMT610, MGMT628, at least two elective technique courses and department permission

MGMT 692 - Thesis in Organizational Development
Students will develop and defend an original research proposal in the area of human resource management and/or organizational development, collect and analyze data, and prepare and defend a written report of their findings. Students who have credit in MGMT688 may not take this course. __Credit Hours: 3 hrs __Prerequisites: department permission

MGMT 695 - Seminar: Management
A study of selected management issues and problems. Specific topics vary from semester to semester. __Credit Hours: 3 hrs

MGMT 696 - Strategic Management
Focuses on the responsibilities of managing an organization form the perspective of the general manager. Integrates multiple business functions as part of formulating and implementing strategies that enable firms to strive for a competitive advantage and sustainable firm performance with ethical practices. Emphasizes application of strategic concepts to different business situations. Students should schedule this course no earlier than their last two semesters in the MBA program. __Credit Hours: 3 hrs __Prerequisites: ACC605, FIN620, MGMT604 and MKTG610

MGMT 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr

MGMT 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs

POM 374 - Introduction to Production/Operations Management
The major design, processes and control problems of operations management in manufacturing and service organizations. Topics include product or service design; facilities location and layout; productivity, including job design, standards and incentive plans; project management; materials management, including forecasting, purchasing and inventory control; operations control; quality assurance and control. __Credit Hours: 3 hrs __Prerequisites: DS265

Marketing

MKTG 360 - Principles of Marketing
Marketplace exchanges; the relationship between marketing activities of the organization and the consumer. __Credit Hours: 3 hrs

MKTG 369 - Promotional Strategy
Problems of advertising and other promotional tools in the context of Integrated Market Communications theory. Topics include interactive promotions, direct marketing promotions, sales promotions and public relations. Emphasis on problem-based decision making and development of promotional campaigns. __Credit Hours: 3 hrs __Prerequisites: MKTG369 __Notes: This is an undergraduate course available for graduate credit.

MKTG 474 - Promotional Strategy
Problems of advertising and other promotional tools in the context of Integrated Marketing Communications theory. Topics include interactive promotions, direct marketing promotions, sales promotions and
MKTG 510 - Marketing Management
This course introduces students to the basic concepts, practices and analytical techniques of marketing. As such, it is designed to be comprehensive in scope, contemporary in outlook and managerial in orientation. It may include computerized-decision simulation and teamwork. __Credit Hours: 3 hrs  

MKTG 525 - Global Marketing
Global marketing issues are examined with emphasis on the design and implementation of strategies for global markets. Students gain knowledge and skills in cross-cultural issues as well as in global market segmentation and positioning, global marketing research, and global marketing mix. Case analyses and projects are utilized to this end. __Credit Hours: 3 hrs _Prerequisites: MKTG510

MKTG 530 - E-Commerce Essentials
This course provides an overview of e-business. It explores managerial issues related to economics, marketing and logistics of business transactions in the networked economy. Topics include information technology, value creation and delivery, supply-chain management, electronic financial markets, digital storefronts, digital payments and the ethical/legal issues involving electronic commerce that are highlighted in case studies. __Credit Hours: 3 hrs

MKTG 590 - Special Topics
The courses involve daily visitations to various types of domestic and/or foreign business enterprises where discussions are held in seminars concerning marketing and other business affairs. Subsequent seminar sessions are held by the instructor at a classroom arranged prior to the trip. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

MKTG 591 - Special Topics
The courses involve daily visitations to various types of domestic and/or foreign business enterprises where discussions are held in seminars concerning marketing and other business affairs. Subsequent seminar sessions are held by the instructor at a classroom arranged prior to the trip. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MKTG 592 - Special Topics
The courses involve daily visitations to various types of domestic and/or foreign business enterprises where discussions are held in seminars concerning marketing and other business affairs. Subsequent seminar sessions are held by the instructor at a classroom arranged prior to the trip. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

MKTG 599 - Independent Study
An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 1 hr

MKTG 597 - Independent Study
An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 2 hrs

MKTG 598 - Independent Study
An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 3 hrs

MKTG 610 - Marketing Policies and Problems
This course involves analysis and resolution of a variety of realistic marketing problems. Students utilize marketing tools and theory along with financial analysis in order to evaluate and select viable solutions. Admission to the MBA program is required. __Credit Hours: 3 hrs _Prerequisites: MKTG510

MKTG 620 - Customer Satisfaction
Defining and measuring customer satisfaction as a means to improve customer retention. Among the topics covered are the development of the concept of customer satisfaction as a way of doing business, measuring satisfaction, defining expectations and benchmarking. __Credit Hours: 3 hrs _Prerequisites: MKTG510

MKTG 630 - Sales Operation Management
An intensive investigation of the sales function and its relationship to the total marketing program. Topics considered include setting sales objectives, formulation of sales strategy, development of sales organization, relationships with distributors and dealers, public policy as it relates to the sales function, analytical tools for forecasting sales, qualitative and quantitative measures of sales performance, control of sales operations and integration of sales and other marketing functions. Reviews of the literature in the sales field and cases stressed. __Credit Hours: 3 hrs _Prerequisites: MKTG510

MKTG 635 - Internet Marketing
Focuses on the marketing issues and practices relevant to computer-mediated environments such as the World Wide Web and other emerging electronic media. Students will develop an understanding of online consumers in shaping and influencing marketing strategy and will analyze marketing issues facing firms that want to compete on the Internet. __Credit Hours: 3 hrs _Prerequisites: MKTG510

MKTG 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit
MKTG 640 - Integrated Marketing Communications

An integrative decision-oriented course emphasizing the strategic functions of an effective program of corporate promotions employing advertising, interactive marketing, direct marketing, sales promotions, public relations, experimental marketing and other relevant aspects of integrated marketing communications. __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 645 - Database Marketing

This course teaches how databases are properly created and effectively used in marketing. It offers an in-depth, practical coverage of the strategic and tactical decisions involved in marketing database development, maintenance, warehousing and mining. It emphasizes how organizations can establish and maximize their relationships with customers using databases. __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 655 - Strategic Brand Management

This course addresses important branding processes and decisions faced by organizations. It blends theories and practices of product and brand management to promote active learning. Particular emphasis is on understanding the psychological principles and buying behaviors to improve managerial decision-making with respect to positioning, product features, pricing and distribution. __Credit Hours: 3 hrs __Prerequisites: MKTG510 and admission to College of Business

MKTG 665 - Seminar in Consumer Behavior

A seminar designed to study theories and models of consumer behavior, with an emphasis on applications of theory to the development of marketing strategies. __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 670 - Advanced Methods in Marketing Research

This course outlines the application of research methods to aid in marketing decision making. Included are approaches to problem definition, secondary data review, questionnaire development, data collection, data analysis and managerial interpretation, and the reporting of research findings. This course will also provide a detailed look at a computer-based statistical package (e.g., SPSS). __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 679 - Special Topics

Selected topic(s) from the field of marketing. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: MKTG510

MKTG 680 - Special Topics

Selected topic(s) from the field of marketing. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: MKTG510

MKTG 681 - Special Topics

Selected topic(s) from the field of marketing. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 685 - Seminar

The purpose of this seminar is to develop both an understanding of, and a point of view toward, some of the major problems of marketing that are dealt with briefly or not at all in required course work. Topics vary from year to year in accordance with the needs and interests of the students. __Credit Hours: 3 hrs __Prerequisites: MKTG510

MKTG 695 - Seminar

An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 1 hr __Prerequisites: MKTG510 and department permission

MKTG 697 - Independent Study

An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 2 hrs __Prerequisites: MKTG510 and department permission

MKTG 698 - Independent Study

An intensive study of a problem, under the direction of graduate faculty members. __Credit Hours: 3 hrs __Prerequisites: MKTG510 and department permission

Liberal Studies

MLS 500 - Introduction to Interdisciplinary Technology

An interdisciplinary overview of basic concepts and approaches to the study of technology and culture. Included are introductions to the philosophy of technology, history of technology, future studies and contemporary issues in technology. __Credit Hours: 3 hrs __Prerequisites: graduate standing

MLS 501 - History of Technology

An overview of major technical developments that have affected the course of human history. Emphasis is placed on the interrelationships of the technical to the sociocultural milieu. __Credit Hours: 4 hrs __Prerequisites: graduate standing

MLS 590 - Special Topics

Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

MLS 591 - Special Topics

Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special
topics may be used on a degree program
__Credit Hours: 2 hrs

MLS 592 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program
__Credit Hours: 3 hrs

MLS 593 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program
__Credit Hours: 4 hrs

MLS 597 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required.
__Credit Hours: 1 hr _Prerequisites: department permission

MLS 598 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required.
__Credit Hours: 2 hrs _Prerequisites: department permission

MLS 599 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required.
__Credit Hours: 3 hrs _Prerequisites: department permission

MLS 601 - Multidisciplinary Seminar in Technology
A multidisciplinary seminar, which explores different philosophic and discipline-based perspectives of technology around a special topic. Usual format is a lecture series with outside speakers held at a conference center. May be repeated for credit if course content is different. __Credit Hours: 2 hrs

MLS 602 - Contemporary Issues in Technology
An in-depth examination of a particular issue (or set of related issues), usually of topical interest, related to technology and society. This course generally will take place in business and industry settings. May be repeated for credit if course content is different. __Credit Hours: 2 hrs _Prerequisites: MLS500 or department permission.

MLS 607 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 1 hr _Prerequisites: department permission

MLS 608 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 2 hrs _Prerequisites: department permission

MLS 609 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

MLS 610 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 2 hrs _Prerequisites: department permission

MLS 611 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 3 hrs _Prerequisites: department permission

MLS 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

MLS 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hr _Prerequisites: department permission

MLS 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hr _Prerequisites: department permission

MLS 682 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 2 hrs _Prerequisites: department permission

MLS 690 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 1 hr _Prerequisites: department permission

MLS 691 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 2 hrs _Prerequisites: department permission

MLS 692 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 3 hrs _Prerequisites: department permission

MLS 697 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 1 hr _Prerequisites: department permission

MLS 698 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 2 hrs _Prerequisites: department permission

MLS 699 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

Music

MUSC 500 - Introduction to Graduate Studies
An introductory course in scholarly research and writing that includes library orientation for the music researcher, basic types of music research, evaluation of basic source materials
A study of compositional and harmonic techniques of major composers of the 18th, 19th 20th and 21st centuries. __Credit Hours: 2 hrs __Prerequisites: Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC511. Students who fail to achieve an acceptable score must take MUSC509, and receive a “B” or better in the course, prior to enrolling in MUSC511.

**MUSC 512 - Counterpoint**

This course presents principles and practices of modal and tonal counterpoint, with an introduction to twentieth-century counterpoint. The analysis of representative works and contrapuntal writing in two and three parts. __Credit Hours: 2 hrs __Prerequisites: students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC512. Students who fail to achieve an acceptable score must take MUSC509, and receive a “B” or better in the course, prior to enrolling in MUSC512.

**MUSC 513 - Form and Analysis**

A study of structural principles and techniques through analysis of representative works of the 18th, 19th, 20th and 21st centuries. __Credit Hours: 2 hrs __Prerequisites: Students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC512. Students who fail to achieve an acceptable score must take MUSC509, and receive a “B” or better in the course, prior to enrolling in MUSC512.

**MUSC 514 - Improved Composition**

A performance-based class in which students invent music based on 18th-century harmonic practices. Studies include thoroughbass, voice leading, figuration and cadences. __Credit Hours: 2 hrs __Prerequisites: Pre or Coreq: MUSC511, MUSC512, MUSC513, MUSC516, or department permission

**MUSC 515 - Common Practice Improvisation**

A performance-based class in which students invent music based on 18th-century harmonic practices. Studies include thoroughbass, voice leading, figuration and cadences. __Credit Hours: 2 hrs __Prerequisites: Pre or Coreq: MUSC511, MUSC512, MUSC513, MUSC516, or department permission

**MUSC 516 - Schenkerian Analysis**

An intensive study of the analytical methods and theories of Heinrich Schenker. Students will acquire skill in interpreting and creating “Schenkerian” analyses. __Credit Hours: 2 hrs __Prerequisites: students must achieve an acceptable score on the Music Theory Graduate Placement Exam prior to enrolling in MUSC516. _When Offered: Students who fail to achieve an acceptable score must take MUSC509, and receive a

**MUSC 517 - Introduction to Music Composition**

An introduction to the creative process in music through analysis of traditional and new music; original composition in small forms, illustrating various techniques an media. __Credit Hours: 2 hrs __Prerequisites: department permission _Repeatable: May be repeated for credit.

**MUSC 518 - Music Composition I**

In this course students will examine the creative process in music through analysis of traditional and new music and create original composition in small forms, illustrating various techniques and media. __Credit Hours: 3 hrs __Prerequisites: department permission _Repeatable: May be repeated for credit.

**MUSC 546 - Collegium Musicum**

A performance oriented course made up of various ensembles of soloists—instrumental, vocal and mixed—with a focus on historically informed performance. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

**MUSC 550 - Ensemble**

Participation in any regular departmental ensemble. Open to qualified students upon satisfactory audition. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

**MUSC 551 - Vocal and Instrumental Collaboration**

This course provides keyboard students with experience in collaborating with singers and instrumentalists, through the acquisition of basic skills and repertoire. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

**MUSC 554 - Chamber Music**

Study in rehearsing and performing in nonconducted chamber ensembles, e.g. trios, quartets, quintet, etc., coached weekly by an instructor. The difficulty of music studied must be appropriate for the graduate level. __Credit Hours: 1 hr _Repeatable: May be repeated for credit with permission of adviser.
MUSC 559 - Studies in Literature
Topics to be selected from the following: instrumental repertoire (for a specific principal instrument), chamber ensemble repertoire, or similar topics. Topics to be offered will be announced in the schedule of classes. __Credit Hours: 1 hr _Prerequisites: Prereq or Coreq: MUSC500 _Repeatable: May be repeated for credit with permission of adviser.

MUSC 561 - Studies in Literature
Topics to be selected from the following: instrumental repertoire (for a specific principle instrument), vocal repertoire (including solo song and opera), chamber ensemble repertoire or similar topics. Topics to be offered will be announced in the schedule of classes. __Credit Hours: 2 hrs _Prerequisites: Prereq or Coreq: MUSC500 _Repeatable: May be repeated for credit with permission of adviser.

MUSC 565 - Ensemble Pedagogy and Literature
Study of music pedagogy and literature appropriate to secondary school instruction. Topics to be selected from the following: band, choir, or orchestra. Topics to be offered will be announced in the schedule of classes. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit with permission of adviser.

MUSC 590 - Special Topics
An intensive study of subject matter not provided in other departmental offerings. Topic must be approved by the graduate adviser. __Credit Hours: 1 hr _Prerequisites: department and adviser approval _Repeatable: May be repeated for credit.

MUSC 591 - Special Topics
An intensive study of subject matter not provided in other departmental offerings. Topic must be approved by the graduate adviser. __Credit Hours: 2 hrs _Prerequisites: department and adviser approval _Repeatable: May be repeated for credit.

MUSC 592 - Special Topics
An intensive study of subject matter not provided in other departmental offerings. Topic must be approved by the graduate adviser. __Credit Hours: 3 hrs _Prerequisites: MUSC518 or equivalent _Repeatable: May be repeated for credit.

MUSC 595 - Workshop in Music
Topic to be announced in the schedule of classes. The content will change from semester to semester. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

MUSC 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

MUSC 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

MUSC 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

MUSC 617 - Music Composition II
Original composition based upon techniques of the 20th and 21st centuries; composition of works of moderate length. __Credit Hours: 3 hrs _Prerequisites: MUSC518 or equivalent _Repeatable: May be repeated for credit.

MUSC 618 - Music Composition III
Original composition in larger forms, with the intent of performance. __Credit Hours: 3 hrs _Prerequisites: MUSC617 _Repeatable: May be repeated for credit.

MUSC 631 - Renaissance Music
A study of selected works representing the forms, styles and idioms of the 15th and 16th centuries. __Credit Hours: 2 hrs _Prerequisites: MUSC500

MUSC 632 - Baroque Music
A study of selected works representing some of the styles and idioms of the 17th century, and of the early and mid-18th century (Bach, Handel). __Credit Hours: 2 hrs _Prerequisites: Prereq or Coreq: MUSC500

MUSC 633 - Music in the Classical Era
The development of musical style and form in the Classical era, principally in the works of Haydn, Mozart and Beethoven. __Credit Hours: 2 hrs _Prerequisites: Prereq or Coreq: MUSC500

MUSC 634 - Music in the Romantic Era
A study of the development of musical style and form in the Romantic era. Intensive study of selected compositions. __Credit Hours: 2 hrs _Prerequisite/Corequisite: MUSC500

MUSC 635 - Music Since 1900
A study of major works, composers and
aesthetic systems since 1900. Selected works to be announced each time the course is offered. __Credit Hours: 2 hrs __Prerequisites: MUSC660

MUSC 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

MUSC 642 - Foundations of Music Education
The study of the development of music education in the United States and the influence of philosophy upon development. __Credit Hours: 2 hrs

MUSC 646 - Music Curriculum and Assessment
An in-depth study of all aspects of the K-12 music curriculum, including national and state standards, assessment issues, and administrative concerns such as staffing, scheduling, facilities and equipment. __Credit Hours: 2 hrs

MUSC 660 - Pedagogy of Music Performance
An introduction to methodologies for teaching musicianship and performance skills. The course will also present practical advice for establishing, organizing and operating a music-teaching studio. __Credit Hours: 1 hr __Prerequisites: Coreq: MUSC661 (instrumentalists) or MUSC662 (vocalists)

MUSC 661 - Principal Instrument in Pedagogy
A study of pedagogical approaches to a specific principal instrument; it includes a survey of appropriate techniques, practices and materials. __Credit Hours: 1 hr __Prerequisites: Coreq: MUSC660

MUSC 662 - Vocal Pedagogy
Explores the science and art of training the vocal mechanism through the study of specific problems and their solution. __Credit Hours: 2 hrs __Prerequisites: Coreq: MUSC660

MUSC 665 - Elementary Piano Pedagogy
In this course students will become familiar with childhood musical development and music learning theory; observe, develop and practice methodologies for teaching piano to young children; and prepare to answer the questions on the comprehensive exam in piano pedagogy that relate to childhood and beginning piano. __Credit Hours: 2 hrs

MUSC 666 - Intermediate to Advanced Piano Pedagogy
In this course, students will gain knowledge of intermediate to advanced levels of piano music through teaching, analysis and performance; understanding of studio business practices through practical applications and class discussions; and knowledge of historical developments in piano pedagogy and their importance in developing a teaching philosophy. __Credit Hours: 2 hrs

MUSC 667 - Group Piano Pedagogy and Technology
In this course, students will develop group piano teaching techniques through the observation and practice teaching of adult students; knowledge of texts and materials for use in college class piano curriculums; and competency in using piano lab equipment including sequencers, MIDI disks and computer programs. __Credit Hours: 2 hrs __Prerequisites: department permission

MUSC 668 - Advanced Conducting for Music Educators
An in-depth study of interpretative factors and subtle baton techniques, and conducting styles for the advanced conductor. __Credit Hours: 2 hrs

MUSC 669 - Special Topics
An intensive study, at an advanced level, of subject matter not provided in other departmental offerings. Topics must be approved by the graduate adviser. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

MUSC 670 - Special Topics
An intensive study, at an advanced level, of subject matter not provided in other departmental offerings. Topics must be approved by the graduate adviser. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

MUSC 671 - Special Topics
An intensive study, at an advanced level, of subject matter not provided in other departmental offerings. Topics must be approved by the graduate adviser. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

MUSC 678 - Graduate Recital
Required in partial fulfillment of the Master of Music in Performance degree __Credit Hours: 2 hrs __Prerequisites: Coreq: Applied Music

MUSC 679 - Ensemble Conducting Recital
A culminating one hour ensemble performance which synthesizes and reinforces the student’s knowledge of the literature presented in concert. Students will demonstrate the conducting and rehearsal techniques required during the preparation stages and performance process. __Credit Hours: 2 hrs __Prerequisites: department permission

MUSC 680 - Thesis
A substantial and original undertaking in scholarly research, designed to reflect, focus and deepen the student’s individual interests and to provide a culminating experience in the Master of Music in Music Education
MUSC 692 - Final Project
A creative, analytical or pragmatic project of a substantial and original nature, designed to reflect the student’s individual interests and to serve as a culminating experience in the Master of Music in Piano Pedagogy degree. __Credit Hours: 2 hrs _Prerequisites: Prereq or Coreq: MUSC500 and department permission

MUSC 694 - Seminar
Topics may include music pedagogy, performance, or research. May also serve as summary review for fulfillment of the Comprehensive Review requirement. __Credit Hours: 2 hrs _Prerequisites: Prereq or Coreq: MUSC500

MUSC 697 - Independent Study
An intensive and advanced study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 1 hr _Prerequisites: department permission _Repeatable: May be repeated for credit.

MUSC 698 - Independent Study
An intensive and advanced study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

MUSC 699 - Independent Study
An intensive and advanced study of a problem or group of problems, under the direction of a Department faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

Network and Information Technology Administration

NITA 587 - Co-operative Education
Credit Hours: 3 hrs

NITA 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

NITA 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

NITA 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

NITA 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: graduate standing or department permission

NITA 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

NITA 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

NITA 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis

NITA 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis

NITA 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis

NITA 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no credit basis

NITA 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

NITA 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Nursing

NURS 500 - Advanced Pathophysiology
This course provides advanced knowledge of normal and pathophysiologic mechanisms of
disease, providing the foundation for clinical assessment, decision-making and management in advanced practice nursing. The student will be able to relate this knowledge to interpreting changes in normal function indicative of illness and in assessing an individual’s response to treatment. __Credit Hours: 3 hrs

NURS 502 - Advanced Health Assessment
This course provides the advanced practice nurse with the theory and skill to perform a complete history and physical examination of the adult client and builds on skills the student has acquired in a basic health assessment and experience. The course focus is on refining and expanding advanced examination techniques and differential diagnosis of common health problems. __Credit Hours: 3 hrs

NURS 506 - Nursing Theory for Practice and Research
This course focuses on interrelationships among theory, research and clinical practice within nursing’s body of knowledge. Students will analyze and evaluate conceptual models and theories for application to practice and research. __Credit Hours: 3 hrs

NURS 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

NURS 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

NURS 597 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 1 hr _Prerequisites: department permission

NURS 598 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 2 hrs _Prerequisites: department permission

NURS 599 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __Credit Hours: 3 hrs _Prerequisites: department permission

NURS 605 - Health Status Trends and Health Care Delivery Systems
Focuses on health care delivery systems as complex social systems. The student will explore national health status trends and their impact on local health care delivery. Students will assess, analyze and evaluate the physical, legal, ethical, political and technical dimensions of health care systems as environments for delivery of client services. __Credit Hours: 3 hrs

NURS 607 - Evolving Roles of Nurses in Health Care Delivery Systems
This course focuses on professional development for advanced-practice roles. It includes advanced leadership and collaborative skills, strategic planning, financial management, total quality management, various models of nursing governance and competing power paradigms. Students use this knowledge in the development of strategies for clinical systems management. The course provides a forum to explore ways to facilitate client care within various organizational environments. Graduate students only for NURS607. __Credit Hours: 3 hrs

NURS 609 - Trends in Nursing Management
This course focuses on management issues that influence the advanced-practice nurse in healthcare delivery systems. Students analyze systems theory, management roles and leadership concepts including delegation and supervision. They examine financial issues including budgeting and wages. Students examine combinations of leadership approaches and strategies to meet quality and cost outcomes. __Credit Hours: 3 hrs

NURS 610 - Research Design, Methods and Analysis
This course focuses on types of design, methods, sources of knowledge and analyses useful to the consideration of selected nursing research problems, with a focus on using research-based knowledge in practice. This course builds on the foundations of research critique and utilization studied at the baccalaureate level. Students develop a beginning proficiency in critiquing nursing research studies. Students critique clinical, educational and systems research in nursing. __Credit Hours: 3 hrs _Prerequisites: NURS506

NURS 614 - Seminar: Proposal Development
This course focuses on the application of the research process in nursing. Students will develop a beginning research proposal to address a nursing research question. Students develop practical skills related to the coding of data, analysis of research data and use of a computer statistical analysis package. __Credit Hours: 2 hrs _Prerequisites: NURS610
NURS 620 - Teaching in Health Care Systems: Instructional Strategies and Skills

This course focuses on theories, strategies and research related to the teaching/learning process in health care systems. Issues and trends influencing effective teaching and learning are addressed. __Credit Hours: 3 hrs

NURS 622 - Teaching in Health Care Systems: Curriculum/Program Development and Evaluation

Focuses on curriculum theory, design, implementation, evaluation and research specific to health care systems. Students participate in small-group experiences assessing curriculum issues in health care settings, and applying curriculum theory and instructional design. __Credit Hours: 3 hrs

NURS 624 - Practicum in Teaching in Health Care Systems

This clinical practicum focuses on teaching in health care systems under the mentorship of a selected faculty member or preceptor. The student will apply knowledge synthesized from teaching/learning theory. Three-hour practicum, 135 precepted contact hours. __Credit Hours: 3 hrs _Prerequisites: NURS620 and NURS622

NURS 639 - Continuous Enrollment

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr _Prerequisites: department permission

NURS 650 - Advanced Adult Health Nursing I

This course focuses on clinical decision making in advanced practice nursing as well as independent and interdependent nursing interventions applicable to clients with acute or chronic health problems. Students use assessment data along with clinical decision-making skills to arrive at nursing diagnoses and collaboratively define goals based on this data. Course combines theoretical content with student-selected and instructor-approved preceptor guided clinical practice. Two-hour seminar, one-hour clinical (45 precepted clinical hours). __Credit Hours: 3 hrs _Prerequisites: NURS500, NURS502, NURS506

NURS 660 - Advanced Adult Health Nursing II

This course focuses on selected knowledge derived from an eclectic approach in developing advanced nursing interventions related to health promotion and risk reduction. Theories and research from nursing, public health, education and psychology are investigated and applied to the development of strategies and interventions that promote health and wellness and prevent disease. Two-hour seminar, one-hour clinical (45 precepted clinical hours). __Credit Hours: 3 hrs _Prerequisites: NURS500, NURS502 and NURS506

NURS 665 - Practicum in Adult Health Nursing

This clinical practicum focuses on delivery of advanced nursing care to adults. Students will focus on systems, such as case management — “managing” care for groups of clients with similar health concerns in given health settings. The course emphasizes the synthesis of knowledge related to client care. The student selects her/his own setting based on individual goals and objectives, and works under the mentorship of a selected clinical preceptor. Three-hour clinical, 135 precepted clinical hours. __Credit Hours: 3 hrs _Prerequisites: NURS650 and NURS660

NURS 675 - Practicum in Systems Management

This clinical practicum focuses on management of clinical systems within health care organizations under the mentorship a selected preceptor. The student will apply knowledge synthesized from organizational theory, nursing theory, nursing research, nursing systems, human resource management and financial management. Students select their own setting based on individual goals and objectives. Three hour practicum, 135 precepted contact hours. __Credit Hours: 3 hrs _Prerequisites: NURS607 and NURS609

NURS 679 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

NURS 680 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

NURS 681 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

NURS 686 - Practicum in QI in Health Care Systems

This clinical practicum is the capstone course for the QI certificate. Under mentorship of a preceptor in selected health care organizations and the direction of a faculty member, students apply knowledge and skills learned in previous courses. Students complete a realistic project in some aspect of QI at the selected health care organization. __Credit Hours: 3 hrs _Prerequisites: HLAD525, NURS605, and either MGMT638, QUAL552/597 or
NURS 688 - Field Study
Development of a major research project completed under the direction of a research adviser. __ Credit Hours: 2 hrs _Prerequisites: NURS614

NURS 693 - Thesis
Development of an original study that contributes to nursing knowledge. Completed under the guidance of a major professor and thesis committee. __ Credit Hours: 4 hrs _Prerequisites: NURS614

NURS 697 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 1 hr _Prerequisites: department permission

NURS 698 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 2 hrs _Prerequisites: department permission

NURS 699 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 3 hrs _Prerequisites: department permission

NURS 779 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __ Credit Hours: 1 hr

NURS 781 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __ Credit Hours: 2 hrs

NURS 787 - Special Topics
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 1 hr _Prerequisites: department permission

NURS 797 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 2 hrs _Prerequisites: department permission

NURS 798 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 3 hrs _Prerequisites: department permission

NURS 799 - Independent Study
An intensive study of a selected professional problem, under the direction of a faculty adviser. __ Credit Hours: 3 hrs _Prerequisites: department permission

NURS 800 - Nursing Education Theory Development
This course is designed to expand the thinking and problem solving skills of doctoral students to envision effective outcomes based nursing education curricula based on research and theoretical frameworks from both nursing and education. __ Credit Hours: 3 hrs _Prerequisites: Doctoral Student Standing; Completion of Education Core Course Work; Completion of Research Core Course Work

NURS 802 - Assessment of Courses, Curricula and Programs in Nursing Higher Education
This course is designed to broaden the students' knowledge and skills in matching assessment strategies with teaching methods at the course level, tracking content strands and threads throughout a nursing curriculum, and assessing program outcomes. CCNE and NLN-AC professional accreditation standards as well as State Board of Nursing Rules are used to guide comprehensive examination of nursing programs through self-study simulations. __ Credit Hours: 3 hrs _Prerequisites: Doctoral student standing; Completion of Education Core course work; Completion of Research Core course work; Students is the Ph.D. Educational Studies program only

NURS 803 - Advanced Concepts in Diverse Populations in Nursing Education
This course is designed to assist the student in recognizing the unique variables involved in designing educational programs for diverse populations. Students examine several populations, critique and evaluate the impact health disparities have on the learning needs of specific populations. Methods will include lecture, discussion, classroom and service learning activities designed to enhance application of course content. __ Credit Hours: 3 hrs _Prerequisites: Doctoral student standing; Completion of Education Core course work; Completion of Research Core course work; Ph.D. in Educational Studies

Occupational Therapy

OCTH 412 - Models of Practice
This course will introduce the student to the theories and models of practice that are the foundations of practice in occupational therapy. Models from other fields that inform the occupational therapist’s understanding of occupational performance will also be
Students will analyze models and apply knowledge to selected cases. __Credit Hours: 3 hrs __Prerequisites: EDPS325 or IHHS260 __Notes: This is an undergraduate course available for graduate credit.

OCTH 419 - Programming I

Students will have opportunities to learn methods of evaluating occupational performance issues present in selected conditions that affect the child from birth to adolescence. The effect of environmental, cultural, and social factors on occupational performance is emphasized. Students use critical thinking skills to develop intervention plans using theoretically sound techniques. __Credit Hours: 6 hrs __Prerequisites: OCTH412, OCTH495, OCTH500, OCTH502 __Notes: This is an undergraduate course available for graduate credit.

OCTH 420 - Level I Fieldwork I

Exploring the role of an occupational therapist in a clinical setting. __Credit Hours: 3 hrs

OCTH 495 - Neurological Foundations of Human Occupation

Students will pursue knowledge in the neurosciences related to function and dysfunction of the central nervous system. Emphasis is placed on integrated brain function impacting daily living and occupational performance. Related clinical conditions will be correlated with research investigations that support appropriate and current interventions in occupational therapy. __Credit Hours: 3 hrs __Prerequisites: ZOOL417; EDPS325 or IHHS260 __Notes: This is an undergraduate course available for graduate credit.

OCTH 500 - Philosophy of Occupational Therapy

Through readings, classroom discussions and group experiences, the students will collectively develop an understanding of the philosophy of occupational therapy. This course includes analysis of experiences and examination of the documents of the profession to develop a view of occupational therapy practice today. __Credit Hours: 3 hrs __Prerequisites: admission to program

OCTH 502 - Theory and Analysis of Occupation

Students will use laboratory, discussions, lecture, readings, observations and interviews as methods of learning about the science of occupation. This course places emphasis on the individual’s experience of occupation, and the exploration of its personal, social and cultural meanings. __Credit Hours: 3 hrs

OCTH 516 - Level I Community Fieldwork II

Students will complete a part-time fieldwork experience in a community agency. Fieldwork experiences will be accompanied by a seminar. __Credit Hours: 3 hrs __Prerequisites: OCTH502 and ZOOL417

OCTH 517 - Level I Community Fieldwork III

Students will complete a part-time fieldwork experience in a community agency or in an occupational therapy setting. Students will also participate in a directed seminar. __Credit Hours: 3 hrs __Prerequisites: OCTH516, OCTH640 and ZOOL417 __Corequisite: OCTH619

OCTH 519 - Programming II

Students will have opportunities to learn methods of evaluating occupational performance issues present in selected conditions that affect individuals from adolescence to middle adulthood. The effect of environmental, cultural and social factors on occupational performance is emphasized. Students use critical thinking skills to develop intervention plans using theoretically sound techniques. __Credit Hours: 6 hrs __Prerequisites: OCTH419 and OCTH420; Senior and master’s students only __Corequisite: OCTH516

OCTH 520 - Advanced Theory of Practice

This course investigates occupation-centered, ecological models that focus on the transaction of the person, the environment, and the individual’s occupational performance. A systematic analysis of each model is conducted and theoretical concepts are applied to the student’s area of practice. __Credit Hours: 3 hrs __Prerequisites: admission to the M.S. program

OCTH 530 - Advanced Skills for Occupational Therapy Practice

This course affords post-professional occupational therapists an opportunity to update their knowledge of relevant professional documents, examine their own practice by developing the skill of self-reflection, extend their clinical reasoning competence and apply the concept of evidence-based practice to their own practice of occupational therapy. __Credit Hours: 3 hrs __Prerequisites: admission to the M.S. program

OCTH 540 - Research Methods I

This course introduces students to research methods used in occupational therapy. Students develop beginning skills in formulation of research questions, proposal development, approaches to design and implementation, and dissemination of results. Students choose research advisers and begin to participate in research with their adviser. __Credit Hours: 3 hrs __Prerequisites: MATH360, MATH370, MATH570, MATH571, MATH574, SOC1250, EDPS5621 or EDPS651; junior, senior and master’s students only

OCTH 550 - Occupational Science and Occupational Therapy: A Partnership for Client Agency

This course provides an introduction to the discipline of occupational science and its contribution to the practice of occupational therapy. The development of the discipline is explored to the present time. An analysis and evaluation of theoretical and practice applications derived from the writings of occupational scientists is conducted. __Credit Hours: 3 hrs __Prerequisites: Admission to the MSOT program- Advanced Masters Program

OCTH 588 - Fieldwork Level II: Clinical Skills

Students will be assigned to a 12-week
fieldwork experience designed to develop and refine clinical skills. This may be completed on a part-time or a full-time basis. __Credit Hours: 6 hrs __Prerequisites: completion of all academic work and faculty approval

OCTH 589 - Fieldwork Level II: Clinical Skills
Students will be assigned to a 12-week fieldwork experience designed to develop and refine clinical skills. This may be completed on a part-time or a full-time basis. __Credit Hours: 6 hrs __Prerequisites: completion of all academic work and faculty approval

OCTH 590 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

OCTH 591 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

OCTH 592 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

OCTH 593 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs

OCTH 597 - Independent Study
An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: permission of graduate coordinator

OCTH 598 - Independent Study
An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: permission of graduate coordinator

OCTH 599 - Independent Study
An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: permission of graduate coordinator

OCTH 600 - Supervision and Professional Roles
This course covers the management of occupational therapy services in multiple environments. Students will learn grant-writing skills and complete a capstone project developing an OT program for use in a nontraditional setting. __Credit Hours: 3 hrs __Prerequisites: OCTH619 and OCTH517

OCTH 619 - Programming III
Students will have the opportunity to learn methods of evaluating occupational performance issues that affect individuals from middle to older adulthood. The effect of environmental, cultural and social factors on occupational performance is emphasized. Students use critical thinking skills to develop intervention plans using theoretically sound techniques. __Credit Hours: 6 hrs __Prerequisites: OCTH519, OCTH516. Master’s students only __Corequisite: _OCTH517

OCTH 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. Credit will not apply toward degree completion. __Credit Hours: 1 hr __Prerequisites: department permission

OCTH 640 - Methods of Occupational Therapy Research
In this course, students will examine the current status of research in occupational therapy, identify the research design concerns that are inherent in the profession and develop a thesis proposal. __Credit Hours: 2 hrs __Prerequisites: OCTH520, OCTH530 and the required series of research and statistics courses

OCTH 679 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. __Credit Hours: 1 hr

OCTH 680 - Special Topics
The content of these courses will vary from semester to semester. Topics in occupational therapy that are not offered in regular course offerings will be covered. __Credit Hours: 2 hrs

OCTH 681 - Neurobehavioral Foundations of Occupational Performance
This course will examine the neuroscience literature as it relates to human development and occupational performance. Selected topics may include the myths and realities of neural function, neuroplasticity, CNS embryology, perception, cognition, emotion, male/female differences in brain organization
and behavior regulation. __Credit Hours: 3 hrs _Prerequisites: Admission to MSOT program

OCTH 683 - Social Policy and Legislation Impacting Occupational Therapy Practice

This course investigates health, education and human services provisions mandated by federal, state, and local legislation as they affect the well-being of consumers using occupational therapy services. An ecological perspective is used as the context for thinking about policy and legislation with the intent of broadening the student’s ability to advocate and provide services. __Credit Hours: 3 hrs _Prerequisites: Admission to MSOT program

OCTH 684 - Advanced Assessment and Intervention Models for Occupational Therapists

In this course, students will increase their knowledge and expertise in best practices for evaluation and treatment in occupational therapy. Content will include critical review of assessment procedures, models of service delivery and consideration of systems and settings in which Occupational Therapy practice occurs. __Credit Hours: 3 hrs _Prerequisites: Admission to MSOT program

OCTH 686 - Culminating Project I

Under the direction of their research adviser, students will carry out a research project and develop beginning proficiency in proposal development and research skills. The completion of the project will occur in OCTH687. __Credit Hours: 3 hrs _Prerequisites: OCTH540

OCTH 687 - Culminating Project II

Under the direction of their research adviser, students will complete research projects begun in OCTH686 and disseminate their findings. This is the culminating project in the research sequence of the master’s of occupational therapy (MOT) degree. __Credit Hours: 3 hrs _Prerequisites: OCTH686

OCTH 690 - Thesis

Individual research conducted under the guidance of, and in consultation with, a thesis committee and the graduate coordinator. __Credit Hours: 1 hr _Prerequisites: department permission

OCTH 691 - Thesis

Individual research conducted under the guidance of, and in consultation with, a thesis committee and the graduate coordinator. __Credit Hours: 2 hrs _Prerequisites: department permission

OCTH 692 - Thesis

Individual research conducted under the guidance of, and in consultation with, a thesis committee and the graduate coordinator. __Credit Hours: 3 hrs _Prerequisites: Admission to MSOT program

OCTH 693 - Seminar in Occupational Therapy

The focus of these courses will vary from semester to semester. These courses are designed to allow intensive analysis of specialized occupational therapy content. __Credit Hours: 1 hr

OCTH 694 - Seminar in Occupational Therapy

The focus of these courses will vary from semester to semester. These courses are designed to allow intensive analysis of specialized occupational therapy content. __Credit Hours: 2 hrs

OCTH 695 - Seminar in Occupational Therapy

The focus of these courses will vary from semester to semester. These courses are designed to allow intensive analysis of specialized occupational therapy content. __Credit Hours: 3 hrs

OCTH 696 - Seminar in Occupational Therapy

The focus of these courses will vary from semester to semester. These courses are designed to allow intensive analysis of specialized occupational therapy content. __Credit Hours: 4 hrs

OCTH 697 - Independent Study

An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: permission of graduate coordinator

OCTH 698 - Independent Study

An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: permission of graduate coordinator

OCTH 699 - Independent Study

An intensive study of a problem or a group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: permission of graduate coordinator

Production/Operations Management

OM 503 - Operations Management

Examination of planning, operation and control activities of manufacturing and service organizations leading to products and services that satisfy customer needs. Topics include: quality management, project management, demand forecasting, capacity and operations planning and scheduling, SCM, JIT, product and process design and facilities location and layout. __Credit Hours: 3 hrs

OM 574 - Design of Operations Systems

An in-depth qualitative, quantitative and computerized analysis of problems related to the design of manufacturing and nonmanufacturing systems. Topics include productivity, product and service design, process planning, job design and work measurement, facilities location, layout of facilities and facilities maintenance. __Credit Hours: 3 hrs

OM 503 - Operations Management

Examination of planning, operation and control activities of manufacturing and service organizations leading to products and services that satisfy customer needs. Topics include: quality management, project management, demand forecasting, capacity and operations planning and scheduling, SCM, JIT, product and process design and facilities location and layout. __Credit Hours: 3 hrs
OM 575 - Inventory Control I
This is a two-course sequence in operations and inventory management. Topics include differences between production-to-stock, production-to-order and assemble-or-finish cases and examples, and presentations by The course consists of lectures, discussions, management.

**OM 576 - Inventory Control II**
An in-depth quantitative and qualitative analysis of various production planning and control problems in manufacturing and service organizations. Topics include forecasting of demand, aggregate production planning and scheduling. The role of management science and computer models in solving these problems is also reflected in the course. A term project for graduate students is required. __Credit Hours: 3 hrs __Prerequisites: OM503 or equivalent

**OM 577 - Tools for Strategic Quality Management**
The course consists of lectures, discussions, cases and examples, and presentations by students of a research project related to management by fact of strategic quality management in the workplace. __Credit Hours: 3 hrs

**OM 590 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

**OM 591 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

**OM 592 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

**OM 597 - Independent Study**
An intensive study of one or more problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

**OM 598 - Independent Study**
An intensive study of one or more problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

**OM 599 - Independent Study**
An intensive study of one or more problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

**OM 639 - Continuous Enrollment**
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr __Prerequisites: department permission

**OM 679 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

**OM 680 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

**OM 681 - Special Topics**
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

**OM 697 - Independent Study**
An intensive study of one or more problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

**OM 698 - Independent Study**
An intensive study of one or more problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission
OM 699 - Independent Study
An intensive study of one or more problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

Polymers and Coatings

PC 400 - Polymers and Coatings Technology I
Introduction to synthesis, film formation, structure, and properties of polymers commonly used in coatings. Polymer systems to be covered include acrylic, vinyls, polyesters, alkyds, oils, epoxies, epoxyesters, aminoplasts, urethanes, phenolics, hydrocarbons, celluloses. _Credit Hours: 3 hrs _Prerequisites: CHEM371/372 __

PC 401 - Polymers and Coatings Technology I Laboratory
Synthesis, characterization and identification of polymers used in coatings. The synthesis of solution acrylic, vinyl, acrylic emulsion, polyester, alkyd, epoxyester, melamine formaldehyde and urethane polymers with extensive use of physical techniques such as GIRT, GP and calorimetry. _Credit Hours: 3 hrs-Corequisite: PC400

PC 402 - Polymers and Coatings Technology II
Formulation in oil-based and waterborne coatings covering the use of solvents, pigments and additives. Principles of adhesion and corrosion, and the use of conversion coatings. Safety, health, government regulations and paint production techniques. _Credit Hours: 3 hrs _Prerequisites: PC400

PC 503 - Advanced Polymers and Coatings Technology Laboratory
This course is designed to teach advanced and practical aspects of the science and technology of polymers and coatings. In this course a variety of advanced coatings, formulations and polymer synthesis will be carried out. Topics emulsion polymerization, automotive, powder, UV/EB will be covered. _Credit Hours: 3 hrs _Prerequisites: PC400, PC401

PC 543 - Advanced Polymer Synthesis for Coatings Technology
Theories of step-growth and chain-growth polymerization will be related to synthesis of acrylics, vinyls, polyesters, alkyds and epoxies by bulk, solution and emulsion polymerization. _Credit Hours: 2 hrs _Prerequisites: PC400 and PC401, or equivalents

PC 544 - Waterborne Coatings
A course to present the technology involved in preparing and utilizing water-based coatings. The strengths and limitations of water-based materials versus other forms of coatings (solvent-based, powder and others) are presented. The requirements for polymers and other ingredients of water-based coatings formulations are taught. Students may not receive credit for both this course and PC416. _Credit Hours: 2 hrs _Prerequisites: PC400

PC 570 - Coating Evaluation and Testing
This course investigates the separation of coatings and polymers followed by subsequent identification of individual components and/or contamination by appropriate instrumental means. Hands-on training in instrumental methods include FTIR, FTIR/Microscopy, GC/MS, Pyrolysis/GC/MS, GPC, HPLC, and DSC with theoretical training in AA, ICP, and x-ray diffraction. _Credit Hours: 2 hrs _Prerequisites: PC400, PC402

PC 574 - Crosslinking Technology for Coatings
A course to present the physical and chemical principles of crosslinking of organic coatings. The physical properties of thermosetting coatings depend on the degree of crosslinking and the type of chemical linkages involved in crosslinking. The effects of these factors on today’s commercial coatings are explained and examined. _Credit Hours: 2 hrs _Prerequisites: PC400, PC402

PC 587 - Cooperative Education in Polymers and Coatings Technology
_Credit Hours: 3 hrs

PC 590 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr

PC 591 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs

PC 592 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

PC 593 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 4 hrs

PC 597 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs

PC 650 - Powder Coatings
This course will provide students with general knowledge in powder coating, a rapidly growing segment in the general coating and manufacturing industry. The
students will become familiar with a wide variety of industrial and automotive powder coatings, their chemistry and physics, application and formulations. __Credit Hours: 2 hrs _Prerequisites: PC400, PC401

PC 652 - Durability and Performance of Coatings
This course is designed to teach and evaluate the impact of a variety of parameters influencing both the durability and performance of coatings and polymers. In this course, the chemistry and physics of coatings, degradation of types and mechanisms and the role of coating components and other formulation variables will be discussed. __Credit Hours: 3 hrs _Prerequisites: PC400, PC402

PC 690 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 1 hr _Prerequisites: department permission

PC 691 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 2 hrs _Prerequisites: department permission

PC 692 - Thesis
A research based study conducted under the supervision of a University graduate faculty member and an approved graduate committee under the guidelines of the EMU Graduate Thesis Manual. __Credit Hours: 3 hrs _Prerequisites: department permission

PC 697 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 1 hr _Prerequisites: department permission

PC 698 - Independent Study
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

PC 699 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

PHIL 426 - Topics in Gender and Philosophy
An examination of gender and its relationship to other issues from a philosophical perspective. Possible topics include rationality, sexuality, aesthetics, ethics and political theory. __Credit Hours: 3 hrs _Prerequisites: two courses in philosophy other than PHIL120 or PHIL130 _Cross-listed: This course cross-listed with WGST426 _Notes: This is an undergraduate course available for graduate credit.

PHIL 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Repeatable: May be repeated for credit.

PHIL 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit.

PHIL 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit.

PHIL 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PHIL 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

PHIL 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

PHIL 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Course is offered on a credit/no-credit basis.

PHIL 679 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PHIL 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

PHIL 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Physics

PHY 406 - Ethical Issues in Physics
Ethical issues that a career physicist may encounter are studied and discussed. Historical accounts and essays are used to illustrate potential ethical conflicts associated with interactions within the scientific community as well as interactions between the scientific community and society at large. __Credit Hours: 1 hr _Prerequisites: PHY224 _Notes: This is an undergraduate course available for graduate credit.

PHY 420 - Capstone Project
This course provides the opportunity to synthesize knowledge of a wide range of physics and engineering topics into a research or design project, from concept development, through test and analysis, to final report. Assessment and development of concept knowledge and practical skills are integral to this course. __Credit Hours: 3 hrs _Prerequisites: (PHY230 or PHY330), PHY360 and PHY370 _Notes: This is an undergraduate course available for graduate credit.

PHY 431 - Intermediate Mechanics II
A continuation of PHY330. Mechanics of a rigid body, generalized coordinates, the Lagrangian and Hamiltonian functions, relative motion. __Credit Hours: 3 hrs _Prerequisites: PHY330, MATH223 _Notes: This is an undergraduate course available for graduate credit.

PHY 436 - Vibration and Sound
Detailed studies of vibration and wave motion with specific emphasis on acoustic waves in air and other media. Reflection, refraction and interference of sound; vibrating strings and air columns; electroacoustic transducers; architectural acoustics.

Lecture/Lab Hours: Laboratory required. Laboratory meets once per week for three hours. __Credit Hours: 4 hrs _Prerequisites: PHY222 or PHY224; MATH223 _Notes: This is an undergraduate course available for graduate credit.

PHY 442 - Optics and Optics Laboratory
An intermediate course with a laboratory dealing with fundamentals of geometrical, physical and quantum optics. Topics covered include: reflection, refraction, lenses and optical instruments, spectrosopes and spectra, interference, diffraction and polarization.

Lecture/Lab Hours: Three hours of laboratory per week. __Credit Hours: 4 hrs _Prerequisites: PHY222 or PHY224; MATH121 _Notes: This is an undergraduate course available for graduate credit.

PHY 444 - Applied Optics
A combined lecture/laboratory course covering applications of optics. Applications include, but are not limited to, polarized light devices, laser operation, holography, image processing and fiber optics.

Lecture/Lab Hours: Lecture: one hour per week. Laboratory: three consecutive hours per week. __Credit Hours: 2 hrs _Prerequisites: PHY224 _Notes: This is an undergraduate course available for graduate credit.

PHY 450 - Electricity and Magnetism II
A brief review of electrostatics and magnetostatics. The following topics will be covered: Faraday’s Law, displacement current, Maxwell’s equations, Poynting vector, plane wave solutions, polarization, wave propagation in dielectrics and conductors, dispersion, Fresnel’s equations, guided waves, dipoleradiation, Lienard-Wiechert potentials, and radiation theory. __Credit Hours: 3 hrs _Prerequisites: PHY350, PHY325 _Notes: This is an undergraduate course available for graduate credit.

PHY 452 - Kinetic Theory and Statistical Mechanics
An introduction to the kinetic theory of gases and statistical mechanics. For students concentrating in physics and those contemplating advanced study in related

PHY 456 - Electronics
Theory and application of passive and semiconductor circuit elements. Analog and digital circuit analysis and design problems.

Lecture/Lab Hours: Lecture: three hours per week. Laboratory: three hours per week. __Credit Hours: 4 hrs _Prerequisites: PHY222 or PHY224; MATH121 _Notes: This is an undergraduate course available for graduate credit.

PHY 458 - Electronic Devices for Scientists
Electronic devices used in electronic instruments: transistors, logic gates, and interface circuits. Interface techniques with applications to measurements.

Lecture/Lab Hours: Lecture: three hours per week. Laboratory: three hours per week. __Credit Hours: 4 hrs _Prerequisites: PHY456 _Notes: This is an undergraduate course available for graduate credit.

PHY 462 - Electrical Measurements
An intermediate course in electricity. The fundamental principles involved in measuring electric and magnetic quantities, the use of high-grade electrical apparatus. Experiments include studies of galvanometers, Wheatstone bridges of various forms, potentiometers and standard cells, vacuum tubes, magnetic measurements and methods of measuring capacitance and inductance.

Lecture/Lab Hours: Laboratory: four consecutive hours, one day per week. __Credit Hours: 4 hrs _Prerequisites: PHY221/PHY223 and PHY222 or PHY224 _Notes: This is an undergraduate course available for graduate credit.
fields of science and engineering. Maxwell-Boltzmann distribution law, entropy and probability, transport phenomena, quantum statistics, Bose-Einstein and Fermi-Dirac statistics, the connection between statistical mechanics and thermodynamics, the equation of state, the elementary electron theory of metals and statistical methods in nuclear physics. __Credit Hours: 3 hrs _Prerequisites: PHY224 and MATH223 _Notes: This is an undergraduate course available for graduate credit.

PHY 495 - Readings in Physics (Honors Course)
Designed to give individual students a planned intensive reading program in some field of physics, the subject being chosen jointly by the student and the instructor. A part of this course will be the presentation of an hour-long talk in the chosen subject at an open meeting of the Department of Physics staff and students. __Credit Hours: 1 hr _Prerequisites: 20 hours of physics and department permission _Notes: This is an undergraduate course available for graduate credit.

PHY 510 - Proposal Writing in Physics
A course in writing research proposals in physics. Students will be introduced to a wide range of funding sources and requirements for seeking funds to support research. Students will learn how to perform appropriate literature searches, how to plan a research project, and how to identify potential funding sources for their project. __Credit Hours: 1 hr

PHY 511 - Mechanics, Sound and Heat for Teachers
A study of motion, forces, heat and sound for teachers of general science who have had little or no previous experience with physics. __Credit Hours: 3 hrs _Prerequisites: MATH105 and MATH107, or equivalent

PHY 512 - Light, Electricity, and Magnetism for Teachers
A study of light, electricity and magnetism for teachers of general science who have little previous experience with physics. __Credit Hours: 3 hrs _Prerequisites: PHY511; may be taken concurrently

PHY 514 - Instrumentation for Teachers
This course introduces the fundamentals of electrical instruments and the care and use of those instruments commonly encountered in secondary school science and in general science courses. __Credit Hours: 3 hrs

PHY 520 - Teaching of Physical Science
Scientific attitudes for use with elementary pupils, the scientific method, a selected group of physical principles, simple experiments which may be used in elementary school. __Credit Hours: 2 hrs

PHY 531 - Topics in Computational and Advanced Physics II
Continuation of PHY530. A course in advanced topics in physics including computational physics, classical mechanics, statistical mechanics, and electromagnetic theory. Students complete selected modules in these subject areas, as determined in consultation with the instructor. __Credit Hours: 2 hrs _Prerequisites: department permission required

PHY 540 - The History of Physics and Astronomy
A course designed to give students an understanding of the contributions made by selected scientists to the development of physics and astronomy, and the relationship of these ideas to the period in which the scientists lived. __Credit Hours: 2 hrs _Prerequisites: three courses in physics and/or astronomy (one may be taken concurrently)

PHY 541 - Modern Optics
A combined lecture/laboratory course
including but not limited to scattering and reflection of polarized light, polarization devices, beam optics, resonators, lasers and their spatial and temporal characteristics, Fourier image processing, holography, and optical phase conjugation. Lecture: three hours per week. Laboratory: three hours per week. __Credit Hours: 4 hrs _Prerequisites: PHY440 and MATH223 or equivalent

PHY 576 - Solid State Physics
An introduction to the principles and phenomena associated with the solid state: crystal structure, lattice waves, free electron model, band theory, properties of solids, imperfections. __Credit Hours: 3 hrs _Prerequisites: PHY350 and PHY475, or equivalent

PHY 578 - Cooperative Education in Physics
The course involves a cooperative education experience for the equivalent of one semester, full time. A written report is required at the end of the employment. Credit on a graduate program is subject to departmental approval. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PHY 590 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

PHY 591 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

PHY 592 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 594 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 1 hr _Prerequisites: department permission

PHY 595 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 596 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 597 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PHY 598 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis

PHY 599 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 622 - New Approaches to the Teaching of Science in the Junior High School I
Emphasis will be placed on the philosophy, content, teaching strategies and implementation of newer science curriculum materials designed for use in the junior high or middle school. Needed subject matter background will be provided. Extensive hands-on experience with demonstration and laboratory equipment will be included. __Credit Hours: 2 hrs _Prerequisites: science teaching experience or three laboratory science courses

PHY 623 - New Approaches to the Teaching of Science in the Junior High School II
Emphasis will be placed on the philosophy, content, teaching strategies and implementation of newer science curriculum materials designed for use in the junior high or middle school. Needed subject matter background will be provided. Extensive hands-on experience with demonstration and laboratory equipment will be included. __Credit Hours: 2 hrs _Prerequisites: science teaching experience or three laboratory science courses

PHY 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Course is offered on a credit/no-credit basis

PHY 650 - New Approaches to Teaching Physics I
Designed to increase the subject matter competency of those teaching or preparing to teach high school physics. Content, organization, problems and philosophy of the latest high school physics text materials.
PHY 651 - New Approaches to Teaching Physics II
Designed to increase the subject matter competency of those teaching or preparing to teach high school physics. The content, organization, problems and philosophy of the latest high school physics text materials. __Credit Hours: 2 hrs _Prerequisites: MATH120 and either PHY222 or PHY224 or PHY512

PHY 662 - Advanced Mechanics I
This course considers exactly soluble problems in the mechanics of discrete and continuous media. __Credit Hours: 3 hrs _Prerequisites: PHY530

PHY 671 - Electromagnetic Theory
Provides the student with a foundation in the classical theory of the Maxwell field equations and indicates the many current applications. Typical topics covered are: Maxwell’s equations, conservation laws, plane waves, wave guides, resonant cavities, dipole radiation, diffraction, radiation by moving charges, Bremsstrahlung, Cerenkov radiation, multiple fields, plasma electrodynamics. __Credit Hours: 4 hrs _Prerequisites: PHY530

PHY 675 - Quantum Mechanics
The Schroedinger equation and its applications in three dimensions, angular momentum, electron spin, Heisenberg’s matrix mechanics, Dirac notation, perturbation theories, variational methods, scattering theory. __Credit Hours: 4 hrs _Prerequisites: PHY475 or equivalent; PHY530

PHY 679 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

PHY 680 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 681 - Special Topics
An experimental course for subject matter not provided in other department offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 682 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 1 hr _Prerequisites: department permission

PHY 683 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 684 - Workshop in Physics
Laboratory and/or field experience guided toward problems and new curricula in physics and physical science. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 687 - Cooperative Education in Physics
The course involves a cooperative education experience for the equivalent of one semester, full time. A written report is required at the end of the employment. Credit on a graduate program is subject to departmental approval. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 688 - Cooperative Education in Physics
The course involves a cooperative education experience for the equivalent of one semester, full time. A written report is required at the end of the employment. Credit on a graduate program is subject to departmental approval. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 690 - Thesis/Final Project
Intensive research in physics or physics education including the submission of a thesis or written report under the direction of a research adviser. __Credit Hours: 1 hr _Prerequisites: department permission

PHY 691 - Thesis/Final Project
Intensive research in physics or physics education including the submission of a thesis or written report under the direction of a research adviser. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 692 - Thesis/Final Project
Intensive research in physics or physics education including the submission of a thesis or written report under the direction of a research adviser. __Credit Hours: 3 hrs _Prerequisites: department permission

PHY 693 - Seminar in Physics
Presentation of special reports and group discussion on selected topics in physics and physical science. __Credit Hours: 1 hr
PHY 694 - Seminar in Physics
Presentation of special reports and group discussion on selected topics in physics and physical science. __Credit Hours: 2 hrs

PHY 695 - Seminar in Physics
Presentation of special reports and group discussion on selected topics in physics and physical science. __Credit Hours: 3 hrs

PHY 697 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PHY 698 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

PHY 699 - Independent Study/Research
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

PLSC 120 - Global Issues
This course examines global concerns that transcend boundaries of local and national communities. It emphasizes global perspectives and approaches to analyzing and solving world problems. Each semester will focus on a particular contemporary global issue (such as terrorism, genocide, human rights, global gender issues, ethnic identity/conflict, migration, and democratization). __Credit Hours: 3 hrs _Notes: This is an undergraduate course in a graduate program.

PLSC 202 - State and Local Government
A study of the forms and functions of state and local governments with special emphasis on the government of Michigan. Especially valuable for teachers of social studies in senior and junior high schools. __Credit Hours: 3 hrs

PLSC 210 - Introduction to Political Analysis
An introduction to techniques for using data to test a wide range of theories regarding how the political world operates. Focus is on building skill in using quantitative and qualitative techniques to understand political phenomena ranging from individual voting behavior to international cooperation and conflict. __Credit Hours: 3 hrs

PLSC 211 - Introduction to Comparative Government
Develops conceptual tools for comparative analysis of diverse political systems, examining selected nation-states to identify and explain similarities and differences in regime types and patterns of politics. Also examines the interaction of global forces (such as colonialism, the Cold War, and global markets) with domestic social and political change. __Credit Hours: 3 hrs

PLSC 212 - Introduction to International Politics
An introduction to major theories and approaches in the study of international relations. The course considers the character of the international system, causes of conflict and war, foreign policy decision-making, determinants of economic development, and global environmental degradation. It also examines current issues such as terrorism, the protection of human rights, and globalization. __Credit Hours: 3 hrs

PLSC 213 - Introduction to Political Thought
Selections from major theorists are used to examine different approaches to perennial issues such as justice, liberty, equality, legitimacy and political order. __Credit Hours: 3 hrs

PLSC 216 - Municipal Government
A study of forms and functions of municipal government. __Credit Hours: 3 hrs

PLSC 221 - America at War: From Vietnam to Iraq
Course explores the causes and effects of recent U.S. military interventions from Vietnam to the present. Particular attention will be given to the development and features of the military industrial complex as well as comparison of the geopolitical and military strategies of the Cold War and the Global War on Terror. __Credit Hours: 3 hrs

PLSC 222 - War and Peace in the Nuclear Age
A study of the history of nuclear weapons strategy, arms control and disarmament since 1945; power in the international system; and the changing nature of conflict and peacekeeping in the post-Cold War era. __Credit Hours: 3 hrs

PLSC 270 - Public Administration
This course examines the nature of public administration; problems connected therewith — direction and organization; recruitment, training, and promotion of personnel;
PLSC 301 - American Legal System
A survey of various substantive components of the American system of law and its function in a democratic society. Special emphasis is placed upon problems of law enforcement, legal agencies and the processes involved in the administration of criminal justice. __Credit Hours: 3 hrs

PLSC 308 - Political Violence and Revolution
Examines political violence and revolution in comparative and international perspective. Considers theories and cases of structural violence rooted in social injustice; diverse forms and motives of political violence (such as war, rebellion, terrorism, ethnic conflict, national liberation); patterns and cycles of violence and non-violent alternatives; and the dynamics of revolution. __Credit Hours: 3 hrs

PLSC 310 - Methods of Political Research
Continued exploration of political analysis techniques introduced in PLSC210. Attention is paid to data gathering and hypothesis testing, with an emphasis on applying these techniques to real-world political problems. Possible applications include doing applied research work for local municipalities or developing and implementing public opinion surveys. __Credit Hours: 3 hrs

Prerequisites: PLSC210 __Notes: This is an undergraduate course available for graduate credit.

PLSC 311 - Politics of the Developing World
An examination of politics in developing countries, highlighting the relation between economic development and social/political change. The course investigates the colonial legacy and contemporary sociopolitical conditions, focusing on themes such as race/ethnicity and religion, gender, social polarization, role of the military, nationalisms, democratization, states and markets, globalization. __Credit Hours: 3 hrs

PLSC 327 - American Foreign Policy Process
This course explores the content and conduct of American foreign policy. It examines American foreign policy history, theories of decision making, foreign policy actors inside and outside government, as well as specific policy areas including national security, economic prosperity, the environment, and human rights. __Credit Hours: 3 hrs

PLSC 330 - Urban Politics
An examination of the urban political environment in the United States; structure, processes, power relationships, ethnic considerations, fiscal constraints and select, specific policy areas are considered. __Credit Hours: 3 hrs

PLSC 332 - Intergovernmental Relations and Federalism
A study of intergovernmental relations in the United States focusing on recent trends in the federal system. Examines significant developments and alternatives in shared governmental responsibilities, such as metropolitan reorganization, grant programs and regionalism. __Credit Hours: 3 hrs

PLSC 334 - Personnel Administration in Government
An examination of the basic personnel management practices of public bureaucracies. Topics include the development of the merit system and the civil service; public sector requirements for hiring, promotion, pay and benefits; discipline and grievance handling; the development and impact of public-sector collective bargaining. __Credit Hours: 3 hrs

PLSC 341 - International Law
A study of the development of international law and world society over time. Examinations of the effect of treaties, customary law, and equity on the role of the United Nations Security Council, international courts, human rights, the law of the sea, war crimes, and other selected topics. __Credit Hours: 3 hrs

PLSC 342 - International Organizations
The theory and practice of various types of international organizations (including intergovernmental and nongovernmental). Examines their efforts to create collective solutions to problems such as security, human rights and humanitarian issues, environmental and resource challenges, and global economic governance. __Credit Hours: 3 hrs

PLSC 343 - Model United Nations
Explores the structure and function of the United Nations in a changing global context. Course includes an in-depth simulation of varying countries and their positions, aims and role within the UN. Students learn about foreign policy analysis, multilateral diplomacy, international organizations, and contemporary global issues. __Credit Hours: 3 hrs

Notes: This course can be taken more than once. The second enrollment is PLSC 344.

PLSC 352 - Politics of Government Budgeting
An analysis of the political significance and the procedures of governmental budgeting in the United States. __Credit Hours: 3 hrs

PLSC 354 - Government and Politics of Canada
Analysis of the Canadian political system in terms of historical background; political environment; constitutional structure; legislative, executive, and judicial processes; political parties and pressure groups; public opinion and voting behavior; political problems and trends. __Credit Hours: 3 hrs

PLSC 361 - Russian Politics in Transition
Course explores the continuing political, economic, and social transformation of Russia, the largest and most powerful successor state of the Soviet Union. Current political patterns and trends are analyzed within the broader context of Russian and Soviet political history and compared to
PLSC 364 - Legislative Process
A study of the agencies, procedures, and influences in the formation of public policy by Congress, state legislatures and administrative agencies. __Credit Hours: 3 hrs

PLSC 367 - Latin American Politics
A study of patterns and selected cases in Latin American politics, with special attention to social movements and grassroots perspectives. Students develop a comparative framework for analyzing domestic and international forces affecting politics and regime change. Themes include neocolonialism, authoritarianism and democracy, reform and revolution, indigenous and women’s movements, globalization. __Credit Hours: 3 hrs

PLSC 371 - Government and Politics of the Middle East
The course focuses on the politics of several countries of the Middle East, devoting particular attention to the Arab-Israeli conflict, Iran’s nuclear ambitions, the Israeli nuclear program, secularism, Al Qaeda and terrorism, and the meaning of jihad. __Credit Hours: 3 hrs

PLSC 372 - Government and Politics of Sub-Saharan Africa
An approach to comparative politics through the examination of patterns of politics in Africa, including colonialism and decolonization, nationalist movements, ethnic conflict, transition to multiracial politics, challenges of state formation and regime change in sub-Saharan Africa. __Credit Hours: 3 hrs

PLSC 374 - Asian Political Systems
A study of the politics of Asia, including various regime types (such as liberal democratic, communist, and authoritarian capitalist). Comparative analysis will include themes such as political culture and ideology, political history, and changing roles of Asian countries in global politics and international political economy. __Credit Hours: 3 hrs

PLSC 380 - American Presidency
A study of executive power, emphasizing the contemporary presidential role and how it has evolved, the politics of candidate choice, the personal qualities and political styles of recent presidents, and the array of formal and informal institutions constituting the modern presidency. __Credit Hours: 3 hrs

PLSC 381 - Public Policy Analysis
An examination of the political and administrative process of policy-making and the techniques of analyzing policy issues such as welfare, education, crime and economic development. __Credit Hours: 3 hrs

PLSC 382 - Politics and the 21st Century
A study of the political and public policy directions of the future. Consideration will be given to worldwide political developments and alternative political futures as affected by accelerating sociopolitical and technological change. __Credit Hours: 3 hrs

PLSC 385 - Judicial Process and Behavior
A study of the judicial process and behavior in the United States with emphasis on analysis of policy making by the courts. Federal judicial structures and functions, decision making procedures and political ideology, and judicial review. __Credit Hours: 3 hrs

PLSC 388 - Asian Political Systems
A comparative study of recent political theories and ideologies including democracy, socialism, communism and fascism. The analysis includes modern psychological and sociological theories as they affect political thought. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

PLSC 390 - Poverty, Human Rights and Health
This interdisciplinary course examines international connections between poverty, human rights, and health, focusing on how social/ political structures and public policies affect human wellbeing. Prerequisite for PLSC/HLAD 391, experiential learning through a class trip to a developing country to meet community organizers and policy specialists working on poverty and health issues. __Credit Hours: 3 hrs _Prerequisites: sophomore, junior or senior standing _Notes: This is an undergraduate course available for graduate credit.

PLSC 391 - Field Study: Global Experience - Poverty, Human Rights and Health
Interdisciplinary course offering experiential learning through travel abroad to a developing country to meet community organizers and policy specialists working on poverty and health issues. Examines connections between poverty, human rights, and health, focusing on how social/ political structures and public policies affect human wellbeing. __Credit Hours: 3 hrs _Prerequisites: PLSC/HLAD 390. and sophomore, junior or senior standing _Notes: This is an undergraduate course available for graduate credit.

PLSC 410 - Political Science in Fiction
A discussion and analysis of political theories, institutions, and practices utilizing a storehouse of insightful and articulate materials not normally tapped in traditional political science courses: the works of essayists, aphorists, dramatists, pamphleteers, poets and novelists. __Credit Hours: 3 hrs _Prerequisites: political science major or minor; at least nine hours of political science course work completed; junior or senior standing or department permission _Notes: This is an undergraduate course available for graduate credit.

PLSC 412 - Comparative Legal Systems
Analysis of fundamental elements of the common law, the civil law, socialist laws and other legal traditions, and a comparison of the legal systems of select foreign countries. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

PLSC 418 - 20th-Century Political Theory
A study of recent political theories and ideologies including democracy, socialism, communism and fascism. The analysis includes modern psychological and sociological theories as they affect political thought. __Credit Hours: 3 hrs _Notes: This
is an undergraduate course available for graduate credit.

**PLSC 420 - Democracy and Power**
A study of the ideals and limitations of democracy. Examines values such as consent, equality, rights, citizenship, and the public interest and the limitations posed by authority, coercion, class conflict, distribution of wealth and the state. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

**PLSC 422 - American Political Theory**
A concise survey of American political thought. The origins, growth and present state of American political ideologies will be examined. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

**PLSC 431 - Theories of Public Organization**
An introduction to theories of organization as related to public bureaucracies in a democratic political context. __Credit Hours: 3 hrs _Prerequisites: PLSC270 _Notes: This is an undergraduate course available for graduate credit.

**PLSC 456 - Criminal Law I**
A study of criminal law currently in use in the United States with emphasis upon the way its basic concepts function; its principal components and problems central to its impact upon the political system. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

**PLSC 462 - Russian Foreign Relations**
An analytical and historical examination of Soviet foreign policies since 1917 — their sources, character, objectives and periodization. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

**PLSC 467 - Advanced International Relations**
The course will explore, through case studies, the ways in which ideas, cultural differences and different political systems combine to produce the international politics of today. Special attention will be paid to the United States in this process as well as the role of economics and international organization. Limit: 25 students. __Credit Hours: 3 hrs _Prerequisites: PLSC212

**PLSC 479 - Special Topics**
An examination of a topic in political science not normally covered in the curriculum, in which the distinctive concerns of political science are emphasized. Students may elect to take this course several times, provided different topics are studied, but they can be taken only twice for credit toward a major or minor in political science. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

**PLSC 480 - Field Seminar in Political Science/Public Administration**
Designed to help students relate their field experience to some aspect of political science or public administration. __Credit Hours: 3 hrs _Prerequisites: Department Permission

**PLSC 500 - Modern Public Administration**
An overview of the nature of public administration and its relation to politics and the tasks of the modern political system. __Credit Hours: 3 hrs _Prerequisites: department permission

**PLSC 515 - Public Personnel Administration**
This course examines contemporary administration practices in public sector personnel management, particularly as related to the local level of government. Areas of emphasis include the collective bargaining process, discipline practices, grievance handling and arbitration preparation, affirmative action requirements and recruitment, and validation of evaluation and promotion practices. __Credit Hours: 3 hrs _Prerequisites: department permission

**PLSC 520 - Land Use and Preservation Law**
A study of real property law in a political and legal context, with special emphasis on the private law devices of easement and covenants running with the land, and on the public device of zoning. __Credit Hours: 3 hrs

**PLSC 540 - Public Budget Administration**
Part one of a two-semester sequence, this course examines varying approaches to public sector budgeting, the political context of budgeting decisions, and critical steps in preparing public budgets. __Credit Hours: 3 hrs _Prerequisites: department permission

**PLSC 543 - Civil Rights and the African American Experience**
AAS543/PLSC543 Civil Rights and the African American Experience will explore the impact of race as a dominant and dynamic force that has shaped the interpretation of the Constitution and subsequent Civil Rights Acts. Students will critically examine how Black communities organized for change and how the civil rights movement contributed to American political reform. __Credit Hours: 3 hrs _Cross-listed: This is cross-listed with STS521.

**PLSC 550 - Ethics and Government**
This course explores the moral and ethical dimensions of government action. It seeks to enhance the capacity of professionals to practice sound ethical judgement in the exercise of administrative and public leadership roles. __Credit Hours: 2 hrs

**PLSC 565 - Studies in State and Local Government**
Studies in the governmental process at the state and local levels. Focuses on current issues and problems, including the changing aspects of federalism. __Credit Hours: 2 hrs

**PLSC 581 - Contemporary Problems in American Government**
Executive-legislative relationships, judicial review, the making of foreign policy, national defense, public welfare, the electoral process and the role of the citizen in American government. __Credit Hours: 3 hrs

PLSC 587 - Cooperative Education in Political Science
Four to six months full-time employment in the public sector. The program consists of one or two directed work experiences alternating with full-time University attendance. Application of credit toward political science programs is subject to departmental approval. __Credit Hours: 3 hrs
_prerequisites: department permission
_When Offered: Offered on a credit/no-credit basis.

PLSC 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Information on content can be obtained at the department office. Not more than six hours of special topics may be used as part of a degree program. __Credit Hours: 1 hr

PLSC 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Information on content can be obtained at the department office. Not more than six hours of special topics may be used as part of a degree program. __Credit Hours: 2 hr

PLSC 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Information on content can be obtained at the department office. Not more than six hours of special topics may be used as part of a degree program. __Credit Hours: 2 hrs

PLSC 597 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hour
_prerequisites: department permission
_When Offered: Offered on a credit/no-credit basis.

PLSC 598 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hours
_prerequisites: department permission

PLSC 599 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs
_prerequisites: department permission

PLSC 605 - Leadership and Nonprofit Management
This course explores major issues in the nonprofit sector including operations, board selection and development, fundraising, strategic planning, marketing and governmental relations. The course emphasizes identification of critical management and leadership competencies through theory and practice. __Credit Hours: 3 hrs

PLSC 610 - Public Organization Theory
An analysis of theories of organization in relation to government and public institutions. __Credit Hours: 3 hrs
_prerequisites: department permission

PLSC 615 - Public Budget Applications
Focuses on an assessment of budgetary alternatives, reforms and innovations in the public sector. A budgeting simulation provides interactive experience with public sector budgeting practices. __Credit Hours: 2 hrs
_prerequisites: PLSC540, and department permission to register

PLSC 620 - Administrative Law
The administrative/regulatory process in the legal context; the delegation doctrine, judicial review of the procedures and substance of administrative action. __Credit Hours: 2 hrs

PLSC 625 - Local Government Management
Administration and political problems encountered in the management of local governments, focusing on case studies in city-manager style cities. __Credit Hours: 2 hrs

PLSC 630 - Public Bureaucracies and Policy Formation
Focuses on the role of bureaucrats in public policy making. Examines both national and local policy making, and follows the process from agenda setting through evaluation. __Credit Hours: 3 hrs
_prerequisites: department permission

PLSC 635 - Public Policy Analysis Techniques and Applications
An advanced graduate-level course dealing with current policy analysis techniques and applications, decision-making, resource allocation and impact analysis. __Credit Hours: 2 hrs
_prerequisites: PLSC677 or other quantitative methods class recommended by the M.P.A. adviser

PLSC 639 - Continuous Enrollment
Graduate students who are completing research (master's or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr
_prerequisites: department permission
_notes: Credit will not apply toward degree completion
_When Offered: Offered on a credit/no-credit basis.

PLSC 640 - Modern County Government
Examines the past, present and future of county government in the United States. Topics covered include the legal setting, organization and structure, intergovernmental relations, politics, finances and service capabilities of counties. __Credit Hours: 2 hrs

PLSC 645 - Intergovernmental Relations
A study of recent trends in the American federal system. The course examines the major programs and organizational structures used to coordinate public policies at the federal, state and local levels of government. Emphasis will be placed on the concerns of local levels of government. __Credit Hours: 2 hrs

PLSC 650 - Urban Poverty Policy
This course provides an overview of the historical development, extent and causes of urban poverty. The politics of urban poverty will be explicitly examined. __Credit Hours: 2 hrs

PLSC 655 - Politics of Local Planning
An examination of the political and administrative aspects of governmental planning, primarily local land-use planning. The course focuses on the political nature of planning, political conflict in the planning process and the organizational and administrative context of local government planning. __Credit Hours: 2 hrs

PLSC 660 - Public Health Care Policy
Focuses on the governmental role in health care delivery and regulation. Follows various programs through the policy process from agenda setting to evaluation. Topical issues include cost containment and managed care. __Credit Hours: 2 hrs

PLSC 665 - Basic Arbitration Training for Professionals
A basic introduction to the major areas of public-sector labor arbitration, focusing on arbitrability, just-cause principles and evidence. Active participation in an arbitration simulation is required. __Credit Hours: 2 hrs

PLSC 677 - Analytical Methods for Public Administration
Introduces research design theory and methods for doing research in public and nonprofit administration. Focus is on data collection techniques – surveys, interviews, focus groups, direct observation. Requires preparation of a research proposal, which can form the basis of a capstone project. Part one of a two-course sequence. __Credit Hours: 2 hrs _Prerequisites: department permission

PLSC 678 - Analytical Techniques for Public Administration
Provides a comprehensive treatment of a range of quantitative techniques for public and nonprofit administration, including a rigorous examination of multiple regression analysis. This course helps students develop competencies for designing their own quantitative research and for analyzing quantitative work done by others. Part two of a two-course sequence. __Credit Hours: 3 hrs _Prerequisites: PLSC677 and department permission

PLSC 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

PLSC 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

PLSC 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

PLSC 688 - Practicum in Public Affairs
Extends classroom learning through administrative experience with public sector agencies. Includes written assignments and a seminar designed to help students relate their field experience to public administration concepts. __Credit Hours: 3 hrs _Prerequisites: department permission

PLSC 695 - Research Seminar in Public Administration
A capstone course in the public administration curriculum, acquainting students with the major research trends and problems in the discipline. Requires from the student a substantial research project, to be reviewed by three faculty members. __Credit Hours: 2 hrs _Prerequisites: graduate status, department permission and PLSC510, PLSC515, PLSC540, PLSC610, PLSC615, PLSC630, PLSC677 and PLSC678

PLSC 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

PLSC 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

PLSC 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Physical Science
PSCI 515 - Modern Physics for Teachers I
A study of relativity, the quantum properties of waves and the wave properties of particles, the Bohr atom, atomic spectra and wave machines. __Credit Hours: 2 hrs __Prerequisites: PHY222, PHY224 or PHY512

PSCI 516 - Modern Physics for Teachers II
A study of nuclear structure, radioactive decay, detection and measurement of nuclear radiation, nuclear reactions, fission, fusion and elementary particles. __Credit Hours: 2 hrs __Prerequisites: one course in physics

Psychology

PSY 101 - General Psychology
Principles, theories and methods evolving from the scientific analysis of behavior. This or PSY102 is a prerequisite to all other courses. __Credit Hours: 3 hrs __Notes: Not open to those who have earned credit in PSY102.

PSY 102 - General Psychology
Principles, theories and methods evolving from the scientific analysis of behavior. Laboratory demonstrations and experiments illustrating selected concepts. __Credit Hours: 4 hrs __Notes: Not open to those with credit in PSY101.

PSY 520 - Coping with Problem Behavior
The application of psychological principles of learning to school (and school-related) problem behaviors. Emphasis is on procedures that can be implemented with minimal cost by classroom teachers, principals and other school-related personnel. __Credit Hours: 2 hrs __Prerequisites: One course in psychology

PSY 522 - The Psychology of Stress and Relaxation
An overview of major stress theories, personal and professional application of relaxation and stress prevention techniques, and exploration of therapeutic and community efforts designed to deal with stress-related problems. __Credit Hours: 3 hrs __Prerequisites: one course in psychology

PSY 532 - Psychology of Adolescence
Physical, intellectual, emotional and social development from puberty to adulthood with emphasis on the significance for teachers and others interested in youth. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 540 - Psychology of Adjustment
Issues, concepts, principles and theories in human adjustment. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 542 - Women and Mental Health
Focus on theory and research concerning women’s responses to life stresses, women as clients in psychotherapy and the role of the female mental health professional. __Credit Hours: 2 hrs __Prerequisites: one course in psychology __Cross-listed: This course is cross-listed with WGST542.

PSY 543 - Abnormal Psychology
Behavior pathologies of children and adults, including symptom origins and methods of treatment. Not open to students who hold credit in PSY360 Abnormal Psychology. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 550 - Dynamics of Human Behavior
The determinants of behavior and personality, with emphasis on the physiological, psychological and cultural bases. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 551 - Psychology of Death and Dying
Study of attitudes toward, theories about, and empirical data concerning human mortality and suicide and its relevance to life adjustment, aging, religion and other areas. __Credit Hours: 2 hrs __Prerequisites: PSY101 or PSY102 or equivalent

PSY 552 - Theories of Personality
Major theories of personality including Freud, Jung, Adler, Rank, Sullivan, Kelly and holistic and learning theorists. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 555 - Industrial Psychology
Psychological principles, theories and methodology applied to behavior in industrial settings. Not open to students who have credit in PSY351 Industrial Psychology. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 557 - Consumer Psychology
A survey of psychological principles, theories and methodology relating to consumer behavior. __Credit Hours: 2 hrs __Prerequisites: one course in psychology

PSY 559 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

PSY 591 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

PSY 592 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs
PSY 595 - Workshop in the Scientific Approach to Problem Solving
The scientific approach to the solving of problems; the application of psychological principles. _Credit Hours: 2 hrs _Prerequisites: one course in psychology

PSY 597 - Individual Reading
Supervised reading of psychological literature to provide in-depth understanding of a selected psychological problem. _Credit Hours: 1 hr _Prerequisites: one course orienting student to the problem area, and department permission

PSY 598 - Individual Reading
Supervised reading of psychological literature to provide in-depth understanding of a selected psychological problem. _Credit Hours: 2 hrs _Prerequisites: one course orienting student to the problem area, and department permission

PSY 599 - Individual Reading
Supervised reading of psychological literature to provide in-depth understanding of a selected psychological problem. _Credit Hours: 3 hrs _Prerequisites: one course orienting student to the problem area, and department permission

PSY 600 - Psychological Statistics I
A study of statistical techniques including small-sample theory, analysis of variance and nonparametric statistics. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 601 - Psychological Statistics II
More complex analysis of variance models plus various correlational procedures. _Credit Hours: 3 hrs _Prerequisites: PSY600 and department permission

PSY 605 - Research Design
Research methods and analysis of data. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 610 - Clinical Neuropsychology
Study of methodology, research and clinical application of clinical neuropsychological principles. Includes demonstration of neuropsychological assessment test instruments. _Credit Hours: 3 hrs _Prerequisites: graduate standing and department permission

PSY 619 - Behavioral Assessment
A behavioral approach to measuring and analyzing personality using standardized tests and behavioral observation techniques; multiple test administration, scoring and evaluation experience are included. _Credit Hours: 3 hrs _Prerequisites: department permission _Concurrent Prerequisite: _PSY641

PSY 620 - Learning
Research methods, experimental findings and theories of learning. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 621 - Prepracticum in Behavioral Medicine
Students rehearse behavioral assessment and intervention skills applied to problems associated with medical treatment, illness prevention, and coping with secondary effects of medical conditions and treatment. _Credit Hours: 1 hr _Prerequisites: department permission _Concurrent Prerequisite: _PSY630

PSY 623 - Experimental Analysis of Behavior
The principles and parameters of respondent and operant conditioning and their application. Lecture and laboratory. _Credit Hours: 3 hrs _Prerequisites: department permission _Concurrent Prerequisite: _PSY651

PSY 625 - Behavior Change Methods I: Applied Behavior Analysis
Introduce theory, research and practical information relating to issues, techniques and implementation of treatments based on applied behavior analysis for psychological problems. _Credit Hours: 3 hrs _Prerequisites: PSY619, PSY620 and department permission _Concurrent Prerequisite: _PSY661

PSY 626 - Motivation and Emotion
A review of major findings, theories and recent research developments in the areas of motivation and emotion. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 627 - Behavior Change Methods II: Behavior Therapy
Introduces theory, research and practical information relating to issues, techniques and implementation of behavior therapy-based treatments for psychological problems. _Credit Hours: 3 hrs _Prerequisites: PSY619, PSY620 and department permission _Concurrent Prerequisite: _PSY671

PSY 628 - Behavioral Interventions with Children and Families
Covers empirical, conceptual and practical issues related to the development and implementation of clinical behavioral treatment strategies as applied to behavior problems encountered in children and family systems. _Credit Hours: 3 hrs _Prerequisites: PSY619, PSY620 and department permission _Concurrent Prerequisite: _PSY631

PSY 629 - Physiological Psychology
An examination of physiological processes and their relationships to behavior. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 630 - Behavioral Medicine
Study of the application of behavioral science theory, principles and methods to understanding health and illness and to prevention, diagnosis, treatment, rehabilitation and health care delivery. _Credit Hours: 3 hrs _Prerequisites: department permission _Notes: Concurrent
PSY 631 - Prepracticum in Behavioral Interventions with Children and Families
Development and implementation of clinical behavioral treatment strategies as applied to children and family systems will be conducted in a field setting. Two hours of fieldwork are required each week. _Credit Hours: 1 hr  _Prerequisites: PSY619, PSY620 and department permission  _Concurrent Prerequisite: _PSY628

PSY 632 - Sensation and Perception
A review of research and theory dealing with sensory experience and perception. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 635 - Cognitive Processes
A review of theoretical and empirical developments in the areas of thinking, problem-solving, concept formation, creativity and decision-making. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 637 - Social Psychology
The study of the processes underlying social interaction and behavior in social contexts. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr  _Prerequisites: department permission  _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

PSY 640 - Developmental Psychology
Biological, intellectual, social and emotional changes through the life span. Major concepts and problems related to developmental stages of life. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 641 - Prepracticum in Behavioral Assessment
Methods for measuring and analyzing behavior will be carried out in applied setting. Two hours of fieldwork are required each week. _Credit Hours: 1 hr  _Prerequisites: department permission  _Concurrent Prerequisite: _PSY619

PSY 646 - Personality: Theory and Research
Advanced study of concepts and empirical research in personality. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 651 - Prepracticum in Experimental Analysis of Behavior
Research that involves the experimental analysis of behavior will be conducted two hours each week in laboratory or field setting. _Credit Hours: 1 hr  _Prerequisites: department permission  _Concurrent Prerequisite: _PSY623

PSY 661 - Prepracticum in Applied Behavior Analysis
Single casework using techniques of applied behavior analysis will be carried out under supervision with volunteers interested in changing unwanted behavior or establishing new functional behavior. _Credit Hours: 1 hr  _Prerequisites: PSY619, PSY620 and department permission  _Concurrent Prerequisite: _PSY625

PSY 670 - Scientific and Professional Ethics
Guidelines and commonly shared ethical principles for psychologists are taught through case study, lecture and group discussion. The importance of following ethical guidelines along with consequences for noncompliance are stressed. _Credit Hours: 3 hrs  _Prerequisites: students must be enrolled in the clinical behavioral graduate program in psychology

PSY 671 - Prepracticum in Behavior Therapy
Casework will be conducted in a setting that will permit a system analysis and intervention such as a school, institution or family setting. The course requires two hours of fieldwork each week. _Credit Hours: 1 hr  _Prerequisites: PSY619, PSY620 and department permission  _Concurrent Prerequisite: _PSY627

PSY 679 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr  _Prerequisites: department permission

PSY 680 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs  _Prerequisites: department permission

PSY 681 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs  _Prerequisites: department permission

PSY 682 - Special Topics
Course content will consist of new topics in psychology taught on an experimental basis, thus changing from one semester to the next. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 4 hrs  _Prerequisites: department permission
PSY 683 - Field Practicum with Seminar
Students will participate in an organized health care setting for at least 250 clock hours. The practicum is to be supervised by a licensed psychologist on a regular, continuous and scheduled basis. __Credit Hours: 2 hrs each __Prerequisites: PSY641, PSY651 and PSY661 or PSY671, and department permission __When Offered: Offered on a credit/no-credit basis.

PSY 684 - Field Practicum with Seminar
Students will participate in an organized health care setting for at least 250 clock hours. The practicum is to be supervised by a licensed psychologist on a regular, continuous and scheduled basis. __Credit Hours: 2 hrs each __Prerequisites: PSY641, PSY651 and PSY661 or PSY671, and department permission __When Offered: Offered on a credit/no-credit basis.

PSY 685 - Developing Master’s Thesis
Guides students through the steps of generating a thesis question or hypothesis, literature review, methodological design, data collection, statistical analysis, discussion and conclusion of a master’s thesis. __Credit Hours: 2 hrs __Prerequisites: department permission

PSY 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

PSY 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

PSY 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

PSY 693 - Prepracticum in Psychotherapy
The prepracticum course is a lab course that orienting student to the problem area, and coverage of several systems theories — especially those relevant to clinical psychological practice and settings. A combination of theoretical and applied issues will be covered. __Credit Hours: 3 hrs __Prerequisites: department permission

PSY 700 - Organizational Systems Theory in Psychology
Examines social bases of behavior from a psychological systems perspective. Includes coverage of several systems theories — especially those relevant to clinical psychological practice and settings. A combination of theoretical and applied issues will be covered. __Credit Hours: 3 hrs __Prerequisites: PSY600

PSY 701 - Clinical Organizational Management
Teaches students to identify the goals specific to mental health agencies and psychological treatment settings. Student will learn to measure goals, analyze consistency of goals, implement strategies to integrate goals between levels and improve performance. Projects will allow students to apply various approaches. __Credit Hours: 3 hrs __Prerequisites: department permission

PSY 705 - Clinical Ecological Psychology
Advanced practical and theoretical understanding of the effects of environmental design on human behavior. Emphasizes the analysis and manipulation of settings as adjuncts to other clinical treatment modalities. __Credit Hours: 3 hrs __Prerequisites: department permission

PSY 720 - Child and Family Therapy
Overview of therapy methods used to treat disturbed children and families. Play, cognitive, behavioral, and family therapies will be covered. Students develop and implement an intervention program for children or conduct a therapy group for parents. __Credit Hours: 3 hrs __Prerequisites: PSY751 and department permission __Concurrent Prerequisite: PSY791

PSY 731 - Prepracticum in Psychotherapy
The prepracticum course is a lab course that is to be taken concurrently with the Psychotherapy course (PSY751). It will give students experience practicing short-term group therapy. Master’s students will design and conduct a three-session psychoeducational group for students on campus. __Credit Hours: 1 hr __Prerequisites: graduate standing in M.S. clinical program and department permission

PSY 743 - Psychopathology
A study of behavior disorders with emphasis upon current research methodologies, special problems and theoretical formulations, including controversial issues and social and ethical considerations. __Credit Hours: 3 hrs __Prerequisites: department permission

PSY 750 - Clinical Psychology
An overview of the field of clinical psychology, including the history of clinical psychology, professional practice, ethics, legal issues and current critical issues. __Credit Hours: 3 hrs __Prerequisites: department permission
PSY 751 - Psychotherapy
Principles of psychological interviewing, psychotherapy and psychotherapeutic techniques. _Credit Hours: 3 hrs _Prerequisites: graduate standing in M.S. clinical program or allied graduate programs (educational psychology, counseling, social work), and department permission _Concurrent Prerequisite: _PSY731

PSY 777 - Advanced History and Systems of Psychology
This course traces the historical development of modern psychological theories and the philosophy of science. It begins with pre-Socratic philosophy and ends with modern psychological systems. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 779 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr

PSY 780 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs

PSY 781 - Special Topics
An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs

PSY 783 - Practicum in Clinical Psychology I
Supervised psychological testing and interviewing in a clinical setting. _Credit Hours: 3 hrs _Prerequisites: PSY750, PSY762 and department permission _When Offered: Offered on a credit/no-credit basis.

PSY 771 - Projective Techniques
Introduction to administration, scoring and interpretation of projective techniques with special emphasis upon the Rorschach and TAT. _Credit Hours: 4 hrs _Prerequisites: department permission

PSY 784 - Practicum in Clinical Psychology II
Supervised psychological testing and counseling in a clinical setting, plus completion of a research project in that setting. _Credit Hours: 3 hrs _Prerequisites: PSY683 and department permission _When Offered: Offered on a credit/no-credit basis.

PSY 791 - Prepracticum in Child and Family Therapy
This course gives students experience working with children and families in clinical psychological therapeutic situations. Students will develop a three-session parenting group and be responsible for one child therapy case at the psychology clinic. _Credit Hours: 1 hr _Prerequisites: PSY751 and department permission _Concurrent Prerequisite: _PSY720

PSY 787 - Cognitive Assessment
This course covers the reliability of each testing method. _Credit Hours: 4 hrs _Prerequisites: department permission

PSY 797 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

PSY 788 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

PSY 789 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

PSY 801 - Program Evaluation in Clinical Psychology
Presents methods of clinical supervision and techniques for training clinicians in various assessment and treatment approaches. Course
includes instruction on how governmental and social organizational policies and laws affect health care delivery, supervision and training. Course also includes instruction on skills necessary for teaching a college course.

__Credit Hours: 3 hrs__  _Prerequisites: PSY600, PSY601, PSY605 and department permission

PSY 807 - Methods of Teaching, Clinical Supervision and Training in Psychology

Presents methods of clinical supervision and techniques for training clinicians in various assessment and treatment approaches. Course includes instruction on how governmental and social organizational policies and laws impact health care delivery, supervision and training. Course also includes instruction on skills necessary for teaching a college course.

__Credit Hours: 2 hrs__  _Prerequisites: PSY684 or PSY685, PSY883 and department permission _Concurrent Prerequisite: _PSY885

PSY 881 - Doctoral Seminar I: Assessment and Diagnosis

Integrates topics from psychopathology, clinical assessment and behavioral assessment. Compares and contrasts general clinical and behavior assessment, including sign versus sample approaches, ideographic versus standardized assessments, accountability in diagnosis, validity of assessment measures, purposes of diagnosis and cross-cultural issues.

__Credit Hours: 2 hrs__  _Prerequisites: department permission _Corequisite: _PSY743 or PSY619

PSY 882 - Doctoral Seminar II: Assessment and Treatment

Extends coverage of topics addressed in other courses, including PSY881. The focus is on the analysis of assessment information in order to select, develop, implement and assess the effectiveness of treatments. Treatment selection focuses on matching diverse client characteristics to treatment models.

__Credit Hours: 2 hrs__  _Prerequisites: PSY881 and department permission. _Corequisite: _PSY743 or PSY625

PSY 883 - Doctoral Seminar III: Issues in Professional Behavior

Specific ethical, legal and other professional issues will be explored in depth. Covered topics include treatment efficacy, social validity, cross-cultural issues, cost effectiveness, accountability and the implications of taking functional versus structural approaches to treatment.

__Credit Hours: 2 hrs__  _Prerequisites: PSY882 and department permission _Notes: Concurrent registration in PSY670 is required or PSY750 as a prerequisite.

PSY 884 - Doctoral Seminar IV: Contrasting Theoretical Approaches to Treatment

Provides an in-depth extension of the assessment issues presented in PSY881 and 882. Initiates coverage of treatment issues involving meta-analysis and other outcome research models, empirical validation, individualized and treatment choice models, as well as significant cross-cultural issues.

__Credit Hours: 2 hrs__  _Prerequisites: PSY883 and department permission _Corequisite: _PSY770 or PSY771 or PSY628

PSY 885 - Doctoral Seminar V: Models of Service Delivery, Training and Supervision

Extended coverage of conceptual issues raised in courses in teaching, supervision and training, especially PSY807. Topics include, comparing health care and educational models in clinical psychology, controversies in managed mental health care, policy making in mental health, training, licensing and accreditation issues.

__Credit Hours: 2 hrs__  _Prerequisites: PSY884 and department permission _Concurrent Prerequisite: _PSY703 or PSY807

PSY 886 - Doctoral Seminar VI: Applying the Core Curriculum to Clinical Issues

Prepares students for licensing exam issues by examining how various areas of psychology covered separately in the core curriculum inform clinical treatment. Covers topics such as developmental psychopathology, psychopharmacology, neurological structures and pathology, and perceptual changes. The impact of these areas on mental health treatment delivery is examined.

__Credit Hours: 2 hrs__  _Prerequisites: PSY885 and department permission

PSY 887 - Doctoral Seminar VII: Internship and Professional Issues

Exposes students to information about applying for and obtaining internships and employment in clinical psychology. Skills covered will include constructing vitas, writing letters of application, preparing for interviews and developing professional contacts. Discussion will include personal, clinical and intraprofessional issues in the life of the clinical intern and new professional.

__Credit Hours: 2 hrs__  _Prerequisites: PSY886 and department permission

PSY 888 - Doctoral Seminar VIII: Assessment and Treatment of Diverse Clinical Populations

Appropriate assessment and treatment approaches to psychological work with various clinical populations will be discussed. Students will learn to consider the implications of ethnicity, race, gender, sexual orientation, religious group membership and other related factors in developing and applying clinical treatments.

__Credit Hours: 2 hrs__  _Prerequisites: PSY887 and department permission

PSY 890 - Special Topics

An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.

__Credit Hours: 1 hr

PSY 891 - Special Topics

An exploration and study of topics not covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.

__Credit Hours: 2 hrs

PSY 892 - Special Topics

An exploration and study of topics not
covered in other program offerings. Student may elect more than once, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

PSY 895 - Developing the Doctoral Dissertation Proposal
Guides students through the steps required to develop and complete the doctoral dissertation: question or hypothesis formulation, research and literature review, methodological design, data collection and analysis, discussion and conclusion. __Credit Hours: 2 hrs _Prerequisites: complete first three years of required and elective courses in doctoral program and department permission

PSY 896 - Dissertation
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PSY 897 - Dissertation
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PSY 898 - Dissertation
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

PSY 899 - Dissertation
Completion of research problem, writing thesis and defense of dissertation. __Credit Hours: 8 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

Quality

QUAL 546 - Total Quality Management
An introductory course in the theory and practice of total quality management (TQM). The three core values of TQM include customer orientation, high levels of employee involvement across the enterprise and a focus on continually improving processes. Particular emphasis will be placed on the requirements for successful implementation of TQM in a wide range of organizations. __Credit Hours: 2 hrs

QUAL 548 - Tools for Continuous Improvement
Statistical process control and quantitative methods used in quality improvement. Topics include: overview of Quality principles; organization and presentation of quality-related data; summary descriptive measures; discrete and normal distributions in SPC; process capability; gage capability. Software will be used to illustrate course topics. __Credit Hours: 2 hrs

QUAL 549 - Problem Solving for Quality Improvement
This course describes the theories and strategies of quality problem solving. It demonstrates how to use one’s cognitive abilities to successfully resolve any concern and thus becomes more productive. Individuals learn how to discover root causes of problems, formulate a corrective action plan, implement a course of action and evaluate the solution. __Credit Hours: 2 hrs

QUAL 550 - Advanced Statistical Process Control
An advanced course in statistical process control. Topics will include special purpose control charts and procedures: analysis of runs, trends and cycles; process and gage capability; and underlying distribution analysis. __Credit Hours: 2 hrs _Prerequisites: QUAL320 or QUAL548

QUAL 551 - Design of Experiments
A study of the design and analysis of experiments to improve product quality. Topics include fundamental concepts applying to the design, conduct and analysis of factorial, as well as reporting results and formulating recommendations for improvements. __Credit Hours: 2 hrs

QUAL 552 - Quality Planning
Procedures utilized to organize and implement the quality function, including planning, budgeting information and test procedures, customer complaints and quality function deployment. __Credit Hours: 2 hrs

QUAL 553 - Geometric and Surface Texture Tolerancing
A study of tolerancing systems to include geometric dimensioning and tolerancing, and surface texture specifications. The primary objective of this course is to demonstrate the application of these systems to discrete parts. __Credit Hours: 2 hrs

QUAL 554 - Reliability, Maintainability and Product Safety
A study of the long-term performance of products concerned with failure and the ability to bring the products back into use; and product safety improvement and responsibility of manufacturers. Extensive use will be made of commercially available statistical software to analyze all course topics. __Credit Hours: 2 hrs

QUAL 555 - Quality Auditing
Determination of the existence and effectiveness of quality systems. Topics include: purpose, objectives, preparation and types of audits; and gathering and dissemination of quality audit information. __Credit Hours: 2 hrs

QUAL 556 - Human Aspects of Continuous Improvement
Employment of the human resource to initiate and maintain continuous improvement in organizations. Theory and examples of best practices including teamwork are emphasized. __Credit Hours: 2 hrs

QUAL 557 - Measuring Customer Satisfaction
This course includes information on how to
QUAL 558 - Lean Production

Study of lean practices across economic sectors. Class will focus on lean systems whose functions include elimination of waste, reducing costs, shortening cycle times, quality improvement, optimization of socio-technical systems and the process of continuous improvement. _Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with EM558

QUAL 559 - Cost of Quality

Cost of Quality is a tool for facilitating quality program and quality improvement activities. It represents the reduced cost in the absence of substandard service, product failures and manufacturing defects. This course covers prevention costs, appraisal costs and internal and external costs. _Credit Hours: 2 hrs

QUAL 568 - Lean Practices

A class in lean practices as applied to the service sector. Focus will be on the practical aspects on implementing and maintaining work systems capable of continuous improvement. In-depth treatment will be given to systems thinking, defining and measuring work, eliminating waste, and engaging employees. _Credit Hours: 2 hrs

QUAL 590 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 591 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 592 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

QUAL 597 - Independent Study

Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 598 - Independent Study

Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 599 - Independent Study

Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 639 - Continuous Enrollment

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

QUAL 647 - Research Methods

This course prepares students for conducting development projects and theses, and for objectively investigating problems in industry. It is a study of basic and applied research processes employing qualitative and quantitative methods. Students will critique research articles and progress toward developing a research proposal. _Credit Hours: 2 hrs

QUAL 651 - Advanced Design of Experiments

Advanced design and analysis of experiments to improve product or process quality. There is a strong emphasis on computer methods, modeling techniques and various response optimization methods. Extensive use will be made of commercially available statistical software to analyze all course topics. _Credit Hours: 2 hrs _Prerequisites: QUAL551

QUAL 652 - Experimental Data Analysis

This course includes modeling of large field (happenstance) data sets using: logistic regression; time series analysis; model validation; contingency tables; canonical correlation; discriminant analysis; collinear data analysis; cluster analysis; and nonlinear regression. _Credit Hours: 2 hrs _Prerequisites: QUAL651
QUAL 655 - Technical Six Sigma
Course content will focus on the application and use of practical problem solving tools and data interpretation to reduce manufacturing costs, variation, defects and cycle time, and to improve yield and quality through waste elimination. Knowledge of basic statistics, statistical process control and design of experiments is recommended. Restricted to students in the MS Quality Management program. _Credit Hours: 2 hrs _Prerequisites: QUAL548 and QUAL551

QUAL 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

QUAL 689 - Industrial Internship
A field study of industrial theory and practice through internship experiences with cooperating industries. Designed for students desiring experiences beyond those obtained in their previous or present employment. _Credit Hours: 2 hrs _When Offered: Offered on a credit/no-credit basis.

QUAL 690 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 1 hr _Prerequisites: Must be degree admit. Must have completed 12 semester hours in core with minimum 3.0 GPA and completed QUAL647 with a grade of B or better. Must not be on academic probation.

QUAL 691 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 2 hrs _Prerequisites: Must be degree admit. Must have completed 12 semester hours in core with minimum 3.0 GPA and completed QUAL647 with a grade of B or better. Must not be on academic probation.

QUAL 692 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 3 hrs _Prerequisites: EDPS 322 Human Development and admission to the College of Education.

QUAL 693 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 694 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 695 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 3 hrs _Prerequisites: department permission

QUAL 696 - Development Project/Thesis
Development project: a theory application project conducted under the supervision of an adviser and departmental graduate committee. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 697 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 1 hr _Prerequisites: department permission

QUAL 698 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 2 hrs _Prerequisites: department permission

QUAL 699 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" and "Research Proposal Format" guideline sheets are available from the department. _Credit Hours: 3 hrs _Prerequisites: department permission

Reading

RDNG 300 - Early Literacy
A concentration on the developmental aspects of literacy learning from birth to eight years old. Involves theoretical and research knowledge pertinent to child growth and development. _Credit Hours: 3 hrs _Prerequisites: EDPS 322 Human Development and admission to the College of Education.

RDNG 310 - Literacy Across the Curriculum in the Intermediate Grades
This course focuses on the developmental aspects of literacy processes in the intermediate grades. Emphasis will be placed on theory and research and their application to literacy instruction across all content areas. Field based experiences are included in the corequisite FETE401. Required of students seeking elementary certification. _Credit Hours: 3 hrs _Prerequisites: CURR304 and RDNG300 __
RDNG 311 - Teaching Reading in the Secondary School
The developmental sequence for reading skills at the junior and senior high school levels and methods for teaching the sequence, including teaching programs for all students. Providing reading instruction within the context of the various areas. Required for all students who seek certification to teach in secondary schools. __Credit Hours: 3 hrs __Repeatable: Repeateable: May be repeated for credit.

RDNG 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1 hr __Repeatable: May be repeated for credit.

RDNG 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 3 hrs __Repeatable: May be repeated for credit.

RDNG 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 2 hrs __Repeatable: May be repeated for credit.

RDNG 503 - Meeting Individual Needs in Elementary Literacy Education: MDE Certification Renewal
Informal and formal literacy assessments are examined and applied to evaluate all K-8 students, especially struggling ELL readers. Students use results to plan instruction. A case study based on fieldwork is required. __Credit Hours: 3 hrs __Prerequisites: must be a certified elementary teacher

Secondary Literacy Education: MDE Certification Renewal
Informal and formal assessments are examine and applied to evaluate 6-12 students' literacy: attitudes and behaviors, purposes for reading and writing and comprehension processes; especially struggling ELL readers. Students use results to plan instruction. A case study based on fieldwork is required. __Credit Hours: 3 hrs __Prerequisites: must be a certified secondary teacher

RDNG 506 - Storytelling
Applying techniques storytellers use to research, prepare, learn and master a story, participants will tell a variety of different types of stories, using an array of presentation formats. Students will also prepare a collection of storytelling/language arts activities appropriate for various grade levels. __Credit Hours: 2 hrs

RDNG 514 - Literature for Young Adults
Young-adult literature (grades 7-12) will be surveyed. Students will consider teaching approaches that integrate young-adult literature into the secondary curriculum, and processes for choosing appropriate literature. Current theory and research regarding the psychological, sociological and legal issues pertaining to the use of young-adult literature will be discussed. __Credit Hours: 2 hrs

RDNG 518 - Developmental Reading — Elementary
Objectives, approaches, materials and techniques for reading in the elementary school classroom. Factors influencing development, fundamental skills, and assessing and providing for individual strengths and needs. Not open to reading majors. __Credit Hours: 2 hrs

RDNG 530 - Developmental Reading — Secondary
Curricular objectives and their implementation through recommended activities, methods and materials; functional programs for disabled readers. __Credit Hours: 2 hrs

RDNG 531 - Word Study for the Reading Teacher
Using language theory as a basis, students will explore the various aspects of word study: phonemic awareness, phonics, vocabulary, dictionary skills and spelling. Using literature and other texts, they will develop techniques/strategies for teaching word study in grades K-12. __Credit Hours: 3 hrs

RDNG 550 - Biographies, Trade Books, and Writing Across the K-12 Science and Mathematics Curriculum
The course promotes interest and achievement in the content areas by including trade books and biographies into K-12 science and mathematics instruction. The course promotes the benefits of writing in nontraditional forms. __Credit Hours: 3 hrs

RDNG 580 - Reading-Writing Connection: K-6
This course is designed to provide teachers opportunities to expand their knowledge of reading instruction to a more integrated approach which interfaces reading, writing and subject areas. __Credit Hours: 2 hrs

RDNG 583 - Promoting Literacy with Computer Technology
Teachers explore research on the use of computers to develop student literacy, investigate curricular implications for integrating computers with literacy instruction and examine management and evaluation procedures in the computer environment. __Credit Hours: 2 hrs

RDNG 586 - A Writer’s Camp in Action:
RDNG 588 - Fostering Literacy: A Holistic Approach
This course is designed to explore theoretical foundations of holistic language instruction, to investigate curricula implications for holistic literacy instruction, and to evaluate formal/informal assessment procedures in holistic literacy programs. __Credit Hours: 2 hrs

RDNG 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 1 hr __Prerequisites: department permission

RDNG 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 2 hrs __Prerequisites: department permission

RDNG 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. __Credit Hours: 3 hrs __Prerequisites: department permission

RDNG 593 - Microcomputer Applications in Reading Instruction
Participants will evaluate software for reading/language arts, including programs for drill and practice, tutorials, simulations, diagnosis and prescription, word processing and management. Suggestions for developing units about computers in society will be included. __Credit Hours: 2 hrs

RDNG 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

RDNG 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

RDNG 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

RDNG 630 - Literacy Instruction in a Multilingual Society
Exploring research and classroom based literature on second language reading and language instruction, students will develop knowledge about educational policies and instructional approaches which foster literacy (reading, writing, speaking, listening, viewing and visually representing) for English language learners. __Credit Hours: 3 hrs

RDNG 632 - Literacy Education in Urban Settings
Examining research and classroom based literature education in urban settings, students will develop knowledge about educational policies and instructional approaches which foster literacy (reading, writing, speaking, listening, viewing and visually representing) achievement in K-12 urban settings. __Credit Hours: 3 hrs __Prerequisites: CURR652; CURR653; students admitted to the College of Education and enrolled in the Masters in Urban/Diversity Education program only

RDNG 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr __Prerequisites: department permission __Notes: Credit will not apply toward degree completion. __When Offered: Offered on a credit/no-credit basis.

RDNG 655 - The Integrated Literacy Curriculum
This course provides teachers an opportunity to learn how to integrate speaking, listening, reading, viewing and visual representing with content area instruction using children’s and young adults’ literature. __Credit Hours: 3 hrs

RDNG 656 - Language Development, Literacy and the Young Child
A concentration on the developmental aspects of language learning and its relationship to emergent reading. Includes theoretical and research knowledge pertinent to child growth and development. __Credit Hours: 3 hrs

RDNG 657 - Comprehension and the Content Areas
Through a survey of comprehension theories which impact literacy instruction, students will develop reading techniques and strategies that support student learning in the content areas. __Credit Hours: 3 hrs

RDNG 658 - Reading and Writing and the Inquiry Process
This course provides teachers an opportunity to: (1) explore research on the relationship between the reading and writing processes and (2) determine ways to use the inquiry process with reading and writing across the content areas. Additionally, the course
examines classroom management and evaluation procedures. _Credit Hours: 3 hrs

RDNG 660 - Foundations of Literacy: Research and Theory
The focus of this course is history, theory and research in literacy education. The impact of these issues on classroom practices will be examined. _Credit Hours: 3 hrs _Prerequisites: RDNG655, RDNG656, RDNG657 and RDNG658

RDNG 664 - The Nature of Common Reading Problems
Problems of underachievement: weaknesses and deficiencies in attitudes, comprehension, work recognition and facility and flexibility in silent and oral reading, physical, psychological, environmental and educational factors. _Credit Hours: 2 hrs _Notes: Not open to reading majors.

RDNG 672 - Practicum I: Literacy Assessment
This course will survey formal and informal procedures used to identify, evaluate and remediate reading disabilities and to plan instruction in a classroom or clinical setting. Students will examine current group and individual reading assessments and prepare case studies and recommendations for teachers and families. _Credit Hours: 3 hrs _Prerequisites: RDNG655, RDNG656, RDNG657 and RDNG658

RDNG 673 - Practicum II: Designing Literacy Intervention Programs
This course provides models of intervention programs for struggling readers at the individual and school-wide level. Characteristics of successful intervention programs and grant guidelines will be studied. A clinical practicum targeting struggling readers is included. _Credit Hours: 3 hrs _Prerequisites: RDNG655, RDNG656, RDNG657, RDNG658 and RDNG678

RDNG 674 - Practicum III: The Literary Coach
This course is a practicum focused on coaching classroom teachers and paraprofessionals in the development of appropriate programs for struggling readers. Students will examine models of coaching/mentoring at the individual and team level. They will learn modeling, mentoring, observing and conferencing procedures. _Credit Hours: 3 hrs _Prerequisites: RDNG660 and RDNG686

RDNG 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. _Credit Hours: 1 hr

RDNG 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. _Credit Hours: 2 hrs

RDNG 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered. _Credit Hours: 3 hrs

RDNG 682 - Workshop in Reading
Please examine the current time schedule for specific workshop topics. Among those offered in the past: Providing for Individual Differences in Reading. _Credit Hours: 1 hr _Prerequisites: RDNG678

RDNG 683 - Workshop in Reading
Please examine the current time schedule for specific workshop topics. Among those offered in the past: Providing for Individual Differences in Reading. _Credit Hours: 2 hrs

RDNG 684 - Workshop in Reading
Please examine the current time schedule for specific workshop topics. Among those offered in the past: Providing for Individual Differences in Reading. _Credit Hours: 3 hrs

RDNG 685 - Workshop in Reading
Please examine the current time schedule for specific workshop topics. Among those offered in the past: Providing for Individual Differences in Reading. _Credit Hours: 4 hrs

RDNG 687 - Practicum in Reading
Opportunities to work with community children demonstrating reading difficulties. Under supervision, students will engage in the diagnosis, analysis and treatment of various reading disabilities; maintaining a professional relationship with their clients, their clients' families and associated schools or agencies. Ongoing study of current procedures in the analysis of reading performance critical to systematic diagnosis and prescription. _Credit Hours: 2 hrs _Prerequisites: RDNG678

RDNG 688 - Practicum in Reading
Opportunities to work with community children demonstrating reading difficulties. Under supervision, students will engage in the diagnosis, analysis and treatment of various reading disabilities; maintaining a professional relationship with their clients, their clients' families and associated schools or agencies. Ongoing study of current procedures in the analysis of reading performance critical to systematic diagnosis and prescription. _Credit Hours: 3 hrs _Prerequisites: RDNG678

RDNG 690 - Thesis
Credit Hours: 1 hr _Prerequisites: department permission

RDNG 691 - Thesis
Credit Hours: 2 hrs _Prerequisites: department permission
RDNG 692 - Thesis  
Credit Hours: 3 hrs  
Prerequisites: department permission

RDNG 693 - Seminar in Reading  
A research-oriented course for graduate majors.  
Credit Hours: 1 hr  
Prerequisites: department permission

RDNG 694 - Seminar: Current Issues in Reading  
The seminar is a culminating course in the graduate reading concentration. Current trends in reading research, critical examination of selected research studies and investigations, self-evaluations of professional needs, and interests in reading are included.  
Credit Hours: 2 hrs  
Prerequisites: RDNG678

RDNG 695 - Seminar: The Reading Professional  
This course is designed to be the culminating experience for students seeking a master’s in reading. Students will examine the processes of staff development, grant writing, community outreach and action researcher from the perspective of the reading professional. They will develop a final project based on their needs and interests.  
Credit Hours: 3 hrs  
Prerequisites: EDPS 677 or EDPS 687  
Prerequisite/Corequisite: RDNG686

RDNG 696 - Seminar in Reading  
A research-oriented course for graduate majors.  
Credit Hours: 4 hrs  
Prerequisites: department permission

RDNG 697 - Independent Study  
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. Must be done with approval of a full-time member of the staff.  
Credit Hours: 1 hr

RDNG 698 - Independent Study  
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. Must be done with approval of a full-time member of the staff.  
Credit Hours: 2 hrs

RDNG 699 - Independent Study  
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. Must be done with approval of a full-time member of the staff.  
Credit Hours: 3 hrs

Recreation

RECR 590 - Special Topics  
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered.  
Credit Hours: 1 hr  
Prerequisites: department permission

RECR 591 - Special Topics  
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered.  
Credit Hours: 2 hrs  
Prerequisites: department permission

RECR 592 - Special Topics  
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered.  
Credit Hours: 3 hrs  
Prerequisites: department permission

RECR 597 - Independent Study  
An intensive study of a problem or group of problems under the direction of a University faculty member.  
Credit Hours: 1 hr  
Prerequisites: department permission

RECR 598 - Independent Study  
An intensive study of a problem or group of problems under the direction of a University faculty member.  
Credit Hours: 2 hrs  
Prerequisites: department permission

RECR 599 - Independent Study  
An intensive study of a problem or group of problems under the direction of a University faculty member.  
Credit Hours: 3 hrs  
Prerequisites: department permission

RECR 639 - Continuous Enrollment  
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources.  
Credit Hours: 1 hr  
Prerequisites: department permission  
Notes: Credit will not apply toward degree completion.  
When Offered: Offered on a credit/no-credit basis

RECR 679 - Special Topics  
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered.  
Credit Hours: 1 hr

RECR 680 - Special Topics  
An experimental course for subject matter not provided in other departmental offerings. Subject matter will change from semester to semester. Students may elect this course more than once, provided different topics are covered.  
Credit Hours: 2 hrs

RECR 681 - Special Topics
An intensive study of a problem or group of problems. The completed study must give evidence of the student’s ability to select a problem and set it up and pursue it to satisfactory completion. Must be done with approval of a full-time member of the staff. __Credit Hours: 1 hr

SCM 614 - Information Technology for Supply Chain Management
The purpose of this course is to discuss knowledge and skills in information technology for supply chain management. Major topics include electronic data interchange (EDI), enterprise resource planning (ERP), B2B e-commerce, network and telecommunication infrastructure for SCM, and data warehouse applications in SCM. Hands-on exercises in an ERP system may be included in this course. __Credit Hours: 3 hrs

SCM 618 - Logistics in the Supply Chain
Analysis of the operational challenges involved in developing and implementing a firm’s logistics strategy. Emphasis will be placed on logistics as a value-adding process and the integration of logistics with other business processes. Use of analytical tools such as SAP for making decisions regarding site selection, production, inventory, and transportation. __Credit Hours: 3 hrs _Prerequisites: MKTG510

SCM 622 - Customer Relationship Management
This course provides the fundamental concepts in customer relationship management. Topics include understanding the total customer experience, CRM planning, e-customer service, best practices, call center management, data warehousing, ERP, Internet CRM integration, customer value and retention, interrelationship selling and partner relationship management. __Credit Hours: 3 hrs _Prerequisites: MKTG510

SMGT 502 - Introduction to Sport Management
This course is an introduction to the field of sport management/athletic administration. The course will survey topics such as staffing, facilities, equipment, and public relations. All students in the course will be required to plan and attend an athletic event. _When Offered: Offered on a credit/no-credit basis.

SCM 624 - Operations Planning and Scheduling in Supply Chain
This course focuses on the integration of operations planning and scheduling for multiple organizations in a supply chain. Topics include: production strategy (make-to-stock, assemble-to-order, etc.), demand management master scheduling, material and resource requirements planning, e-procurement, capacity management, inventory management and shop floor control. Hands-on computer exercises (using ERP) are included. __Credit Hours: 3 hrs _Prerequisites: SCM611

SCM 628 - Purchasing/Outsourcing & Quality
Provides students with an understanding of operational and strategic issues related to purchasing, outsourcing and quality in the supply chain. Emphasis is placed on how purchasing strategy enhances customer value through efficient acquisition of raw materials and supplies. Buyer-supplier relationships and quality control/improvement tools and techniques are discussed. __Credit Hours: 3 hrs _Prerequisites: MKTG510 and OM503

SMGT 511 - NCAA Compliance
This course introduces students to basic compliance principles and the NCAA rules that affect the management of a college athletic department. This course offers an understanding of the structure and function of a Division I compliance operation. The governing principles of institutional control and ethical conduct will be explored from a compliance perspective. __Credit Hours: 3 hrs
SMGT 560 - Ethics in Sport Management
The purpose of this course is to provide students with an opportunity to reflect on and discuss ethical concerns in physical education and athletics. Topics will include ergogenic aids, competition vs. cooperation, commercialization, and youth sport. __Credit Hours: 3 hrs

SMGT 562 - Facility Planning and Development
This course provides the students with an examination of the functions of planning, management, evaluation, maintenance, operations, and situational analysis as they relate to facility management in physical education, athletics, and recreation. Students will visit off-campus facilities. __Credit Hours: 3 hrs

SMGT 564 - Planning and Promoting Events in Physical Education and Sport
Topics and issues involved in the planning and promotion of sporting events. Examples include (but are not limited to) high school and collegiate athletics. __Credit Hours: 3 hrs

SMGT 566 - Financial Administration of Physical Education and Athletics
Principles and factors involved in the fiscal management of athletics/sports programs. Addresses budgeting, purchasing, operational procedures, and risk management. __Credit Hours: 3 hrs

SMGT 568 - Human Resources for Physical Education and Sport
Study of administrative problems particular to physical education and sport. Topics include volunteers, leadership and job design as related to sport administration. __Credit Hours: 3 hrs

SMGT 590 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SMGT 591 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SMGT 592 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SMGT 597 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SMGT 598 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SMGT 599 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

SMGT 639 - Continuous Enrollment
Credit Hours: 1 hr __Prerequisites: department permission __Notes: Credit will not apply toward degree completion. __When Offered: Offered on a credit/no-credit basis.

SMGT 679 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SMGT 680 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SMGT 681 - Special Topics
Experimental course(s) designed to investigate specific topics of concern in the specialization areas of study in sports management. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SMGT 697 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SMGT 698 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SMGT 699 - Independent Study
An intensive study of a problem under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

SOCL 250 - Quantitative Applications in Sociology
Introduction to the evaluation and interpretation of numerical and categorical data using descriptive and inferential
**SOCL 402 - Group Dynamics**
Structure and interaction processes of small groups. Cohesiveness, group standards, conformity and deviance, leadership, group emotion, communication, group roles and sociometrics. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 403 - Modern Sociological Theory**
The rise and development of sociological thought from Comte to the present. The works of various European and American schools analyzed and critically appraised in terms of their value in empirical research. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 405 - Senior Seminar in Sociology**
The purpose of this course is to integrate sociological knowledge, theory and methods, and relate them to applications within the student's discipline and profession. __Credit Hours: 3 hrs  _Prerequisites: SOCL105; senior standing  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 412 - Law and Society**
Law as a social and cultural product; the interrelationships between law and social institutions. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Cross-listed: This course is cross-listed with CRM412  _Notes: Not open to those with credit in CRM412; This is an undergraduate course available for graduate credit.

**SOCL 440 - Sociology of Technology**
A study of social factors involved in the creation, innovation, distribution, evaluation and social effects of technology. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 448 - Collective Behavior**
Spontaneous, transitory and volatile collective behavior contrasted with the relatively stable, institutionalized patterns of interaction. Analysis of rumor transmission, crowd behavior, mass behavior, and the emergence of organized social movements. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 450 - The Family**
The family as a basic social institution. Various types of family systems throughout the world with special emphasis on the American family. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 451 - Sociology of Work and Occupations**
Social aspects of work. Recruitment, career patterns, professionalization, sociology of the workplace and labor force. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 462 - Complex Organizations**
An examination of several types of large organizations, with emphasis on the nature of bureaucratic organizations. Theoretical and empirical studies of organizational growth, recruitment, control and relations between organizations. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 465 - Sociology of Revolution**
This course surveys major theoretical perspectives that have been used by social scientists to interpret and explain revolutions. With the aid of the best available theories, the course will examine a series of historical instances, ranging from the French Revolution of the 18th century, through the Russian and Chinese Revolutions, to recent revolutions in post-colonial or dependent countries, such as the Iranian Revolution. __Credit Hours: 3 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 478 - Special Topics**
A single topic is covered each semester, selected as interest and/or problems change. Students may elect this course several times, provided different topics are studied, but only twice for credit toward a major or minor in sociology. __Credit Hours: 2 hrs  _Prerequisites: SOCL105  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 487 - Cooperative Education in Sociology**
Practical experience in industrial, business, or government settings to provide job skills. __Credit Hours: 3 hrs  _Prerequisites: SOCL387/CRM387  _Notes: This is an undergraduate course available for graduate credit.

**SOCL 500 - Man in Society**
Basic concepts, theory and analysis of social structures, social process and social disorganization. Not open to students with credit in SOCL105. __Credit Hours: 2 hrs  _Notes: Graduate students not majoring in sociology, but desiring a cognate in the department may elect courses SOCL500-509 for cognate credit, in consultation with their advisers.

**SOCL 502 - Racial and Cultural Minorities**
Racial and cultural minorities in the modern world, with particular reference to African Americans and to European and Asian immigrants in the United States; racial myths, doctrines and movements; conflict and accommodation of majority and minority peoples; proposed solutions of ethnic problems. __Credit Hours: 3 hrs  _Cross-listed: This course is cross-listed with ANTH502  _Notes: Not open to students with credit in SOCL214/ANTH214
The development of deviant self-conceptions; social psychological processes of group alienation and individual estrangement. Deviant behavior patterns and the development of deviant careers; theories of deviance. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with CRM513.

SOCL 515 - Sociology of Women
The course examines the changing role of women in American institutions, especially in the world of work and in the family. Materials on minority and working-class women will be included. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with WGST515.

SOCL 522 - Globalization: Race/Ethnicity, Class and Gender
This course provides critical perspectives on the globalization process with race/ethnicity, class, and gender as the central themes. Topics may include: theoretical issues pertaining to the study of globalization; production and reproduction in the global economy; paid and unpaid labor and its relationship to globalization; development experience in East Asia and Russia; alternatives to corporate globalization; the reclaiming of the "commons"; global environmental issues raised by the consideration of race/ethnicity, class, and gender. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with WGST522/ANTH522.

SOCL 560 - Domestic Violence and Sexual Assault
A comprehensive study of the physical, sexual and emotional abuse that disproportionately affects women. Topics include theories of violence and intervention strategies. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with CRM560 and WGST560.

SOCL 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SOCL 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SOCL 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SOCL 597 - Independent Study
Intensive study of a sociological problem or theory, supervised by a member of the sociology faculty. __Credit Hours: 1 hr _Prerequisites: department permission

SOCL 598 - Independent Study
Intensive study of a sociological problem or theory, supervised by a member of the sociology faculty. __Credit Hours: 2 hrs _Prerequisites: department permission

SOCL 599 - Independent Study
Intensive study of a sociological problem or theory, supervised by a member of the sociology faculty. __Credit Hours: 3 hrs _Prerequisites: department permission

SOCL 630 - Advanced Social Statistics
This course will focus considerable attention on nonparametric statistics and will examine the problem of controlling for variables in a statistical sense. Certain classical techniques
of multivariate analysis will be included. __Credit Hours: 3 hrs

SOCL 636 - Qualitative Analysis
An examination of the methods and techniques of qualitative analysis in sociology. Research will be conducted by class members and reviewed in seminar presentations. __Credit Hours: 3 hrs

SOCL 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SOCL 640 - Advanced Sociological Theory
An analysis of contemporary theoretical schools of thought in sociology. __Credit Hours: 3 hrs

SOCL 641 - Theory Construction and Verification
Analysis of contemporary strategies in theory, construction and verification. Problems of validity and reliability will be emphasized. __Credit Hours: 3 hrs

SOCL 642 - Social Stratification Theory and Research
A comprehensive study of the theories of social stratification, an examination of the problems encountered in attempts at empirical verification of these theories, and an exploration of current research relating to social stratification. __Credit Hours: 3 hrs

SOCL 643 - Organizations and Networks
How organizations are created and changed as they struggle to achieve their goals.

Theoretical readings and case studies on organizational and inter-organizational dynamics provide theoretical and practical knowledge for students. __Credit Hours: 3 hrs

SOCL 646 - Research in Family Interaction
Review of research on family interaction, with particular emphasis on experimental observational studies; power structure role differentiation, communication patterns and coalition formation. __Credit Hours: 3 hrs

SOCL 647 - Contemporary Community Structure
Theoretical perspectives in the analysis of urban communities, including urban change, the development of stratification patterns and power structures, and the role of various urban institutions. __Credit Hours: 3 hrs

SOCL 656 - Human Ecology and Community Development
An analysis of the forms and development of the urban community; spatial and temporal patterns, organization of urban functions, rural-urban relationships and the current metropolitan trend in the United States. __Credit Hours: 3 hrs

SOCL 662 - Supervised Field Experience
Supervised internship in a community agency such as a correctional institution, enforcement agency, human relations committee or city planning agency, or in a project for the rehabilitation of persons in culturally or economically deprived segments of the community. Students are ordinarily placed for two consecutive semesters. __Credit Hours: 2 hrs _Prerequisites: department permission

SOCL 677 - Advanced Methods in Sociological Research
Relationship of theory and research is stressed; consideration of the research process as a decision-making situation both on the general level of research design and the specific level of special techniques; the

SOCL 678 - Methods in Social Program Evaluation
The course is designed to train students in strategies, techniques and issues in social program evaluation. It is concerned both with the design of program evaluations and with their implementation in various social settings. __Credit Hours: 3 hrs

SOCL 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SOCL 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SOCL 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SOCL 688 - Cooperative Education
Practical experience in business, industrial or governmental settings that provide job skills. __Credit Hours: 3 hrs _Prerequisites: degree admission; department permission
SOCL 690 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 1 hr __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

SOCL 691 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 2 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

SOCL 692 - Thesis
Completion of research and/or analytical problem, writing of thesis and committee approval of same. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

SOCL 694 - Seminar in Sociology
The intensive exploration of theoretical and methodological issues in a selected area of sociology. The topic will be announced in the class schedule issued prior to registration. __Credit Hours: 2 hrs

SOCL 695 - Program Evaluation Skills Development Seminar
This course offers experience applying the strategies and techniques of evaluation research to specific contexts. Students are apprenticed to University institutes to assist project directors in conducting specific researches. __Credit Hours: 3 hrs __Prerequisites: SOCL678

SOCL 696 - Independent Study
Intensive study of a sociological problem or theory, supervised by a member of the sociology faculty. __Credit Hours: 2 hrs __Prerequisites: department permission

SOCL 699 - Independent Study
Intensive study of a sociological problem or theory, supervised by a member of the sociology faculty. __Credit Hours: 3 hrs __Prerequisites: department permission

Social Foundations

SOFD 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs __Repeatable: May be repeated for credit.

SOFD 530 - Social Foundations of Education: An Introduction
This course illustrates the uses and applications of the different disciplines in social foundations (e.g., anthropology of education, sociology of education and comparative education) as frameworks for researching problems confronting schools as major social institutions. __Credit Hours: 2 hrs

SOFD 535 - Multicultural and International Education
Designed to provide multicultural and international perspectives to the continuing debates on reform of education in a democratic society. Emphasis is placed on what multicultural education should be and its place in the curriculum. __Credit Hours: 2 hrs

SOFD 540 - Field Studies in Education
On-site investigations of selected aspects of education and society. Field-based research may be done in the United States or other countries. Students may elect this course several times, provided different topics are covered. Not more than four hours may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: a graduate course in SOFD and consent of the instructor

SOFD 541 - Field Studies in Education
On-site investigations of selected aspects of education and society. Field-based research may be done in the United States or other countries. Students may elect this course several times, provided different topics are covered. Not more than four hours may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: a graduate course in SOFD and consent of the instructor

SOFD 542 - Field Studies in Education
On-site investigations of selected aspects of education and society. Field-based research may be done in the United States or other countries. Students may elect this course several times, provided different topics are covered. Not more than four hours may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: a graduate course in SOFD and consent of the instructor

SOFD 550 - Philosophy, Ethics and Teaching
Application of philosophical methods of analysis to specific ethical problems facing teachers in preschool, elementary and secondary schools. Students will investigate various ethical frameworks and critically examine, by means of case studies, controversial educational issues. __Credit Hours: 2 hrs

SOFD 560 - Anthropology of Education
Educational patterns and policies are examined from a cross-cultural perspective. Concepts and methods of cultural anthropology are used to analyze problems of quality and equity in education. __Credit Hours: 2 hrs

SOFD 570 - Women and Pedagogy: Life Histories
An interpretive analysis of the life histories of major women teacher educators will assess how conceptions of their moral and political identity translated into their pedagogy and purpose for education. Included is a focus on
life history as a research method. **Credit Hours:** 3 hrs

**SOFD 572 - The History of American Schooling and Literacy**

Drawing on a variety of sources from historical narrative and historiography, the course provides a context for interpreting the conflicting aims of literacy and education in the United States. **Credit Hours:** 3 hrs

**SOFD 573 - Black Experience and American Education**

The role of African Americans in the development of the United States. The course is designed to help teachers to understand the cultural, economic and political contributions of African Americans and to develop materials to be used in their courses at both elementary and secondary schools. **Credit Hours:** 2 hrs

**SOFD 580 - Sociology of Education**

This course introduces various sociological perspectives to analyze the relation of schooling to the social construction of race, class, gender and sexuality in a socially stratified society. Special attention is placed on teachers' responsibilities and skills as classroom practitioners, child advocates and community leaders in a culturally diverse democratic society. **Credit Hours:** 2 hrs

**SOFD 599 - Independent Study**

An intensive study of a problem or theory, supervised by a faculty member in social foundations of education. **Credit Hours:** 2 hrs _Prerequisites: graduate SOFD course and instructor permission

**SOFD 600 - Teaching for Social and Ecological Justice**

An advanced course creating bridges between critical and social theories and pedagogical practices leading to democratic, socially and ecologically just communities. The theoretical foundations of multicultural education, critical and feminist pedagogies, eco-justice pedagogy, and service learning are examined. Some preparation in critical social theory required. **Credit Hours:** 3 hrs _Prerequisites: a graduate-level course in SOFD or women's studies. Cross-listed: This course is cross-listed with CURR654.

**SOFD 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. **Credit Hours:** 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

**SOFD 660 - Teaching for Social and Ecological Justice**

This course provides a critical framework in which to examine and develop skills and understandings necessary for teaching in a multicultural world. **Credit Hours:** 3 hrs _Cross-listed: This course is cross-listed with CURR654.

**SOFD 661 - EcoJustice and Education**

This course examines the cultural roots of ecological degradation, and the impact of specific ideological and structural formations upon both human communities and the
natural world. Specific attention is given to the ethical consequences of ecojustice perspectives for teacher education, curriculum reform and citizenship education. __Credit Hours: 3 hrs

SOFD 679 - Special Topics
A study of selected issues in social foundations of education. Topics may vary from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SOFD 680 - Special Topics
A study of selected issues in social foundations of education. Topics may vary from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SOFD 681 - Special Topics
A study of selected issues in social foundations of education. Topics may vary from semester to semester. Students may elect this course several times, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SOFD 682 - Workshop in Social Foundations
Focuses on providing practical assistance for teachers and school administrators in developing a variety of teaching resources and methods on such themes as racism and education, human relations and multicultural education. Site-based decision-making, student-faculty planning and cooperative learning are illustrated and used extensively in workshops. May be elected more than once. Not more than four hours may be used on a degree program. __Credit Hours: 4 hrs

SOFD 683 - Workshop in Social Foundations
Focuses on providing practical assistance for teachers and school administrators in developing a variety of teaching resources and methods on such themes as racism and education, human relations and multicultural education. Site-based decision-making, student-faculty planning and cooperative learning are illustrated and used extensively in workshops. May be elected more than once. Not more than four hours may be used on a degree program. __Credit Hours: 1 hr

SOFD 684 - Workshop in Social Foundations
Focuses on providing practical assistance for teachers and school administrators in developing a variety of teaching resources and methods on such themes as racism and education, human relations and multicultural education. Site-based decision-making, student-faculty planning and cooperative learning are illustrated and used extensively in workshops. May be elected more than once. Not more than four hours may be used on a degree program. __Credit Hours: 2 hrs

SOFD 685 - Workshop in Social Foundations
Focuses on providing practical assistance for teachers and school administrators in developing a variety of teaching resources and methods on such themes as racism and education, human relations and multicultural education. Site-based decision-making, student-faculty planning and cooperative learning are illustrated and used extensively in workshops. May be elected more than once. Not more than four hours may be used on a degree program. __Credit Hours: 3 hrs

SOFD 686 - Workshop in Social Foundations
Focuses on providing practical assistance for teachers and school administrators in developing a variety of teaching resources and methods on such themes as racism and education, human relations and multicultural education. Site-based decision-making, student-faculty planning and cooperative learning are illustrated and used extensively in workshops. May be elected more than once. Not more than four hours may be used on a degree program. __Credit Hours: 1 hr

SOFD 687 - Culminating Project
Significant applied project designed and completed by the student as an independent culminating experience under the direction of a chair and committee. __Credit Hours: 3 hrs __Prerequisites: 24 hours of completed coursework in program, department and adviser permission

SOFD 690 - Thesis
Significant research or critical study designed and completed by the student under the direction of a thesis director and thesis committee. Not more than two hours of thesis credit may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

SOFD 691 - Thesis
Significant research or critical study designed and completed by the student under the direction of a thesis director and thesis committee. Not more than two hours of thesis credit may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

SOFD 692 - Thesis
Significant research or critical study designed and completed by the student under the direction of a thesis director and thesis committee. Not more than two hours of thesis credit may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

SOFD 694 - Advanced Seminar
This seminar is required of all social foundations master’s students to help identify appropriate topics for theses and culminating projects. Seminar discussion will focus on the development and evaluation of research proposals designed by students. __Credit Hours: 2 hrs __When Offered: Offered on a credit/no-credit basis.

SOFD 696 - Advanced Seminar
This seminar is required of all social foundations master’s students to help identify appropriate topics for theses and culminating projects. Seminar discussion will focus on the development and evaluation of research proposals designed by students. __Credit Hours: 2 hrs __When Offered: Offered on a credit/no-credit basis.

SOFD 697 - Independent Study
An intensive study of a problem or theory, supervised by a faculty member in social foundations of education. __Credit Hours: 1 hr __Prerequisites: department permission
This course examines the critical relationship role of the family in the assessment and learning of each intervention. Students will understand and implementing effective intervention process will also be explored. The course will create a framework for intervention models, formal and informal theories on etiology, evidence based assessment and its impact on schools. __Credit Hours: 3 hrs __Prerequisites: departmental permission

SPAI 620 - Dimensions of Autism Spectrum Disorders (ASD)
The focus of this course will be to introduce students to information and literature regarding characteristics of ASD and Aspergers Syndrome (AS), its prevalence, theories on etiology, evidence based intervention models, formal and informal models of assessment and its impact on schools. __Credit Hours: 3 hrs __Prerequisites: departmental permission

SPAI 630 - Issues in Assessment and Interventions in Autism Spectrum Disorders (ASD)
This course will highlight research regarding ASD, diagnostic criteria used to identify persons with ASD, assessment and interventions that are Evidence Based. The role of the family in the assessment and intervention process will also be explored. The course will create a framework for understanding and implementing effective interventions, profiling the strengths and challenges of each intervention. Students will learn the need for collaborative, family-centered approaches to assessment and interventions. __Credit Hours: 3 hrs __Prerequisites: departmental permission

SPAI 645 - Curriculum and Instructional Strategies in ASD
Identification of best practices in curriculum design, instructional strategies and techniques are the pivotal components of this course. Students will investigate Universal Design for Learning (UDL) and will develop curricular framework which support the unique learning styles of students with ASD and which permit students the greatest access to education within inclusive settings. __Credit Hours: 3 hrs __Prerequisites: departmental permission

SPAI 650 - Visual Supports and Literacy in ASD
Participants will demonstrate how the learning, communication, socialization skills and behavioral challenges of students with ASD can be addressed through the use of visual supports and other forms of literacy. Students will understand the relationship between unsupported learning for students with ASD and learn to use visual schedules and other forms of visual support. __Credit Hours: 3 hrs __Prerequisites: departmental permission

SPAI 660 - ASD and the Sensory Process
This course will examine the issues of sensory processing that impacts behavior and performance in persons with ASD, including their personal stories. The underlying neural substrates that impact regulation and reactivity to stimuli will be explored. Sensory based strategies that support participation and engagement will be discussed. __Credit Hours: 2 hrs __Prerequisites: departmental permission

Cognitive Impairment

SPCI 240 - Preclinical Experiences — Cognitive Impairment
This introductory course provides exposure to and experience with K-12 students with cognitive impairment. EMU students will be encouraged to evaluate and examine their motivation to become a teacher of students with cognitive impairment, and will be introduced to all aspects of the teaching profession. In this course students will participate in field experiences with K-12 students with cognitive impairment. __Credit Hours: 3 hrs

SPCI 429 - Education of Students in Programs for Mild Cognitive Impairment
Philosophy of education, curriculum, assessment, teaching methods and classroom management techniques for students with mild cognitive impairment across the K-12 spectrum. A three-hour per week field experience is an integral component of the course. __Credit Hours: 4 hrs __Prerequisites: SPCI240, SPCI350 and admission to the teacher education program __Notes: This is an undergraduate course available for graduate credit.
available for graduate credit.

SPCI 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. _Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

SPCI 557 - Cognitive Impairment Theory
This course introduces students to the field of cognitive impairments and related developmental disabilities from perspectives of different systems. Focus is on the medical, historical, political, educational and adult systems that affect persons with cognitive impairment. The range of philosophies influencing educational practices and life management will be discussed. _Credit Hours: 4 hrs _Prerequisites: SPGN251 or SPGN510; program admission _Notes: A field component is required.

SPCI 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 0/1/2/3 hrs _Repeatable: May be repeated for credit.

SPCI 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

SPCI 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

SPCI 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

SPCI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through Continuous Enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPCI 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: hr _Prerequisites: department permission

SPCI 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

SPCI 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

SPCI 683 - Workshop
Students will be provided practical and theoretical study in a selected topic area. _Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPCI 694 - Seminar: Cognitive Impairment
A review and discussion of contemporary problems and issues related to the field. Recent developments and practices are critically analyzed. Course includes resource speakers and assigned topics for individual students/groups. Course offered on a credit/no-credit basis _Credit Hours: 2 hrs _Prerequisites: eight graduate hours in special education _When Offered: Offered on a credit/no-credit basis.

SPCI 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

SPCI 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

SPCI 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

Emotional Impairment

SPEI 401 - Programming, Methods and Curriculum for Elementary Students with Emotional Impairment
Teaching methods, techniques and materials for educating elementary age children with emotional impairments will be presented. In addition, types of programs serving elementary age students with emotional impairment, as well as the individualized education program and federal and state rules governing the programs will be discussed. _Credit Hours: 4 hrs _Prerequisites: SPEI301, SPGN510 and admission to the College of Education; Emotional Impairment majors only _Notes: This is an undergraduate course available for graduate credit.

SPEI 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. _Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

SPEI 510 - Theories of Emotional-Behavioral Impairments
Theories about the etiology of emotional-behavioral impairments is explored and applied to cases that involve children and adolescents. Emphasis is on the ability to analyze abnormal behaviors discussed in a variety of texts from different theoretical perspectives for the purpose of identifying appropriate intervention treatments. A field component is required. _Credit Hours: 4 hrs _Prerequisites: Program Admission in EI or LD

SPEI 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission

SPEI 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

SPEI 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

SPEI 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

SPEI 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

SPEI 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

SPEI 630 - Introduction to Autism
This course introduces the student to the definition of the syndrome of autism and the various theories with regard to cause and treatment. The student also is given an overview of the unique problems encountered in intervention strategies and techniques. _Credit Hours: 2 hrs _Prerequisites: graduate standing and department permission

SPEI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPEI 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission _Repeatable: May be repeated for credit.

SPEI 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 2 hrs _Prerequisites: department permission

SPEI 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.
provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

SPEI 694 - Seminar: Students with Emotional Impairment
Review and discussion of contemporary issues in the education of students with emotional impairment. Students develop a research proposal for the capstone experience. Course offered on a credit/no-credit basis. __Credit Hours: 3 hrs __Prerequisites: department permission __When Offered: Offered on a credit/no-credit basis.

SPEI 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SPEI 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SPGN 390 - Measurement and Diagnosis in Special Education
This course is required for all students majoring in special education. Students will learn about a wide variety of standardized and criterion-referenced tests and about their role in assessing intellectual capacity, academic achievement, socioemotional skills, adaptive behavior, and auditory and visual limitations of students with handicaps. The course will be taught in a lecture format. Students will look at and become familiar with a wide variety of commonly used tests. Cultural reactions, test bias, and limitations will be explored. __Credit Hours: 3 hrs __Prerequisites: SPGN251; admission to the teacher education program

SPEI 468 - Education of Children with Learning Disabilities
A study of educational and psychological problems of children with neurological and perceptual defects. Theories as they relate to the central nervous system, teaching techniques, classroom management, case studies, research and teacher-child and parent relationships will be reviewed. __Credit Hours: 2 hrs __Prerequisites: SPGN251 or SPGN510; admission to the teacher education program; senior standing __Notes: This is an undergraduate course available for graduate credit.

SPLI 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs __Repeatable: May be repeated for credit.

SPLI 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission

SPLI 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

SPLI 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SPLI 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SPLI 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

SPLI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr __Prerequisites: department permission __Notes: Credit will not apply toward degree completion. __When Offered: Offered on a credit/no-credit basis.

SPLI 672 - Integrated Curriculum in Special Education: Linguistics and Language Arts
This course focuses on the development of
SPLI 673 - Language: Acquisition, Disorders, Evaluation
This course presents information concerning normal language acquisition, descriptions of disorders of language development in students with disabilities, formal and informal assessment techniques used by speech/language pathologists, classroom evaluation techniques, guidelines for referral for appropriate services and intervention activities for the classroom. __Credit Hours: 3 hrs _Prerequisites: SPLI468 or equivalent

SPLI 678 - Assessment and Advanced Diagnostic Prescriptive Programming for Students with Learning Disabilities
This course will emphasize data based procedures and applications of human development, learning, behavioral, cognitive and dynamic theories to assessment in special education. Appropriate decision-making strategies relative to educational and instructional development are stressed. The administration and interpretation of assessment techniques is included. Application of this information to the law, best practices, theory and individual needs is reviewed. __Credit Hours: 4 hrs _Prerequisites: admission to the graduate program in Special Education, SPGN390, and department permission

SPLI 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPLI 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPLI 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

SPLI 693 - Learning Disabilities Practicum
This course involves an intensive study of children with learning and behavior problems. Evaluation, planning, diagnostic teaching, consultation and prescriptive writing are included. __Credit Hours: 4 hrs _Prerequisites: admission to the graduate program in Special Education, SPGN390, and department permission

SPLI 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SPLI 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SPLI 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

SPLI 712 - Research Colloquium: Learning Disabilities
An examination of current research dealing with theoretical and therapeutic implications for children and adults with learning disabilities and their families. Individual investigation and presentation required. __Credit Hours: 2 hrs _Prerequisites: SP, or equivalent.

Special Education

SPGN 461 - Classroom Management and Intervention Strategies for Students with Disabilities
Strategies, approaches and techniques for effective classroom management for students with disabilities. Behavioral theories provide the foundation for the construction of effective strategies and techniques applicable in inclusive, resource and self-contained classroom settings. Roles and responsibilities of students, teachers, families and other school personnel are discussed. __Credit Hours: 3 hrs _Prerequisites: SPGN251; admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

SPGN 471 - Curriculum and Transitions for Secondary Special Education
The role of the special educator relative to curriculum and transition planning at the secondary level is explored. Topics address all disability areas and settings. An approved field work practicum is required. __Credit Hours: 3 hrs _Prerequisites: SPGN251 or SPGN510, SPGN390, SPGN461, SPGN395 or SPGN615 and admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

SPGN 481 - Assistive and Instructional Technology in Special Education
Identification and Implementation of instructional and assistive technology in the special general education curriculum. Educational software, productivity, applications, digital media, adapted microcomputers, voice input/output, switching device, alternative input methods,
SPGN 491 - Special Education Student Teaching and Seminar
Seminar accompanies student teaching in Special Education, and provides a transition from the academic environment to the professional setting. Concurrent with special student teaching. __Credit Hours: 2 hrs _Prerequisites: admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

SPGN 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

SPGN 510 - Students with Disabilities in the General Education Classroom
A study of the nature and needs of students with disabilities being educated in the general education classroom. Review of philosophical and legal bases of inclusion and discussion of issues and concerns for students with disabilities who are educated in inclusive settings are emphasized. __Credit Hours: 3 hrs

SPGN 511 - Instruction and Management of Students with Disabilities in the General Education Classroom
Learning, social/emotional and behavioral aspects of students with disabilities and students at-risk who are served in general education settings. Learning styles, teaching strategies and techniques, as well as curricular modifications and classroom management techniques are presented. __Credit Hours: 3 hrs _Prerequisites: SPGN510

SPGN 515 - Computer Applications in Special Education
Development of knowledge of hardware and software adaptations needs for special education populations and presentation of information about availability of each. Focuses on effective utilization of microcomputers with special populations. __Credit Hours: 3 hrs _Prerequisites: department permission

SPGN 525 - Classroom Management and the Development of Social Competence in Students with Special Needs
An in-depth study of behavior management and social competence development in PreK–12 students with disabilities. Students will begin to develop their own philosophies and professional beliefs relative to behavior management and social competence based on reviews of theoretical perspectives, legal mandates, curriculum, instructional delivery and research-based effective practices. Course available only to students enrolled in M.A. Learning Disabilities or Special Education programs. __Credit Hours: 2 hrs _Prerequisites: SPGN510

SPGN 585 - Practicum: Severe Cognitive Impairment
This course is designed to meet state requirements for teachers preparing to teach in programs for students with severe cognitive impairment. Completion of a 180-hour supervised assignment focusing on planning, teaching and evaluating instruction with students, individually or in group settings. __Credit Hours: 4 hrs _Prerequisites: an endorsement in one area of special education _When Offered: Offered on a credit/no-credit basis.

SPGN 586 - Practicum in Special Education
Supervised practicum with students in local schools and institutions in the disability area of professional preparation. __Credit Hours: 4 hrs _Prerequisites: teacher certification and endorsement in the same area of special education _When Offered: Offered on a credit/no-credit basis.

SPGN 590 - Special Topics
Experimental courses designed to investigate current issues and specific topics of concern related to disabilities. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 1 hr

SPGN 591 - Special Topics
Experimental courses designed to investigate current issues and specific topics of concern related to disabilities. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 2 hrs

SPGN 592 - Special Topics
Experimental courses designed to investigate current issues and specific topics of concern related to disabilities. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 3 hrs

SPGN 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SPGN 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SPGN 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

SPGN 605 - Transitional Planning in Special Education
This course addresses transitional planning for students with disabilities. Life planning, community-based education, work-study and transition from school to adult living and
SPGN 615 - Social Psychology of Disability: Family, School, and Society
Reciprocal interactions of families, people with disabilities and schools, knowledge of the social, community and educational needs of families, and how special educators can address them by understanding collaborative, culturally competent, family-centered roles, and through review of current research. __Credit Hours: 3 hrs _Prerequisites: department permission

SPGN 619 - Administration and Supervision of Special Education
Organization or improvement of programs for students with disabilities; includes philosophical, legal and practical aspects of organizing and administering special education programs in public schools. __Credit Hours: 3 hrs _Prerequisites: an endorsement in special education or department permission

SPGN 621 - Law and Public Policy for Individuals with Disabilities
An extensive study of state and federal legislation as it applies to persons with disabilities. Teacher responsibility and liability under law. The effect of case law and judicial decisions on future legislation. __Credit Hours: 3 hrs _Prerequisites: SPGN510 or equivalent and graduate standing

SPGN 630 - Integrated Curriculum in Special Education: Math and Motor Skills Development
This course focuses on integrated curriculum (PreK–12) in special education across the areas of mathematics and motor development. Students will gain decision-making experiences in the selection of effective teaching/learning approaches, and explore the selection, uses an evaluation of a broad base of instructional methods and strategies addressing the needs of students with disabilities in a full continuum of special education settings. __Credit Hours: 3 hrs _Prerequisites: SPLI678 and endorsement in one area of special education or department permission

SPGN 632 - Models and Skills for Special and General Education Collaboration
Theories focusing on areas including group-process skills, problem-solving skills and relevant consultation models to encourage collaboration between special and general factors. Development of skills supporting collaborative consultation as an interactive process and methods and strategies to enhance collaborative efforts between general and special educators in support of students with disabilities. __Credit Hours: 2 hrs _Prerequisites: an endorsement in one area of special education

SPGN 636 - Roles of Resource Teachers
This course focuses on the development of a broad understanding of Least Restrictive Environment, mainstreaming and inclusive education practices for students with disabilities. The organization of programs, development of resource teacher instructional and communication skills, and alternative service delivery models and the needs of both general and special education are explored. __Credit Hours: 2 hrs

SPGN 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPGN 642 - Curriculum Design and Construction in Special Education
This course focuses on essential foundations of curriculum design and construction in special education. Theoretical and practical curricular models will be analyzed and discussed. Particular emphasis will be placed on curricular frameworks, which support the education of students with disabilities in self-contained, resource room and inclusive settings. __Credit Hours: 3 hrs

SPGN 643 - Innovative Curriculum Strategies for Special Education Settings
A study of exemplary curricula, and the elements necessary to design and create curriculum supportive of students with disabilities in inclusive, resource room and self-contained settings. Students will utilize curricular frameworks and strategies, designated as best practices, in the design, creation and evaluation of specific curricular appropriate to their professional area. __Credit Hours: 3 hrs _Prerequisites: SPGN642

SPGN 652 - Technology Infusion to Enhance Curriculum in Special Education
This course focuses on the application of technologies (assistive and general) to support and enhance active learning for students with disabilities, PreK–12. Frameworks and strategies supporting the infusion of technology within classroom curriculum will be explored. Curriculum design, with technology utilized as a productive tool for teaching and individual student learning, will be emphasized. __Credit Hours: 3 hrs

SPGN 653 - New Directions in Assistive Technology
A study of new and emerging technologies which support the changing needs of students with disabilities, PreK–12. Specifically, assistive technology applications, home/school modifications, assistive technology components for IEP’s and IFSP’s, and state-of-the-art hardware and software will be addressed. Course topics will change and students may elect this course three times for credit. __Credit Hours: 3 hrs

SPGN 661 - Advanced Assessment and Decision-Making
Examination of database procedures for reviewing and making educational decisions regarding special education eligibility, program placement and goals. Laws, special education definitions, behavioral and
cognitive theory, administration interpretation of assessment techniques and materials, writing of educational prescriptions and survey of service-delivery systems. __Credit Hours: 3 hrs

SPGN 679 - Special Topics
Experimental courses designed to investigate specific topics of concern in special education. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPGN 680 - Special Topics
Experimental courses designed to investigate specific topics of concern in special education. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPGN 681 - Special Topics
Experimental courses designed to investigate specific topics of concern in special education. Not more than six hours of special topic may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

SPGN 687 - Internship
A supervised experience in an area of special education. Internship experiences are contracted with a department faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SPGN 689 - Supervised Internship in Special Education
Supervised internship with pupils in local schools and institutions in the disability area of professional preparation. __Credit Hours: 6 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 690 - Master’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. Course offered on a credit/no-credit basis __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 691 - Master’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. Course offered on a credit/no-credit basis __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 692 - Master’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. Course offered on a credit/no-credit basis __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 694 - Seminar: Interdisciplinary Special Education
An intensive study of selected problems in special education. Students develop a research proposal for the capstone experience. Open only to majors in special education. __Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPGN 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPGN 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

SPGN 719 - Advanced Seminar: Special Education Administration
A structured colloquium covering current special education administrative practices, issues, procedures and tasks specific to special education supervisors and directors. __Credit Hours: 3 hrs _Prerequisites: SPGN619

SPGN 789 - Specialist Internship in Special Education
Supervised field placement to ensure that students have actual experiences with all phases of special education’s administrative responsibilities or curriculum specialist’s responsibilities. __Credit Hours: 4 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPGN 790 - Specialist’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. __Credit Hours: 1 hr _Prerequisites: department permission

SPGN 791 - Specialist’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. __Credit Hours: 2 hrs _Prerequisites: department permission

SPGN 792 - Specialist’s Thesis
A research-based study conducted under the direction of a departmental faculty member and committee. __Credit Hours: 3 hrs _Prerequisites: department permission
SPPI 240 - Preclinical Experiences — POHI
This introductory course provides exposure to and experience with the physically or otherwise health impaired. Students will be encouraged to evaluate and examine their motivation for becoming a teacher of the physically and health impaired and be introduced to all aspects of the teaching profession. Students will participate in a field experience, being exposed to all age and grade levels. They will have an opportunity to visit a variety of settings that employ teachers of the physically and health impaired and be exposed to the ancillary services found in most POHI delivery models. __Credit Hours: 3 hrs

SPPI 310 - Developmental Sciences for Teachers of the Physically and Health Impaired
A study of developmental human anatomy and physiology with emphasis upon the impact of the nervous system and its integration, function and control of the other body systems and their functions. The relationship of normal development to disability is explored and infused throughout the course. Laboratory periods are required where students can investigate the principles covered in lecture using anatomical models and specimens. __Credit Hours: 4 hrs __Prerequisites: BIOL105 and SPGN251

SPPI 360 - Pathology of Physical and Health Impairments
A comprehensive study of orthopedic, neurologic, health and other handicapping conditions common to children and youth comprising the population found in educational settings serviced by the POHI teacher. Medical terminology and procedures are also introduced. __Credit Hours: 3 hrs __Prerequisites: SPPI310

SPSI 332 - Acoustic Phonetics Speech Science
Basic principles of acoustic science and speech perception. Consideration of speech as an acoustical phenomenon and the analysis of speech patterns through measurements of sound and spectral analysis. __Credit Hours: 2 hrs __Prerequisite/Corequisite: SPSI336

SPSI 336 - Physiologic Phonetics: Anatomy and Physiology
Anatomy and physiology of normal speech production, consideration of speech as a motor behavior, physiological investigation of speech and voice. __Credit Hours: 3 hrs __Corequisite: SPSI332

SPSI 337 - Language Acquisition
The development of speech, language, hearing and communication from birth. The interrelationship between cognitive development and language acquisition and usage. Developmental processes and milestones in phonology, morphology, syntax and semantics and pragmatics as a basis for understanding the effects of speech, language and hearing problems of the individual. __Credit Hours: 3 hrs

SPVI 365 - Braille
Developing proficiency in reading and writing error-free braille and the reading of music braill __Credit Hours: 3 hrs __Prerequisite/Corequisite: SPGN251

SPVI 366 - The Eye and Vision — Anatomy and Physiology
Anatomy, physiology, and pathology of the organs of vision, refractive errors, and principles of correction. Educational implications of visual impairment in children, rather than strictly medical achievements. Interpretation of medical reports to parents, students and teachers. __Credit Hours: 2 hrs __Prerequisites: SPGN251

SPVI 368 - Mobility Training for Persons with Visual Impairment
Sensory training, study, and development of cane techniques as they apply to mobility for persons with visual impairment. Introduction to leader dog program. Practicum included. Offered on the junior, senior and graduate level. __Credit Hours: 2 hrs __Prerequisites: SPHI228; admission to the teacher education program

SPVI 369 - Community Considerations for Persons with Visual Impairment
The lifestyle and needs of persons with visual impairment; appropriate considerations the community must take for all levels of physical, emotional, and vocational development. Field trips and classroom experiences, acquaintance with a wide variety of service-oriented facilities for persons with visual impairment. __Credit Hours: 3 hrs __Prerequisites: SPGN251

Hearing Impairment

SPHI 228 - Education of Students with Hearing Impairment
Designed to cover the history of the education of persons with hearing impairments, and to provide an overview of educational programming, psychological adjustment, parent counseling, communication methods and various philosophical approaches to education of persons with hearing impairments. __Credit Hours: 3 hrs __Prerequisite/Corequisite: SPGN251

SPHI 375 - Fundamentals of Sign Communication
A study of the rationale for use of manual communication systems with persons with hearing impairments, including American Sign Language, manually-coded English Sign systems and fingerspelling. Beginning-level skills in manual communication will be developed. Observation of use of sign language in school programs will be required. __Credit Hours: 2 hrs

SPHI 387 - Introductory Practicum — Students with Hearing Impairment
Thirty clock hours of supervised observation and work with students with hearing impairments. __Credit Hours: 1 hr __Prerequisites: SPHI228; admission to the teacher education program

SPHI 391 - Language for Students with Hearing Impairment
Language development of children with prelingual hearing impairments. Survey of various methods of teaching language,
including natural and structured approaches.  
_SPHI 437 - Adaptive Curriculum for Students with Hearing Impairment_  
Principles and methods of teaching academic subjects to students with hearing impairments. Classroom procedures and materials especially designed for students with hearing impairments, as well as the adaptation of regular curricula and materials will be presented. _Credit Hours: 3 hrs _Prerequisites: SPHI391; admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit._

_SPHI 394 - Aural Habilitation Rehabilitation_  
A study of the avenues of receptive language available to persons with impaired hearing; the development of auditory learning, auditory training and the training of speechreading. Includes the understanding of group and individual hearing aids, other assistive technology and surgical implants. _Credit Hours: 3 hrs _Prerequisites: SPHI392

_SPHI 435 - Phonetics and Hearing Impairment_  
Articulatory and acoustic phonetics. Speech perception of persons with hearing impairments: auditory cues available relative to the individual’s hearing loss; visual, tactile and kinesthetic correlates. Characteristics of speech production of speakers with impaired hearing. Phonetic transcription in International Phonetic Alphabet, Northampton, and Thorndike orthographic systems. Phonological level speech assessment. _Credit Hours: 2 hrs _Prerequisites: SPSI332 and SPSI336

_SPHI 436 - Speech Methods for Students with Hearing Impairment_  
Methods of assessment and intervention in the development of intelligible connected speech in persons with hearing impairments. _Credit Hours: 2 hrs _Prerequisites: SPHI435; admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit._

_SPHI 487 - Speech Practicum — Students with Hearing Impairment_  
Thirty clock hours of supervised observation and speech work with persons with hearing impairments. _Credit Hours: 1 hr _Prerequisites: SPHI436; admission to the teacher education program _

_SPHI 500 - Professional Educator Development Program_  
For in-service professional and personal development. Not applicable to an advanced degree. _Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit._

_SPHI 539 - Continuous Enrollment_  
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion._

_SPHI 592 - Special Topics_  
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

_SPHI 597 - Independent Study_  
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

_SPHI 598 - Independent Study_  
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

_SPHI 599 - Independent Study_  
An intensive study of a problem or group of problems under the direction of a University faculty member. _Credit Hours: 1/2/3 hrs _Prerequisites: department permission

_SPHI 639 - Continuous Enrollment_  
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to
semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPHI 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Exercise Science and Athletic Training

SPMD 515 - Diabetes and Obesity
This course will provide students in clinical fields of study the knowledge and practical skills to understand the concepts of diabetes and obesity and the implications towards health status. In addition, the role of lifestyle modification will be examined in relation to managing both conditions and improving potential morbidity. Course available only to students in the Physical Education, Sports Medicine, Exercise Physiology, Health, Orthotics and Prosthetics, Dietetics, Nursing, Social Work, Occupational Therapy, Psychology and Biology programs. __Credit Hours: 3 hrs

SPMD 518 - Sports Supplements
Graduate students interested in nutritional products that are purported to enhance athletic performance, further their understanding of exercise physiology through this course. Examination of research articles, student presentations, writing assignments and traditional lectures will enable the students to critically evaluate such compounds. __Credit Hours: 3 hrs _Prerequisites: PHED300 or equivalent

SPMD 580 - Introduction to Orthotics and Prosthetics
Course is specifically designed for students possessing a baccalaureate degree who wish to become certified orthotists or prosthetists and recommended for seniors who wish to explore career opportunities in either discipline. Introduces students to the common musculoskeletal pathologies encountered in clinical practice and to the radiographic and other imaging techniques used in their evaluation. __Credit Hours: 3 hrs

SPMD 582 - Kinesiology-Biomechanical Basis of Orthotic & Prosthetic Management
Introduction of biomechanical principles that act to restore normal or near-normal patient function including essential mechanical principles that help control movement of the spine and lower extremity with and without external devices. __Credit Hours: 3 hrs

SPMD 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. _Credit Hours: 1 hr _Prerequisites: department permission

SPMD 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPMD 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPMD 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPHI 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

SPHI 689 - Internship
A directed field experience in a department-approved agency or institution under the direction of certified personnel. Arrangements must be approved by adviser prior to registration. __Credit Hours: 4 hrs _Prerequisites: department permission

SPHI 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SPHI 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SPMD 581 - Musculoskeletal Pathologies for Orthotics and Prosthetics
Required course for students possessing a baccalaureate degree who wish to become
topics may be used on a degree program. _Credit Hours: 3 hrs _Prerequisites: department permission

SPMD 597 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 1 hr _Prerequisites: department permission

SPMD 598 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 2 hrs _Prerequisites: department permission

SPMD 599 - Independent Study
An intensive study of a problem under the direction of a University faculty member. _Credit Hours: 3 hrs _Prerequisites: department permission

SPMD 605 - Clinical Gait Analysis —
Methods of observing, and interpreting normal and pathological gait. _Credit Hours: 3 hrs _Prerequisites: SPMD582

SPMD 610 - Spinal and Upper Extremity Orthotics
Provides the student with a detailed functional analysis of the cervical, thoracic and lumbar spine and upper limb. Specific pathologies and their appropriate orthotic management is emphasized. _Credit Hours: 3 hrs _Prerequisites: SPMD581

SPMD 615 - Lower Extremity Prosthetics I
Causes of lower limb amputation and its prosthetic management are presented. Effects of amputation level, and biomechanical constraints that different prosthetic designs impose on patients is examined. _Credit Hours: 3 hrs _Prerequisites: SPMD582

SPMD 620 - Clinical Affiliation I
Students will be assigned to an affiliated clinical facility to observe and participate in orthotic management of patients. This affiliation will be arranged and supervised by the clinical director. _Credit Hours: 2 hrs

SPMD 630 - Research Methods for Orthotics and Prosthetics
This is an overview of the design and analysis techniques used in healthcare research. Single subject or single system designs applicable to orthotics and prosthetics is emphasized. _Credit Hours: 3 hrs _Prerequisites: SPMD582

SPMD 636 - Exercise Testing and Evaluation
Principles of submaximal fitness assessment, maximal graded exercise testing and alternative forms of diagnostic exercise testing will be presented. Both lecture and laboratory formats will be used. Completion of the SPMD636/637 sequence will help prepare the student for the ACSM Exercise Specialist exam. _Credit Hours: 3 hrs

SPMD 637 - Techniques of Exercise Prescription and Leadership
The student will learn techniques of exercise prescription for both healthy and clinical populations. In addition techniques of exercise leadership and motivational skills will be presented. Lecture format and case study analysis will be employed. Completion of the SPMD636/637 sequence will prepare the student for the ACSM Exercise Specialist exam. _Credit Hours: 3 hrs _Prerequisites: SPMD636

SPMD 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPMD 640 - Lower Extremity Orthotics I
In-depth study of design, fabrication and application of foot orthoses and ankle-foot orthoses. Theoretical and applied issues in optimizing orthotic management will be examined. _Credit Hours: 3 hrs _Prerequisites: SPMD582

SPMD 642 - Advanced Exercise Physiology I
Biochemistry of energy metabolism; biophysical functional concepts related to interaction of nerve and muscle; and response to training. Theoretical concepts are supported by practical experience in the human performance laboratory. _Credit Hours: 3 hrs _Prerequisites: PHED300 or equivalent

SPMD 644 - Advanced Exercise Physiology II
Cardiovascular and respiratory concepts related to exercise, training, health, disease and aging, supported by practical experience in the human performance laboratory. _Credit Hours: 3 hrs _Prerequisites: PHED300 or equivalent

SPMD 645 - Lower Extremity Prosthetics II
Builds on SPMD615 and synthesizes the theoretical principles and clinical procedures of trans-femoral prosthetics. Particular emphasis is placed on the biomechanics and kinematics of a proximal amputation. Patient evaluation, prescription criteria and appropriate component selection are central principles of this course. _Credit Hours: 3 hrs _Prerequisites: SPMD615

SPMD 649 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. _Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPMD 650 - Lower Extremity Orthotics II
Content includes the principles, components and techniques of lower orthoses used at, and proximal to, the knee. Instruction includes knee orthoses (KO), hip orthoses (HO), and knee-ankle-foot orthoses (KAFO). _Credit Hours: 3 hrs _Prerequisites: SPMD640
SPMD 651 - Biomechanics of Human Motion

The course will examine the influence of various forces and locomotion on the human condition from a mechanical perspective. Emphases will be placed upon a critical review of relevant kinetic and kinematic literature, and the various data collection and analysis techniques associated with research in the realm of sport performance and injury prevention. ___Credit Hours: 1 hr ___Prerequisites: undergraduate biomechanics or permission of instructor

SPMD 655 - Upper Extremity Prosthetics

Clinical evaluation techniques will be coupled with the appropriate prosthetic management. Students will evaluate case studies and integrate their knowledge to prescribe appropriate prostheses for patients. ___Credit Hours: 3 hrs ___Prerequisites: SPMD581

SPMD 660 - Advanced Techniques and Procedures in Orthotics and Prosthetics

Advanced techniques for prosthetics and orthotic management of patients are presented. State of the art materials and methodologies are discussed along with an analysis of current research of orthotic and prosthetic procedures. ___Credit Hours: 2 hrs

SPMD 665 - Administration of Orthotics and Prosthetic Facilities in the Public and Private Sectors

Administrative practice of a contemporary orthotic and/or prosthetic facility. Includes but not limited to policy development, insurance, managed care, personnel, management, billing, accounting and regulating agencies such as the American Board of Certification (ABC) and the Occupational Safety and Health Administration (OSHA). ___Credit Hours: 2 hrs ___Prerequisites: SPMD582

SPMD 667 - Upper Extremity Prostheses

Students will be assigned to an affiliated clinical facility to observe and participate in prosthetic management of patients. This affiliation will be arranged and supervised by the clinical director. ___Credit Hours: 2 hrs ___Prerequisites: department permission

SPMD 679 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 1 hr ___Prerequisites: department permission

SPMD 680 - Clinical Affiliation II

An intensive study of a problem or group of problems under the direction of a University faculty member. ___Credit Hours: 1 hr ___Prerequisites: department permission

SPMD 681 - Special Topics

An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. ___Credit Hours: 3 hrs ___Prerequisites: department permission

SPMD 688 - Internship

This practical experience requires the completion on 225 hours at an approved worksite in one of the following areas: cardiac rehabilitation, hospital, corporate or community wellness, or strength and conditioning coaching. This is considered an elective for students to gain some practical experience in the field. Completion of SPMD688 may not be counted toward SPMD689. Students may not use current employment as completion of this requirement. ___Credit Hours: 3 hrs ___Prerequisites: SPMD636/642/644 and department permission

SPMD 689 - Internship

One option for the culmination project for the Masters Degree in Exercise Physiology. This practical experience requires the completion of 450 hours at an approved worksite in one of the following areas: cardiac rehabilitation, hospital, corporate or community wellness, or strength and conditioning coaching. Students may not use current employment as completion of this requirement. ___Credit Hours: 6 hrs ___Prerequisites: SPMD636/642/644 and department permission

SPNH 402 - Advanced Readings in Spanish American Literature

Students will read, analyze and discuss in class a selection of representative and challenging works of Spanish-American literature from multiple historical periods and genres (poetry, prose, theatre). Course readings will be discussed in their historical, cultural and social contexts, and with regard to related literary trends and critical theories. In Spanish. ___Credit Hours: 3 hrs ___Prerequisites: SPNH 343 or departmental permission

SPNH 401 - Advanced Readings in Spanish Literature

Students will read, analyze and discuss in class a selection of representative and challenging works of Spanish literature from a variety of genres (poetry, prose, theater), and from a variety of historical periods. Course readings will be discussed in their historical, cultural and social contexts, and with regard to related literary trends and critical theories. In Spanish. ___Credit Hours: 3 hrs ___Prerequisites: SPNH 343 or departmental permission
SPNH 444 - Advanced Spanish Conversation and Composition
Emphasis on greater oral facility, acquisition of additional vocabulary and idioms, advanced sentence structures and frequent written compositions. Includes a formal proficiency assessment. __Credit Hours: 3 hrs _Prerequisites: SPNH343/344 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 445 - Spanish-American Prose
A study of selected topics in Spanish-American literature. May be repeated for credit if the material of the course is in another area. In Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH352 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 449 - Romanticism
A study of the major works of Hispanic Romanticism. In Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH342 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 450 - Spanish-American Theatre
A study of the theatre in Spanish America from its beginning to the present. In Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH352 or department permission

SPNH 454 - Modernism in Spanish America
A survey of the literary movement known as "modernismo" in the literature of Spanish America. In Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH352 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 455 - The Generation of 1898
A study of the works of the main authors of the generation of 1898, from Unamuno to Ortega y Gasset. In Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH342 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 456 - Scientific and Technical Spanish I
Study of the fundamental Spanish terminology required for scientific and technical contexts, including basic vocabulary for mathematics, geometry and physics. In-depth study of at least one scientific or technical field (e.g., automobile industry, automated processes). Students will explore the vocabulary and resources in their chosen fields. __Credit Hours: 3 hrs _Prerequisites: SPNH343 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 457 - Scientific and Technical Spanish II
Study of the fundamental Spanish terminology required for scientific and technical contexts, including basic vocabulary for computers, chemistry and biology. In-depth study of at least one scientific or technical field (e.g., data processing, nutrition). Students will explore the vocabulary and resources in their chosen fields. __Credit Hours: 3 hrs _Prerequisites: SPNH456 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 465 - Modern Novel
Study of the development of the modern novel in Spain during the 19th and 20th centuries. Representative novels will be read and discussed in Spanish. __Credit Hours: 3 hrs _Prerequisites: SPNH342 or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 467 - Culture and Literature of the Hispanic Groups in the United States
A study of the cultures of the major Hispanic groups in the U.S. The study of representative literary works is intended to lead to an increased appreciation of the cultural roots and current life styles of these groups in Spanish. A minimum of 24 hours of field experience required. __Credit Hours: 3 hrs _Notes: This is an undergraduate course available for graduate credit.

SPNH 482 - Language of the Hispanic Groups in the United States
A survey of present-day social and regional variations in the Spanish spoken in the U.S. and the historical background of these variations. In Spanish. A minimum of 24 hours of field experience required. __Credit Hours: 3 hrs _Prerequisites: an introductory course in linguistics or department permission _Notes: This is an undergraduate course available for graduate credit.

SPNH 492 - Senior Seminar in Spanish
Senior level course for Spanish majors in which they demonstrate knowledge and performance in the areas of language, linguistics, cultures and literatures of Hispanic peoples. In Spanish. Course available to all Spanish majors.

SPNH 519 - Spanish Phonology
A study of the articulatory basis of the sounds of Spanish. Drills on rhythm and intonation patterns, with practice and recordings in the laboratory. __Credit Hours: 2 hrs

SPNH 590 - Special Topics
An intensive study of a specific area of Spanish language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Repeatable: This course may be repeated for credit with permission.

SPNH 591 - Special Topics
An intensive study of a specific area of Spanish language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: This course may be repeated for
credit with permission.

**SPNH 592 - Special Topics**
An intensive study of a specific area of Spanish language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs__ Prerequisites: SPNH443 or equivalent. Repeatable: This course may be repeated for credit with permission.

**SPNH 597 - Independent Study**
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr__ Prerequisites: department permission.

**SPNH 598 - Independent Study**
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 2 hrs__ Prerequisites: department permission.

**SPNH 599 - Independent Study**
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs__ Prerequisites: department permission.

**SPNH 610 - Intensive Summer Program in Spanish**
Intensive summer course offered in Mexico. Small-group (four or five students) language instruction, with many different instructional levels available. Students advance according to individual progress. Students live with Mexican families. __Credit Hours: 6 hrs__ Repeatable: May be repeated for credit.

**SPNH 621 - Graduate Spanish Conversation**
A continuation of advanced conversation with emphasis on matters of diction and style. __Credit Hours: 2 hrs__ Prerequisites: SPNH444 or equivalent. Repeatable: May be repeated for supplementary credit.

**SPNH 639 - Continuous Enrollment**
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr__ Prerequisites: department permission. Notes: Credit will not apply toward degree completion. When Offered: Offered on a credit/no-credit basis.

**SPNH 646 - Spanish for Business Practices**
These courses teach the correct usage of Hispanic business and financial vocabulary, train the students in the reading, writing and translation of Spanish commercial documents, and familiarize students with relevant bibliographical resources. __Credit Hours: 3 hrs__ Notes: Cannot be taken for credit by students who received credit for SPNH446/447 Business Spanish.

**SPNH 647 - Spanish for Business Practices**
These courses teach the correct usage of Hispanic business and financial vocabulary, train the students in the reading, writing and translation of Spanish commercial documents, and familiarize students with relevant bibliographical resources. __Credit Hours: 3 hrs__ Notes: Cannot be taken for credit by students who received credit for SPNH446/447 Business Spanish.

**SPNH 680 - Special Topics**
An intensive study of a specific area of Spanish language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr__ Repeatable: This course may be repeated for credit with permission.

**SPNH 681 - Special Topics**
An intensive study of a specific area of Spanish language or literature, to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs__ Repeatable: This course may be repeated for credit with permission.

**SPNH 682 - U.S. Dialects of Spanish**
A study of the dialects of Spanish spoken in the United States, including their historical background and their modification through contact with English. A minimum of 24 hours of field experience will be required. __Credit Hours: 3 hrs__ Prerequisites: an introductory course in linguistics.

**SPNH 697 - Independent Study**
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit
Intensive study of a problem, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPNH 699 - Independent Study
Intensive study of a problem, under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

Physical Impairment of Other Health Impairment

SPPI 412 - Ancillary Services and Health Procedures for Teachers of Physically Impaired
Information concerning the individual disciplines that provide ancillary services to physically and health impaired students. Skills involving the use of adaptive equipment, manipulation of orthotics, and implementation of health intervention and maintenance procedures will be learned. __Credit Hours: 2 hrs _Prerequisites: SPPI310 or instructor permission; admission to the teacher education program __Notes: This is an undergraduate course available for graduate credit.

SPPI 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs _Repeatable: May be repeated for credit.

SPPI 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPPI 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

SPPI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPPI 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SPPI 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SPPI 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SPPI 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

SPPI 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.
SPPI 697 - Independent Study
An intensive study of a problem or group of topics under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SPPI 698 - Independent Study
An intensive study of a problem or group of topics under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

SPPI 699 - Independent Study
An intensive study of a problem or group of topics under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 452 - Voice
A study of the etiology, diagnosis and treatment of functional and organic voice disorders, including defects of loudness, pitch and quality. __Credit Hours: 3 hrs __Prerequisites: SPSI332, SPSI336 __Notes: This is an undergraduate course available for graduate credit.

SPSI 454 - Stuttering
Causation, symptomatology and remedial procedures of stuttering; specific therapy procedures in the clinic, the school and the home. __Credit Hours: 3 hrs __Prerequisites: department permission

SPSI 500 - Professional Educator Development Program
For in-service professional and personal development. Not applicable to an advanced degree. __Credit Hours: 1/2/3 hrs __Repeatable: May be repeated for credit.

SPSI 508 - Multicultural Issues in Intervention for Communication Disorders
Survey of language and cultural influences of major racial and/or ethnic groups, and resultant communication patterns. Differential diagnostic approaches to determine communication disorder or difference. Educational effects are also covered. __Credit Hours: 2 hrs

SPSI 516 - Introduction to Graduate Study in Speech-Language Pathology
This course, customarily taken in the first or second semester of the graduate program, focuses on research methodologies in the area of human communication development and disorders. Students will learn to read professional literature critically and to apply the findings of research to clinical management of communication disorders. In addition, students will review standards for clinical certification in speech-language pathology and will initiate a portfolio of knowledge, skills and competencies to be attained during the course of graduate study. __Credit Hours: 3 hrs

SPSI 528 - Clinical Practice in Speech-Language Pathology I
Supervised clinical practicum experience with children and adults in individual and group settings. Focus on assessing and treating a variety of communication disorders including accent reduction, phonological, articulation, and language disorders in children and adults. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 538 - Clinical Practicum in Speech-Language Pathology II
Supervised clinical practicum experience with children and adults in individual and group settings. Focus on assessing and treating a variety of communication disorders including voice, fluency, neurogenic, oral-motor and language disorders. __Credit Hours: 2 hrs __Prerequisites: SPSI528 and department permission

SPSI 555 - Neuroanatomy and Physiology for the Speech-Language Pathologist
A lecture class concerned with development, maturation and function of the human central nervous system with emphasis on those neural structures and processes involved in the learning and usage of speech and language. __Credit Hours: 2 hrs

SPSI 568 - Diagnostic Methods: Assessment of Speech and Language Disorders in Children
Diagnostic procedures and routines used in the evaluation of speech and language disorders in children. Emphasis on familiarization with available evaluative tools, interviewing procedures, case analysis, test interpretation and report writing. __Credit Hours: 3 hrs

SPSI 578 - Diagnosis and Treatment of Audiometric Disorders
Advanced techniques of testing the auditory function; interpretation of audiograms, hearing aid evaluations and use of differential hearing assessment techniques for children and adults with hearing disorders. __Credit Hours: 3 hrs

SPSI 590 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr __Prerequisites: department permission
SPSI 591 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 592 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

SPSI 595 - Workshop
Please check the current class schedule for specific offerings. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 597 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr __Prerequisites: department permission

SPSI 598 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 599 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs __Prerequisites: department permission

SPSI 607 - Early Intervention for Speech and Language Impaired Children
Current theoretical and therapeutic approaches to early assessment and intervention with speech and language impaired infants, toddlers and preschoolers. Survey of state and national laws and service-delivery options. __Credit Hours: 3 hrs

SPSI 612 - Motor Speech Disorders
Examines the nature, etiology and treatment of motor speech disorders resulting from neuropathologies. Related intellectual, perceptual, social and emotional problems will be considered, as well as the neuromuscular symptoms. Current speech pathology approaches will be emphasized within a total therapeutic program. __Credit Hours: 2 hrs __Prerequisites: SPSI555

SPSI 614 - Aphasia
Designed to provide a theoretical framework for understanding the symbolic language problems of aphasia, and current therapeutic approaches to the problem; aphasia resulting from cerebral insult after language has been established; and related physical and behavioral disturbances. __Credit Hours: 3 hrs __Prerequisites: SPSI555

SPSI 616 - Language Disorders in School-Age Children
The conceptual framework for thinking about language disorders in school-age children with special emphasis on language assessment and language interventions in school settings. __Credit Hours: 3 hrs

SPSI 618 - Language Disorders in School-Age Children
The conceptual framework for thinking about language disorders in school-age children with special emphasis on language assessment and language interventions in school settings. __Credit Hours: 3 hrs

SPSI 620 - Consulting and Interviewing in Speech Pathology
Instruction and experiences in preparing students to manage interviewing, consulting and educational activities for families of persons with speech and hearing disabilities, and/or clients with disabilities. __Credit Hours: 2 hrs

SPSI 622 - Augmentative Communication
This course focuses on a historical perspective and philosophy of augmentative communication, with assessment and intervention considerations. Includes emphasis on aided, unaided, electronic and gestural communication techniques. __Credit Hours: 3 hrs

SPSI 624 - Acquired Neurogenic Cognitive-Communication Disorders
This lecture/discussion course will focus on the cognitive and communicative changes resulting from neurogenic etiologies. Speech-language pathology assessment tools and intervention strategies for persons with brain damage resulting from conditions such as unilateral right hemisphere lesions, traumatic brain injuries, dementing illness and anoxic encephalopathy will be addressed. __Credit Hours: 3 hrs __Prerequisites: SPSI555

SPSI 625 - Dysphagia
This is an introductory course in swallowing disorders. The student will develop a basic understanding of the anatomy and physiology of deglutition, the various procedures used to evaluate swallowing problems and treatment approaches. Students will emerge from this experience prepared to profit from clinical experience in dysphagia during internships. __Credit Hours: 2 hrs

SPSI 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr __Prerequisites: department permission __Notes: Credit will not apply toward degree completion. _When Offered: Offered on a credit/no-credit basis.

SPSI 679 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program.
SPSI 680 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs __Prerequisites: department permission

SPSI 681 - Special Topics
An experimental course for subject matter not provided in other departmental offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs __Prerequisites: department permission

SPSI 687 - Clinical Internship in Speech-Language Pathology I
Opportunity to practice speech and language assessment and intervention in a clinical setting. Experience with children and adults with multiple disabilities. __Credit Hours: 4 hrs _Prerequisites: SPSI528, SPSI538 and department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 688 - Clinical Internship in Speech-Language Pathology II
Opportunity to practice speech and language assessment and intervention in a clinical setting. Experience with children and adults with multiple disabilities. Offered on a credit/no-credit basis. __Credit Hours: 4 hrs _Prerequisites: SPSI528, SPSI538 and department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 689 - Public School Internship in Speech-Language Pathology
Supervised practice in a public school setting. __Credit Hours: 4 hrs __Prerequisites: SPSI528, SPSI538 and department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 694 - Professional Issues in Speech-Language Pathology
Emphasis on current issues, state and national laws, professional ethics and organization and administration in speech-language pathology. Students will present materials for summative assessment of progress through graduate program. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 697 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 698 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPSI 699 - Independent Study
An intensive study of a problem or group of problems, under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Offered on a credit/no-credit basis.

SPVI 465 - Braille II: Nemeth Code
Development of proficiency in reading and writing Nemeth Braille code for mathematics and science notation. __Credit Hours: 3 hrs _Prerequisites: SPVI365; admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

SPVI 467 - Education of Children with Visual Impairment
Organization and administration of various plans for educating children with visual impairment. Adaptation of various teaching methods and materials for these children, as well as comparison of various vision testing methods and devices. __Credit Hours: 2 hrs _Prerequisites: SPGN251; admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

SPVI 469 - Technology for Persons with Visual Impairment
Experience with a variety of tools available for use by persons with visual impairment. The tools and devices covered include those designed to provide assistance in reading, Braille and low-vision. __Credit Hours: 3 hrs _Prerequisites: admission to the teacher education program _Notes: This is an undergraduate course available for graduate credit.

Technology Studies

STS 420 - Women and Technology
This course surveys gender issues surrounding technology development, transfer and use. We will examine these issues from historical, contemporary and global perspectives. __Credit Hours: 3 hrs _Cross-listed: This course is cross-listed with WGST420. _Notes: This is an undergraduate course available for graduate credit.
STS 495 - Technology, Values and the Future

The development of modern technological society: major breakthroughs in the physical and life sciences, the influence of some of these breakthroughs on technological development, the consequent shaping of new world views and, hence, values in contemporary and future societies. Interrelationships between technology and political, socioeconomic and environmental systems; the relationship between technology and values. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

STS 502 - Microcomputer Applications in Administration

This course is designed to teach students how to integrate the personal computer into the management of organizations. This includes research, data analysis, planning, project management and presentations. Students use the Internet as an integral part of the course and life sciences, the influence of some of these breakthroughs on technological development, the consequent shaping of new world views and, hence, values in contemporary and future societies. Interrelationships between technology and political, socioeconomic and environmental systems; the relationship between technology and values. __Credit Hours: 3 hrs __Notes: This is an undergraduate course available for graduate credit.

STS 505 - Introduction to Technology and Society

Introduction to issues and analytical frameworks pertaining to technology and society. Through interdisciplinary contemporary and classic readings, discussions (online and classroom) and research, the class will explore the intellectual, cultural and ethical issues concerning the relationship of technology to society; emphasis on examination of workplace technology, information technology, instructional technology, medical technology, medical technology, and agriculture biotechnology with a focus on ethical dilemmas arising from ill-conceived technology design and use. __Credit Hours: 3 hrs __Prerequisites: graduate standing

STS 506 - Patterns of Change in Technology and Culture

An overview of significant patterns of change in the relationship between American technology and culture. An interdisciplinary review of the reception and diffusion of technological developments within a societal and cultural context. Includes examination of advancement, acceptance, or rejection of technology implicit throughout the history of American progress. __Credit Hours: 3 hrs

STS 507 - Research Methods in Technology Studies

Introduction to empirical approaches to assessing technology including various methodological and statistical approaches for conducting research within society, the community and organizations. The Statistical Package for the Social Sciences will be introduced and used for basic descriptive and explanatory statistical calculations. __Credit Hours: 3 hrs __Prerequisites: TS505 and TS506

STS 508 - Contemporary Trends in Technology and Society

A current issues seminar on relevant issues of current interest and concern related to technology and society with a central focus on the inter-connectedness of technology "machines" created by humans for humans. Included is an examination of the powerful ways these technologies are part of today’s culture, work, creative expressions, leisure time, and newly developed traditions. __Credit Hours: 3 hrs __Prerequisites: TS505

STS 521 - Women and Technology

This course surveys gender issues surrounding technology development, transfer and use. We will examine the gender implications of technologies used in everyday life, particularly those that apply to work, health, reproduction, education, and communication. Historical and cross-cultural/global perspectives will be integrated into course themes. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with WGST521.

STS 528 - Technology, Gender and Pop Culture

The application of pop cultural theory and practice provides in-depth understanding about the impact of technology on cultural definitions of masculine and feminine identity. Critical examination of film, literature and material culture, reflects ideas about whether technologies are themselves gendered and how gendered perceptions and stereotypes promoted by technological ideologies reveal individual and community values. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with WGST528.

STS 587 - Cooperative Education in Interdisciplinary Technology

Co-op is an educational strategy that integrates classroom theory with a semester of paid work experience in an area related to the student’s field of study. Work sites must be approved by the coordinator of Cooperative Education and the Department of Interdisciplinary Technology. Additional assignments may be required. __Credit Hours: 3 hrs __Prerequisites: department permission

STS 590 - Special Topics

Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

STS 591 - Special Topics

Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs
STS 592 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

STS 593 - Special Topics
Content will change from semester to semester. An experimental course for subject matter not yet provided in other program offerings. Students may elect this course more than once, provided different topics are covered. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs

STS 597 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 1 hr _Prerequisites: department permission

STS 598 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 2 hrs _Prerequisites: department permission

STS 599 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

STS 601 - Multidisciplinary Seminar in Technology
A multidisciplinary seminar, which explores different philosophic and discipline-based perspectives of technology around a special topic. Usual format is a lecture series with outside speakers held at a conference center. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit if course content is different.

STS 602 - Contemporary Issues in Technology
An in-depth examination of a particular issue (or set of related issues), usually of topical interest, related to technology and society. This course generally will take place in business and industry settings. __Credit Hours: 2 hrs _Prerequisites: TS505 or department permission. _Repeatable: May be repeated for credit if course content is different.

STS 609 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

STS 619 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 1 hr _Prerequisites: department permission

STS 629 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 2 hrs _Prerequisites: department permission

STS 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion.

STS 649 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Repeatable: May be repeated for credit if course content is different.

STS 659 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit if course content is different.

STS 669 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit if course content is different.

STS 679 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit if course content is different.

STS 689 - Special Topics
An experimental course for subject matter not provided in other school offerings. The content will change from semester to semester. Students may elect this course several times, provided different topics are studied. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Repeatable: May be repeated for credit if course content is different.

STS 699 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 1 hr _Prerequisites: department permission

STS 698 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 2 hrs _Prerequisites: department permission

STS 697 - Independent Study
Opportunities are provided for the selection and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

STS 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 3 hrs _Prerequisites: department permission

STS 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. __Credit Hours: 3 hrs _Prerequisites: department permission

STS 680 - Technology Assessment
A survey of the field of technology assessment that includes theoretical bases, unique modes of inquiry, major assumptions, institutional activities, major problems and future trends. __Credit Hours: 3 hrs _Prerequisites: TS505 and TS506
and completion of an individual project under the direction of a University faculty member. An approved written proposal is required. __Credit Hours: 3 hrs _Prerequisites: department permission

**TS 505 - Introduction to Technology and Society**

Introduction to issues and analytical frameworks pertaining to technology and society. Through interdisciplinary contemporary and classic readings, discussions (online and classroom) and research, the class will explore the intellectual, cultural and ethical issues concerning the relationships of technology to society; emphasis on examination of workplace technology, information technology, instructional technology, medical technology and agriculture biotechnology with a focus on ethical dilemma arising from ill-conceived technology design and use. __Prerequisites: graduate standing

**TS 506 - Patterns of Change in Technology and Culture**

An overview of significant patterns of change in the relationship between American technology and culture. An interdisciplinary review of the reception and diffusion of technological developments within a societal and cultural context. Includes examination of advancement, acceptance, or rejection of technology implicit throughout the history of American progress. __Credit Hours: 3 hrs

**TS 507 - Modernity and Technology**

Introduction to empirical approaches to assessing technology including various methodological and statistical approaches for conducting research within society, the community and organizations. The Statistical Package for the Social Sciences will be introduced and used for basic descriptive and explanatory statistical calculations. __Credit Hours: 3 hrs _Prerequisites: TS505 and TS506

**TS 697 - Proposal Development**

Guides student through the steps of creating a proposal for either capstone/research project or thesis; includes generating a thesis question or hypothesis, beginning a literature review, designing a methodology, including how data or information would be collected, and what statistical analysis might be done. Draft of survey is used. __Credit Hours: 1 hr

**TS 699 - Capstone Project**

Provides opportunity for students to gain competencies in quantitative, qualitative or applied research by implementing project proposal completed in TS691 Proposal Development. Expansion of proposal sections with expanded literature review, details of methodology, findings and conclusions expected. __Credit Hours: 3 hrs _Prerequisites: department permission

**Social Work**

**SWRK 413 - Women and Aging**

Designed to provide social work, women’s studies, and gerontology students with the skills and sensitivity to understand the issues, needs and positive attributes of women as they grow older. Students will examine the lives of women in special groups, such as older minority women, caregivers, widows and institutionalized elderly women. Students will learn skills to provide effective services to older women in a variety of human service settings. __Credit Hours: 3 hrs _Prerequisites: social work major or minor or department permission _Cross-listed: This course is cross-listed with WGST413 _Notes: This is an undergraduate course available for graduate credit.

**SWRK 460 - The Law and Social Work with the Family**

Social workers and lawyers frequently find themselves working together dealing with issues and problems involving individuals and families, such as in cases of divorce, child abuse and neglect, child custody, delinquency and mental health. Legal and social work perspectives in terms of client rights, needs and professional goals. Social work practice in the family court arena. __Credit Hours: 3 hrs _Prerequisites: social work major or minor or department permission _Notes: This is an undergraduate course available for graduate credit.

**SWRK 435 - Group Work with Children and Families**

Social group work theory and practice as a relevant way to work with children and families. Group process as it occurs in natural settings. __Credit Hours: 3 hrs _Prerequisites: social work major or minor or department permission _Notes: This is an undergraduate course available for graduate credit.
SWRK 463 - Social Work Practice with Legal Offenders
Professional roles and appropriate practice skills utilized by social workers and allied professionals in working with legal offenders. __Credit Hours: 3 hrs __Prerequisites: social work major or minor or department permission __Notes: This is an undergraduate course available for graduate credit.

SWRK 502 - Social Work Profession and Services
Designed to provide students with an overview of social work, socialization to the profession and an understanding of social work ethics. Content includes history and analysis of the profession; its scope, methods, values and organization of services. It will focus on practice in a variety of settings with oppressed populations. __Credit Hours: 3 hrs __Prerequisites: admission to M.S.W. program

SWRK 506 - Human Behavior and the Social Environment I: Individuals and Families
This course provides a foundation of biopsychosocial knowledge related to individuals and families. It includes developmental stages, predictable life cycle changes, crises, theories of personality and family functioning, and factors promoting strengths and resilience. __Credit Hours: 2 hrs __Prerequisites: social work students only

SWRK 507 - Human Behavior and the Social Environment II: Groups, Organizations and Communities
This course provides foundation knowledge about the behavior and development of groups, organizations and communities. The impact of mesosystems and macrosystems upon individuals’ and families’ experiences is also explored. __Credit Hours: 2 hrs __Prerequisites: SWRK506

SWRK 510 - Generalist Practice I
The focus will be on relationship building and communication skills to engage and assess different sized systems (e.g., families, individuals, groups, organizations, communities). Emphasis will be on the helping process, information gathering, assessment and contracting. Written skills common to social work will also be emphasized. __Credit Hours: 3 hrs __Prerequisites: SWRK507

SWRK 520 - Generalist Social Work Practice
This course introduces the student to a generalist and ecological systems approach to practice in which the social worker is seen as a change agent, the client is seen as a client system and the two work together to effect change with a target system that may or may not be synonymous with the client system. The student will learn ways of assessing various sized systems, how to develop a plan of action and how to negotiate a contract for service. A variety of intervention strategies will be introduced. Termination, follow-up and evaluation complete the phases of the sequential helping process covered in this course. __Credit Hours: 3 hrs __Prerequisites: SWRK510

SWRK 521 - Policy Analysis and Change
This course focuses on current social policy and its intended and unintended effects on client populations. Students will develop skills in both analysis and strategies for policy development and change. __Credit Hours: 3 hrs __Prerequisites: SWRK502

SWRK 526 - People of Color: The Non-deficit Perspective
Examines the social realities in which people of color function, and how these interact with developmental processes to establish the sense of identity. Provides students with a strengths perspective for explaining behavior and integrates this into an ethnic-sensitive approach for practice. __Credit Hours: 2 hrs __Prerequisites: SWRK507

SWRK 528 - Practice with Women
Focuses on women’s unique experience in society and women’s issues, including violence, sexual exploitation, mental illness, poverty, homelessness and chemical dependency. __Credit Hours: 2 hrs __Prerequisites: SWRK507

SWRK 530 - Social Work Research Methodology
This course is designed to provide students with an introduction to statistics and research methods. Students will be introduced to quantitative and qualitative methods in the human services, and the use of the computer in data analysis and management. __Credit Hours: 3 hrs __Prerequisites: SWRK506

SWRK 540 - Policies and Issues in Services to Families
The course will examine in depth the field of family and children’s services through the process of identifying and analyzing issues crucial to the field, analyzing policies and legislation, and critically examining processes integral to the service delivery structure. __Credit Hours: 3 hrs __Prerequisites: SWRK610

SWRK 541 - Specialized Services for Families with Children in Placement
This course provides practice knowledge and skills in working with families where out-of-home placement has become necessary, and children are in foster care, group, residential or adoptive settings. Emphasis will be on preventing placement, and planning for permanence for children. The social worker’s role in serving families where placement has occurred and children in placement will be the primary focus. __Credit Hours: 3 hrs

SWRK 543 - Practice with Children and Youth
This course enables students to engage,
assess and intervene on behalf of maltreated children and youth. Special developmental issues and needs will be examined. Strategies and roles of practice with children in their own families, foster and adoptive homes, and residential settings will be addressed. __Credit Hours: 2 hrs

SWRK 546 - Law and Family
Social workers and lawyers frequently find themselves operating together around issues and problems involving individuals and families, as in cases of divorce, child abuse and neglect, child custody, delinquency and mental health. The student will examine both legal and social work perspectives in terms of clients’ rights and needs, and professional goals. Particular attention will be paid to areas of possible conflict. Use of the court and legal authority in family affairs will be explored. Racism and sexism in relationship to the law and to the social work component of legal institutions will be considered. __Credit Hours: 3 hrs

SWRK 550 - Working with Aging People
This course is designed to provide social work students and students in related disciplines with the sensitivity, knowledge and skills necessary to enhance their understanding of the pleasures, problems and needs of aging people and to develop their effectiveness in providing services to, and working with, aging individuals, families, groups, agencies and communities. This course will focus on the role of the human service provider in relation to the direct provision of services. It will examine the political and psychosocial factors that effect the availability, provision and acceptance of such services. __Credit Hours: 3 hrs

SWRK 552 - Policy Issues and Older People
This course is designed to introduce students to basic policy concepts and to familiarize them with major aging policies, including the Older Americans Act, Social Security and Medicare. Also, the student will explore various key policy issues such as housing, health care, retirement and pensions. Programs and services that evolve out of aging policy initiatives will be considered. __Credit Hours: 3 hrs __Prerequisites: SWRK610

SWRK 553 - Ethnicity and Gender Issues Among the Aged
This course will examine research pertaining to gender and minority group differences in the aging process, and the implications for social work practice. __Credit Hours: 2 hrs

SWRK 555 - Social Work with Groups
This course provides and explores the practice principles associated with social work with groups. Students learn how to analyze group situations, intervene at both the group and individual levels and how to develop mutual aid and empowerment among the members of a social work group. __Credit Hours: 2 hrs __Prerequisites: Admission to Masters in Social Work or permission of the instructor

SWRK 560 - Case Management
The course is based on a six-stage model of case management which includes: engaging, assessing, planning, accessing resources, coordinating and disengaging. It is designed to provide an understanding of the theoretical basis of the model and to discuss a context for the main focus of the course, which is on methods that can have practical application to case management in a variety of fields. The course offers hands-on experiences in a variety of techniques. __Credit Hours: 3 hrs

SWRK 562 - Practice with Lesbian, Gay, Bisexual and Transgender Persons
This course exposes students to a wide array of life experiences of lesbian, gay, bi-attractive and transgender persons by listening to their own words-spoken, written, on film and through personal interviews. It develops a deeper contextual knowledge and understanding of life courses taken by sexual minorities. __Credit Hours: 3 hrs __Prerequisites: Admission to Masters in Social Work or department permission _Cross-listed: This course is cross-listed with WGST562.

SWRK 570 - Supervising Staff and Volunteers
Models of supervision and the roles of the social services supervisor will be examined. Attention will be given to the basic knowledge, skills and values required for effective supervision and mid-level management of social services agencies. The course will review supervisory and managerial activities, such as planning, program implementation, marketing, program evaluation, budgeting, leadership, conflict resolution and consultation. The role of the supervisor in utilizing supervision will also be examined. __Credit Hours: 3 hrs

SWRK 575 - Working with Youth in Care
Students explore the effects of child abuse and placement on adolescent development and necessary worker skill adaptations. The course sensitizes students to the unique needs of older youth in foster care/group living and explores strength-based/youth development approaches to service. Skills needed for social work and residential practice are developed. __Credit Hours: 2 hrs

SWRK 588 - Field Professional Experience I
The field placement agency in consultation with the Department of Social Work provides a generalist learning experience and supervision that are appropriate to the objectives of the graduate program and to the level of the student’s knowledge and capacity. Students spend 16 hours per week in the field placement setting. A weekly seminar relating field learning to classroom content is an integral part of this course. __Credit Hours: 4 hrs __Prerequisites: SWRK510

SWRK 589 - Field Professional Experience II
The field placement agency in consultation with the Department of Social Work provides a generalist learning experience and supervision that are appropriate to the objectives of the graduate program and to the level of the student’s knowledge and capacity. Students spend 16 hours per week in the field placement setting. A weekly seminar relating field learning to classroom content is an integral part of this course.
SWRK 590 - Special Topics
Special topics integral to contemporary social work will be presented. The content and form of this course will vary, and will typically consider topics not given in usual course offerings. Since the topics change, students may take the course more than once. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

SWRK 591 - Proseminar: Research and Diversity
The advanced standing proseminar in research and diversity is designed to prepare advanced standing social work students with the art knowledge about social work research methods, people of color and women. The course emphasizes research methods and analytic approaches in the exploration of theory and issues affecting service delivery to people of color and to women. From this critical review, students will develop and refine knowledge and skills necessary for non-deficit, strength based practice with people of color and women. __Credit Hours: 2 hrs

SWRK 592 - Special Topics: Family and the Social Environment
This course covers basic human behavior theory related to families and children in their social environment. It will examine the diverse forms and structures of families as well as issues facing families in contemporary society. __Credit Hours: 3 hrs _Prerequisites: SWRK610 and M.S.W. concentration in families and children

SWRK 597 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SWRK 598 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SWRK 599 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

SWRK 602 - Community Building
Community building strengthens ties between groups and organizations for collaborating on goals such as economic development or the development of social services. Social work community practice methods for professional and civic activity will be covered, such as articulating issues, analyzing action proposals, developing leadership, networking and coalition building. __Credit Hours: 2 hrs

SWRK 610 - Empowerment: Social Justice and Social Change
Focuses on the societal forces contributing to oppression, and the resulting impact on individuals, communities and society. Concepts of social justice and empowerment as they relate to gender, race, class, age, sexual orientation and mental and physical status will be organizing themes. Skills will be developed in the range of social change intervention. __Credit Hours: 2 hrs _Prerequisites: SWRK589 or SWRK591

SWRK 630 - Action Research
This covers procedures for conducting quantitative and qualitative research to social program evaluation and social practice. Planning will take place for a research project that will be initiated and completed in SWRK692. __Credit Hours: 3 hrs _Prerequisites: SWRK610

SWRK 639 - Continuous Enrollment
Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment. Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr _Prerequisites: department permission _Notes: Credit will not apply toward degree completion

SWRK 643 - Families in the Social Environment
This is the advanced Human Behavior in the Social Environment course for MSW students in the Child and Family concentration. This course explores the social work theories of families within the context of social, cultural and geographic communities examining the relationship between families and the broader society. Available only to students in the Master of Social Work with a Child and Family concentration. __Credit Hours: 3 hrs _Prerequisites: SWRK610 _Corequisite: _SWRK540

SWRK 644 - Family-Centered Practice
(Previously SWRK542)
Students will deepen their understanding of the family as a social psychological system that must meet the needs of both adults and children. In developing and implementing services to families and children, the prevention of placement, whenever possible, is seen as a primary goal. The course will enhance practice knowledge and skills in delivering preventive, supportive, therapeutic and supplementary services to families in need of help. Particular attention will be given to working with vulnerable families in which children have been identified as neglected or abused. __Credit Hours: 3 hrs _Prerequisites: SWRK592

SWRK 650 - Policy Issues in the Health Care Setting
This course will cover historical developments in the formation of mental health and substance abuse policy in the United States. Current policy directives will be analyzed with a focus on their impact on society in general and specifically on the severely mentally ill, those with dual problems of mental illness and substance abuse, people of racial and ethnic minorities, children, the elderly and women. __Credit Hours: 3 hrs _Prerequisites: SWRK610

SWRK 652 - Dynamics and Practice: Mental Illness Services
This advanced knowledge and practice course is required in the chemical dependency and mental illness rehabilitation services concentration. A biopsychosocial model provides the framework for understanding the dynamics involved in mental illness and unusual disorders. Special attention will be given to gender, sexual orientation, race, culture and class. __Credit Hours: 3 hrs _Prerequisites: advanced program graduate students in social work, SWRK588/589, SWRK610 and department permission required

SWRK 653 - Dynamics and Practice: Chemical Dependency Services
This advanced knowledge and practice course is required in the chemical dependency and mental illness rehabilitation services concentration. A biopsychosocial model provides the framework for understanding the dynamics involved in chemical dependency and abuse. Special attention will be given to gender, sexual orientation, race, culture and class. Department permission required. __Credit Hours: 3 hrs _Prerequisites: advanced program graduate students in social work, SWRK588/589, SWRK610

SWRK 656 - Crisis Intervention
This course will give the student an introduction to the history and theory of crisis intervention; characteristics of being in a crisis state or a condition that puts the person, group or community in a crisis or at risk for crisis; and detailed information on specific crisis situations. The class will view crises from ecological systems and strengths perspectives. Instructions for intervention methods will draw on individual strengths and environmental systems. __Credit Hours: 2 hrs

SWRK 658 - Chemical Dependency and Addictions
Critical examination of current approaches for treatment and prevention of drug and alcohol dependency in the context of culture and gender. The physiological, psychological and social impact of chemical dependency will be explored. __Credit Hours: 3 hrs

SWRK 662 - Grant Writing and Resource Development
Resource development strategies will be examined for implementing creative human services programs. Students will learn to assess resources within a community, plan and develop networks to address unmet needs, locate funding opportunities and complete a grant-writing and/or fund-raising project. __Credit Hours: 3 hrs

SWRK 665 - Social Work Practice in Behavioral Health
This course provides students with knowledge and skills to become competent practitioners in behavioral health social service delivery. Students learn how social workers provide behavioral health services to individuals, families and communities. Practice demonstrations are required, utilizing theoretical and science-based knowledge and skills to help behavioral health consumers via social work case management methods. Available only to students in the School of Social Work or in the College of Health and Human Services or Social Sciences with the permission of the instructor and relevant school/department heads. __Credit Hours: 2 hrs _Prerequisites: department permission

SWRK 670 - Social Work Services in Schools
This course introduces policies and programs designed to help children and youth obtain an education. Students explore the structure and history of education in relation to social work practice. Legislative, social justice, professional and other implications are discussed in relation to educational trends, issues and services. __Credit Hours: 3 hrs _Prerequisites: must be admitted to the Master of Social Work program

SWRK 671 - Social Work Assessment of Children and Youth
This course prepares social work students for the specific assessment procedures associated with learning and behavioral assessments in the school system. With consideration for socioeconomic and social injustices, students learn about educational testing and how to integrate educational tests in social work assessment and school-based practice. __Credit Hours: 2 hrs _Prerequisites: SWRK670 and students must be enrolled in the Master of Social Work program

SWRK 672 - School Social Work with Children with Educational Disabilities
This class provides students with social work knowledge and skills for serving students with educational impairments. Current legislation, the dynamics of educational impairment, critical partnerships and strategies of intervention are explored. Issues of labeling and testing are discussed in light of social, economics, racial and ethnic diversity. __Credit Hours: 2 hrs _Concurrent Prerequisite: _SWRK670

SWRK 679 - Special Topics
Special topics integral to contemporary social
work will be presented. The content and form of this course will vary, and will typically consider topics not given in usual course offerings. Since the topics change, students may take the course more than once. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

SWRK 680 - Special Topics
Special topics integral to contemporary social work will be presented. The content and form of this course will vary, and will typically consider topics not given in usual course offerings. Since the topics change, students may take the course more than once. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

SWRK 680 - Special Topics: Social Work Practice in Kinship Care
This course examines the role of kinship care as part of the continuum of child welfare services. Students will come to understand diverse family structures and the importance of the kinship network, particularly for families of color. A major focus of the course will be on practice skills such as assessment, community resources and effective case management. __Credit Hours: 2 hrs

SWRK 681 - Special Topics
Special topics integral to contemporary social work will be presented. The content and form of this course will vary, and will typically consider topics not given in usual course offerings. Since the topics change, students may take the course more than once. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

SWRK 681 - Special Topics: American Indian World — Past, Present and Future
The plight of American Indians will be examined through law and history. By assessing the Indian "world view," students will discover the chasms between European and Indian concepts. This course provides knowledge of America’s least-known minority. __Credit Hours: 3 hrs

SWRK 681 - Special Topics: Dynamics of Mental Illness and Chemical Dependency
This course will cover basic human behavior theory related to both mental illness and chemical dependency. This will include biological, psychological and social factors in etiology. Diagnostic categories of psychopathology, and the major categories of drugs typically abused will be examined. __Credit Hours: 3 hrs

SWRK 681 - Special Topics: Self-Help and Support Groups
This course introduces students to theory, research and practice principles related to self-help and support groups. Healing, other group-level factors, member participation and practitioner roles will be addressed. __Credit Hours: 3 hrs

SWRK 681 - Special Topics: Social Work Administration
This course is an administrative practice course focusing on task groups and organizations. Practice methods in leadership and management grounded in group and organization theory will be emphasized. The course will address specific skills in forming and working with committees and boards of directors, organizational leadership, marketing, personnel and conflict resolution. __Credit Hours: 3 hrs

SWRK 688 - Field Experience III
Students are required to complete three consecutive semesters (fall, winter, spring) of advanced field placement in agency-based practice within their areas of concentration, arranged by the School’s Field Placement Office. SWRK688/689/690 requires 500 hours of field placement scheduled at 16 hours per week, participation in weekly seminar, and completion of related assignments. The focus is on advanced specialized practice that empowers oppressed populations. __Credit Hours: 4 hrs _Prerequisites: department permission _Concurrent Prerequisite: _SWRK610 and SWRK644 or SWRK652 and SWRK653 or SWRK550

SWRK 689 - Field Experience IV
Students are required to complete three consecutive semesters (fall, winter, spring) of advanced field placement in agency-based practice within their areas of concentration, arranged by the School’s Field Placement Office. SWRK688/689/690 requires 500 hours of field placement scheduled at 16 hours per week, participation in weekly seminar, and completion of related assignments. The focus is on advanced specialized practice that empowers oppressed populations. __Credit Hours: 4 hrs _Prerequisites: department permission _Concurrent Prerequisite: _SWRK610 and SWRK644 or SWRK652 and SWRK653 or SWRK550

SWRK 690 - Field Experience V
Students are required to complete three consecutive semesters (fall, winter, spring) of advanced field placement in agency-based practice within their areas of concentration, arranged by the School’s Field Placement Office. SWRK688/689/690 requires 500 hours of field placement scheduled at 16 hours per week, participation in weekly seminar, and completion of related assignments. The focus is on advanced specialized practice that empowers oppressed populations. __Credit Hours: 2 hrs _Prerequisites: department permission _Concurrent Prerequisite: _SWRK610 and SWRK644 or SWRK652 and SWRK653 or SWRK550

SWRK 692 - Research Project
Provides an opportunity for practitioners to gain research competencies that are both quantitative and qualitative. The completion of an action research project culminates the
SWRK 694 - Community Action Seminar
This is a capstone course for integrating multidisciplinary courses with community building. Students design a community and apply social work methods of community practice to complete it. The seminar’s networking and collaboration supports the diverse community building activities or participants. __Credit Hours: 2 hrs _Prerequisites: SWRK602

SWRK 697 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

SWRK 698 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

SWRK 699 - Independent Study
Intensive study in areas not provided in other courses, or advanced study in areas of special interest to the student, under the direction of a social work faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission

Technology Education

TEDU 500 - Crafts
Basic craft ideas of wood, metal, graphics, plastics, leather and ceramics are explored. Additional elective areas also are available. Not open to departmental majors. __Credit Hours: 2 hrs

TEDU 501 - Crafts for Special Education
The development of craft activities to supplement the curriculum and provide therapeutic manipulative experiences and leisure activities in the special education classroom. Emphasis is given to the identification of industrial employment opportunities. Not open to departmental majors. __Credit Hours: 2 hrs

TEDU 502 - Career Education for the Elementary Child
A study of the concepts and methods used to develop an awareness of the careers of society with elementary school children. Emphasis is on individual and group activities relevant to integrated curriculum studies. Also open to departmental majors. __Credit Hours: 2 hrs

TEDU 515 - Energy Educators Workshop I
This course provides students with the background necessary to understand current issues in domestic electric energy production. Students tour major power plants, nuclear facilities and renewable energy sources. Demonstrations on topics such as power line safety, ecology and geology of natural gas storage are provided by DTE Energy personnel. Lectures by EMU faculty provide historical and theoretical background. __Credit Hours: 1 hr _Prerequisites: department permission

TEDU 520 - Technology Education for Teachers
Concepts and activities related to technological literacy, including the use of tools, processes, systems, and impacts of technology. State and federal legislation, education regulations, and national standards discussed. __Credit Hours: 3 hrs

TEDU 523 - Technological Systems
The description of technological systems utilized in physical, informational and bio-related domains of human activity. Opportunity to apply system software to manipulate technical devices found in technology education classrooms and laboratories. __Credit Hours: 2 hrs

TEDU 524 - Computer Applications for Vocational-Technical Instruction
Description and illustration of computer hardware and software for vocational-technical education. Mainframe and microcomputer systems will be reviewed. Opportunity to prepare and develop computer instructional materials for the microcomputer. __Credit Hours: 2 hrs _Prerequisites: technology education majors or graduate standing

TEDU 525 - Robotics Applications in Technology Education
An overview of the history, principles of operation, manufacture and use of robots and robotic systems. Emphasis provided to the analysis of these topics for programs of study in technology and industrial-vocational education. __Credit Hours: 2 hrs _Prerequisites: technology education majors or graduate standing

TEDU 526 - Energy Educators Workshop II
This course is meant to assist the in-service science or technology teacher to take the materials he or she has learned from TEDU515 Energy Educators Workshop I and integrate them into a unit of study for their science class. __Credit Hours: 2 hrs _Prerequisites: TEDU515 and department permission

TEDU 530 - Technology Education for Teachers
Concepts and activities related to technological literacy, including the use of tools, processes, systems, and impacts of technology. State and federal legislation, education regulations, and national standards discussed. __Credit Hours: 3 hrs

TEDU 550 - Development of Technology Education
The historical development of industrial education programs; the influence of industrial, technological and societal change; institutions, professional associations, movements and leaders in the field. __Credit Hours: 2 hrs

TEDU 587 - Cooperative Education in Technology Education
A cooperative education experience integrating classroom theory with a paid work experience in an area related to the student’s field of study. Work sites must be approved by the coordinator of cooperative education. __Credit Hours: 3 hrs
education and the Business and Technology Education Department. Additional assignments may be required. __Credit Hours: 3 hrs _Prerequisites: department permission.

TEDU 650 - Industrial Education in Colleges and Universities
The philosophy, history and development of industrial teacher education programs; current trends in selected institutions. __Credit Hours: 2 hrs

TEDU 652 - Technical Programs in Community Colleges
Nature, scope and functions of vocational and technical programs in community colleges; recent developments. __Credit Hours: 2 hrs

TEDU 655 - Supervision of Technology Education
Principles and problems involved in the improvement of instruction in technology education. Open to majors in technology education and to majors in administration. __Credit Hours: 2 hrs

TEDU 663 - Instructional Media in Technology Education
Recent developments in instructional media and technology, the relationship of media to the psychology of learning, and implications for programs of technology education. __Credit Hours: 2 hrs

TEDU 664 - Laboratory Planning
Analysis of space and equipment requirements of technology and industrial-vocational education laboratories. Consideration of specific functions, safety, efficiency, location and design as they relate to educational philosophy and objectives. __Credit Hours: 2 hrs

TEDU 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in career, technical and workforce education. __Credit Hours: 2 hrs

TEDU 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in career, technical and workforce education. __Credit Hours: 2 hrs

TEDU 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in career, technical and workforce education. __Credit Hours: 3 hrs

TEDU 682 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 2 hrs

TEDU 683 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 2 hrs

TEDU 684 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 3 hrs

TEDU 685 - Workshop
Students will be provided focused practical and theoretical study in a selected topic area in career, technical and workforce education. __Credit Hours: 4 hrs

TEDU 686 - Practicum in Technology Education
An examination and evaluation of a variety of instructional methods. Direct experiences are provided in developing and utilizing instructional materials. __Credit Hours: 2 hrs

TEDU 688 - Internship in Technology Education
A supervised experience in education. Opportunities are provided for directing a variety of teaching-learning experiences contracted with a University faculty member. __Credit Hours: 2 hrs

TEDU 690 - Thesis
A research-based study conducted under the supervision of a University graduate faculty member and departmental graduate committee, under the guidelines described in the EMU Technology Education Thesis Manual. __Credit Hours: 1 hr _Prerequisites: department permission

TEDU 691 - Thesis
A research-based study conducted under the supervision of a University graduate faculty member and departmental graduate committee, under the guidelines described in the EMU Technology Education Thesis Manual. __Credit Hours: 2 hrs _Prerequisites: department permission

TEDU 692 - Thesis
A research-based study conducted under the supervision of a University graduate faculty member and departmental graduate committee, under the guidelines described in the EMU Technology Education Thesis Manual. __Credit Hours: 3 hrs _Prerequisites: department permission

TEDU 697 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" (technical study without the prerequisite of TEDU677) and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 1 hr _Prerequisites: department permission; topics must be approved by the department during the semester prior to the study

TEDU 698 - Independent Study
Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" (technical study without the prerequisite of TEDU677) and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 2 hrs _Prerequisites: department permission; topics must be approved by the department during the semester prior to the study

TEDU 699 - Independent Study

Opportunities are provided for the selection and completion of an individual study under the direction of a University faculty member. An approved written proposal is required. Both "Independent Study" (technical study without the prerequisite of TEDU677) and "Research Proposal Format" guideline sheets are available from the department. __Credit Hours: 3 hrs _Prerequisites: department permission; topics must be approved by the department during the semester prior to the study

Therapeutic Recreation

THRC 510 - Leisure and Aging

An elective course for Recreation majors, Gerontology minors, and the Graduate Gerontology Certificate program. Course will provide an overview of physical, psychological, and affective characteristics of older adults; implications of leisure and retirement; and recreation services provided in institutional and community settings. __Credit Hours: 3 hrs

Technology Management

TM 415 - Senior Seminar in Technology Management

This course will allow students to synthesize the structure and procedures of strategic management and project management. The course will integrate the ideas and information presented in other courses within the technology management concentration core. Students will demonstrate their ability to integrate information ascertained from previous classes within a capstone project. __Credit Hours: 3 hrs _Prerequisites: TM130 _Notes: This is an undergraduate course available for graduate credit.

TM 510 - Principles of Managing Technological ENTERPRISES

Characteristics of high-tech markets; motivating high-tech researchers and developers; manufacturing products with short life cycles, finance and planning in a high-tech environment; attracting and keeping the best human resources. __Credit Hours: 3 hrs _Prerequisites: TS505 or department permission

TM 555 - Technology and Organization

Development, analysis and theory of technological organizations, as well as practical problems confronting technological managers at a time of transition, as exemplified by leading U.S. and Japanese corporations. __Credit Hours: 3 hrs _Prerequisites: graduate standing in interdisciplinary technology or department permission

TM 560 - Technology and Labor Relations

This course examines the dynamics of technological change from a labor-management perspective, using historical and contemporary examples of both confrontational and collaborative approaches. __Credit Hours: 3 hrs

TM 565 - Technology and Training

This course examines the role of training in our national policy, and identifies training practices in today's "high-performance" workplaces. __Credit Hours: 3 hrs

TM 587 - Co-operative Education

Credit Hours: 3 hrs

TM 590 - Special Topics

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

TM 591 - Special Topics

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: graduate standing or department permission

TM 592 - Special Topics

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: graduate standing or department permission

TM 593 - Special Topics

Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 4 hrs _Prerequisites: graduate standing or department permission

TM 597 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 1 hr _Prerequisites: department permission

TM 598 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 2 hrs _Prerequisites: department permission

TM 599 - Independent Study

An intensive study of a problem or group of problems under the direction of a University faculty member. __Credit Hours: 3 hrs _Prerequisites: department permission
TM 615 - Planning and Implementing Technological Change
The course addresses principles and theories of technological innovation, partnership approaches to technology planning and implementation and best-practice scenarios at each stage of the technology adoption life cycle. Students will apply the principles learned to the analysis of case studies and workforce practices. _Prerequisites: department permission__ Credit Hours: 3 hrs

TM 679 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. _Prerequisites: department permission__ Credit Hours: 1 hr

TM 680 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. _Prerequisites: department permission__ Credit Hours: 2 hrs

TM 681 - Special Topics
Provides for intensive study of selected topics drawn from current developments in the total field of business education. Not more than six hours of special topics may be used on a degree program. _Prerequisites: department permission__ Credit Hours: 3 hrs

TM 690 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. _Prerequisites: department permission__ Credit Hours: 1 hr

TM 691 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. _Prerequisites: department permission__ Credit Hours: 2 hrs

TM 692 - Thesis
Completion of research problem, writing thesis and defense of thesis. Offered on a credit/no credit basis. _Prerequisites: department permission__ Credit Hours: 3 hrs

TM 697 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Prerequisites: department permission__ Credit Hours: 1 hr

TM 698 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Prerequisites: department permission__ Credit Hours: 2 hrs

TM 699 - Independent Study
An intensive study of a problem or group of problems under the direction of a University faculty member. _Prerequisites: department permission__ Credit Hours: 3 hrs

Teaching English as a Second Language

TSLN 410 - TESOL Methodology: Content-Based Approaches
This course focuses on applying principles of English language instruction within content courses. Emphasis is placed on teaching students to use research-based methods of teaching language components (i.e. grammar, vocabulary and pronunciation) and integrating the 4-skills (listening, speaking, reading, writing) with teaching specific content (e.g. science, social studies). _Prerequisites: TSLN330 and TSLN332__ Notes: This is an undergraduate course available for graduate credit.

TSLN 500 - Observation and Analysis of ESL Programs
Observations of ESL classes in varied contexts, and practice in using different types of observation instruments. Seminar topics focus on ESL classrooms, noting differences for ESL classrooms. _Prerequisites: department permission__ Credit Hours: 2 hrs

TSLN 501 - Theoretical Foundations of Second-Language Pedagogy
Overview of the principal theories of language description, language learning and language use, with emphasis on those factors that affect second-language acquisition and learning. _Prerequisites: admission to TESOL MA program or department permission__ Credit Hours: 3 hrs

TSLN 502 - A Pedagogical Grammar and Phonology of ESL
Examines the structure and sound systems of American English as it applies to the teaching and learning of English as a second language. Emphasizes practical aspects of usage. _Prerequisites: admission to TESOL MA program or department permission__ Credit Hours: 4 hrs

TSLN 520 - Foreign Language Testing and Assessment
Examines the role of testing; surveys types of tests; discusses the criteria of a good test; analyzes tasks that variously require listening, speaking, reading, writing and communicative competence; and provides practice in evaluating and constructing test items. _Prerequisites: TESOL MA program or department permission__ Credit Hours: 2 hrs

TSLN 521 - Content-Based Instruction and Materials for English Language Learners
This course explores techniques for integrating the teaching of content and language, and examines materials used by English learners in content-based instruction (CBI). Various models of CBI are examined; curricula are developed to align with the national TESOL and the State of Michigan standards and with other content area standards. _Prerequisites: TSLN501 or TSLN525 and TSLN502__ Credit Hours: 2 hrs

TSLN 525 - Second Language Acquisition for Classroom Teachers
Examines the learning of English, simultaneous with or subsequent to one’s first
language in the K-12 setting in the United States. Linguistic, cognitive, affective, cultural, social and instructional factors will be addressed. __Credit Hours: 3 hrs _Prerequisites: admission to the TESOL graduate certificate program or department permission

TSLN 530 - TESOL Methods: Reading, Writing and Grammar
Examines content and methodology in teaching TESOL reading, writing and grammar to diverse groups of students. Students are expected to investigate different techniques, analyze them and research one area. __Credit Hours: 2 hrs _Prerequisites: TSLN502 and TSLN501 or TSLN525 _Corequisite: _TSLN531

TSLN 531 - TESOL Materials: Reading, Writing and Grammar
This class will provide students with opportunities to review, evaluate and adapt materials for use in teaching reading, writing and grammar to ESOL learners. Students will gain facility in matching and adapting texts and materials to the needs of different kinds of ESOL learners. __Credit Hours: 1 hr _Prerequisites: TSLN502 and TSLN501 or TSLN525 _Corequisite: _TSLN530

TSLN 532 - TESOL Methods: Listening, Speaking and Pronunciation
Examines content and methodology in teaching TESOL listening, speaking and pronunciation to diverse groups of students. Students are expected to investigate different techniques, analyze them and research one area. __Credit Hours: 2 hrs _Prerequisites: TSLN502 and TSLN501 or TSLN525 _Corequisite: _TSLN533

TSLN 533 - TESOL Materials: Listening, Speaking and Pronunciation
This class will provide students with opportunities to review, evaluate, adapt and develop materials for use in teaching listening, speaking and pronunciation to ESOL learners. Students will gain facility in matching and adapting texts and materials to the needs of different kinds of TESOL learners. __Credit Hours: 1 hr _Prerequisites: TSLN501 and TSLN502 _Corequisite: _TSLN532

TSLN 588 - Observation, Analysis and Practicum in ESL Classrooms
This capstone course provides teachers with observation and analysis skills to direct and reflect on their own ESL teaching for this practicum course, as well as with techniques for working with paraprofessionals in ESL/bilingual classrooms in public schools. __Credit Hours: 3 hrs _Prerequisites: TSLN521, TSLN530 and TSLN532

TSLN 590 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr _Prerequisites: department permission

TSLN 591 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs _Prerequisites: department permission

TSLN 592 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

TSLN 593 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

TSLN 594 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 3 hrs _Prerequisites: department permission

TSLN 599 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. Not more than six hours of independent study may be used on a degree program. __Credit Hours: 1 hr

TSLN 679 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 1 hr

TSLN 680 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 2 hrs

TSLN 681 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 682 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 683 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 684 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 685 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 686 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 687 - Special Topics
An intensive study of a specific topic to be determined by the instructor’s field of specialization and student interest. Not more than six hours of special topics may be used on a degree program. __Credit Hours: 3 hrs

TSLN 688 - TESOL Practicum
Supervised practical experience in TESOL appropriate to the student’s intended teaching setting. With the guidance of a trained ESL teacher, the practicum student will select appropriate materials and techniques to develop the necessary skills in the learners, and will then apply them in classroom situations. __Credit Hours: 3 hrs _Prerequisites: TSLN530 and TSLN532
TSLN 694 - Seminar
Different topics are selected each semester for intensive study by advanced students. The course consists of review and discussion of contemporary issues in TESOL, based on research projects and review of the pertinent literature carried out by the student. Emphasis in seminar meetings on exchange of ideas and information developed in the research. __Credit Hours: 2 hrs _Prerequisites: TSLN500, TSLN502, TSLN501 or TSLN525, TSLN530, TSLN531, TSLN532 and TSLN533

TSLN 697 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. __Credit Hours: 1 hr _Prerequisites: department permission _When Offered: Division of Academic Affairs Courses (UNIV)

TSLN 698 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. __Credit Hours: 2 hrs _Prerequisites: department permission _When Offered: Division of Academic Affairs Courses (UNIV)

TSLN 699 - Independent Study
Intensive study of an issue related to the teaching and learning of foreign/second language, under the direction of a member of the graduate faculty. __Credit Hours: 3 hrs _Prerequisites: department permission _When Offered: Division of Academic Affairs Courses (UNIV)

Urban Education

URED 812 - Children and Families in Poverty
Examines the impact of poverty and homelessness on children, youth, families, and communities. The course analysis poverty in relation to public policy, inequality, race and gender discrimination, and addresses critical issues confronting urban educators. There is an emphasis on educational advocacy and the creation of inclusive and diverse learning communities. __Credit Hours: 3 hrs _Prerequisites: Master's degree and admission to Ph.D. program or department permission

URED 813 - Schools as Agencies of Community Collaboration
This course examines various models of school and community collaboration that provide nonacademic services in order to mediate high-poverty and academic success. It examines marginalized urban groups and such specific health, growth and coordination plans and processes as: school linked services, linked services, full service schools and community schools. __Credit Hours: 3 hrs _Prerequisites: Master's Degree and admission to Ph.D. program or department permission; URED812; Students in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs

URED 814 - Teacher Development
This course aims to prepare and strengthen students' understandings of critical issues and best practices in teacher learning and development within multiple contexts of practice. The course analyzes teacher development in relation to varying perspectives on teacher knowledge, and the structures, policies and processes that support teacher learning. __Credit Hours: 3 hrs _Prerequisites: Master's degree and admission to Ph.D. program or department permission; Students in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs

URED 815 - Knowledge, Learning and Pedagogy
An overview of curriculum theory from a multicultural and pluralistic perspective provides doctoral students the skills and knowledge to examine issues related to what is being taught, what should be taught and why one might teach it in higher education and/or in P-12 urban schools contexts. __Credit Hours: 3 hrs _Prerequisites: Master's degree and admission to Ph.D. program or department permission; Students in either the Ph.D. in Educational Studies or the Ed.D. in Educational Leadership programs

Women's and Gender Studies

WGST 413 - Women and Aging
Designed to provide social work, women’s studies, and gerontology students with the skills and sensitivity to understand the issues, needs and positive attributes of women as they grow older. Students will examine the lives of women in special groups, such as older minority women, caregivers, widows and institutionalized elderly women. Students will learn skills to provide effective services to older women in a variety of human service settings. __Credit Hours: 3 hrs _Prerequisites: social work major or minor or department permission. __Cross-listed: This course is cross-listed with SWRK413. _Notes: This is an undergraduate course available for graduate credit.

WGST 426 - Topics in Gender and Philosophy
An examination of gender and its relationship to other issues from a philosophical perspective. Possible topics include rationality, sexuality, aesthetics, ethics and political theory. __Credit Hours: 3 hrs _Prerequisites: two courses in philosophy or instructor permission _Cross-listed: This course is crosse-listed with PHIL426. _Notes: This is an undergraduate course available for graduate credit.

WGST 443 - Women in Literature
A study of women and their experiences as described in literature. __Credit Hours: 3 hrs _Prerequisites: two courses in literature _Cross-listed: This course is cross-listed with LITR443. Notes: This is an undergraduate course available for graduate credit.

WGST 515 - Sociology of Women
The course examines the changing role of women in American institutions, especially in the work force and in the family. Materials on minority and working-class women will be included. __Credit Hours: 3 hrs _Cross-listed: This is a cross-listed course with SOCL515.
WGST 521 - Women and Technology
This course surveys gender issues surrounding technology development, transfer and use. We will examine the gender implications of technologies used in everyday life, particularly those that apply to work, health, reproduction, education, and communication. Historical and cross-cultural/global perspectives will be integrated into course themes. __Credit Hours: 3 hrs __Cross-listed: This is cross-listed with STS521.

WGST 522 - Globalization: Race/Ethnicity, Class and Gender
This course provides critical perspectives on the globalization process with race/ethnicity, class, and gender as the central themes. Topics may include: theoretical issues pertaining to the study of globalization; production and reproduction in the global economy; paid and unpaid labor and its relationship to globalization; development experience in East Asia and Russia; alternatives to corporate globalization; the reclaiming of the "commons"; global environmental issues raised by the consideration of race/ethnicity, class, and gender. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with SOCL522/ANTH522.

WGST 525 - Technology, Social Change and the Role of Women
This course examines the nature, origins and development of technology and its impact on women in the United States and Europe. We will explore problems stemming from current technological advances. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with HIST525.

WGST 526 - Topics in Feminist Philosophy
Applies philosophical and feminist perspectives on women to the study of special topics in philosophy. Topics may include: epistemology, science, ethics, law, history of philosophy, multicultural responses to philosophy of women and continental perspectives. __Credit Hours: 3 hrs __Prerequisites: WGST550

WGST 528 - Technology, Gender and Pop Culture
The application of pop cultural theory and practice provides in-depth understanding about the impact of technology on cultural definitions of masculine and feminine identity. Critical examination of film, literature and material culture, reflects ideas about whether technologies are themselves gendered and how gendered perceptions and stereotypes promoted by technological ideologies reveal individual and community values. __Credit Hours: 3 hrs __Cross-listed: This course is cross listed with STS528.

WGST 530 - Women in Film
This course examines relations between women and film. Various techniques for critical analysis are used to study how film represents gender, race, class, sexuality and culture. Possible topics include women as filmmakers, representations of women and women as spectators. __Credit Hours: 3 hrs

WGST 542 - Women and Mental Health
Focus on theory and research concerning women’s responses to life stresses, women as clients in psychotherapy and the role of the female mental health professional. __Credit Hours: 2 hrs __Prerequisites: one course in psychology. __Cross-listed: This course is cross-listed with PSY542.

WGST 544 - Women and Sexual Health
Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 1 hr

WGST 550 - Feminist Thought
Feminist Thought provides a scholarly overview of the literature and methodology of feminist studies in such disciplines as history, psychology, literature, sociology, anthropology, economics, religion, health, law and politics. __Credit Hours: 3 hrs

WGST 555 - Theories of Sexuality
Lesbian, gay and bisexual literature, experience and theories of sexuality in relation to the study of women and gender. __Credit Hours: 3 hrs

WGST 562 - Practice with Lesbian, Gay, Bisexual and Transgender Persons
This course exposes students to a wide array of life experiences of lesbian, gay, bi-attractive and transgender persons by listening to their own words-spoken, written, on film and through personal interviews. It develops a deeper contextual knowledge and understanding of life courses taken by sexual minorities. __Credit Hours: 3 hrs __Prerequisites: department permission __Cross-listed: This course is cross-listed with SWRK562.

WGST 575 - Theories of Sexuality
An interdisciplinary seminar examining lesbian, gay and bisexual literature, experience and theories of sexuality in relation to the study of women and gender. __Credit Hours: 3 hrs

WGST 581 - Gender and Education
This course examines the social construction of masculinity and femininity and its impact on the lives of teachers and students in schools. __Credit Hours: 3 hrs __Cross-listed: This course is cross-listed with SOFD581.

WGST 590 - Special Topics
Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 1 hr

WGST 591 - Special Topics
Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 2 hrs

WGST 592 - Special Topics
Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 3 hrs
**WGST 597 - Independent Study**

Intensive study of a problem or theory relevant to women and gender studies, supervised on an individual basis by a member of the women’s studies faculty. __Credit Hours: 1 hr __Prerequisites: department permission

**WGST 598 - Independent Study**

Intensive study of a problem or theory relevant to women and gender studies, supervised on an individual basis by a member of the women’s studies faculty. __Credit Hours: 2 hrs __Prerequisites: department permission

**WGST 599 - Independent Study**

Intensive study of a problem or theory relevant to women and gender studies, supervised on an individual basis by a member of the women’s studies faculty. __Credit Hours: 3 hrs __Prerequisites: department permission

**WGST 608 - Colloquium: Research on Women’s Issues**

A colloquium exploring research on women’s issues. __Credit Hours: 3 hrs __Prerequisites: WGST550

**WGST 617 - Children in Poverty: Educational Implications**

Course analyzes the critical poverty conditions of young children and families, and implications for educators. Emphasis is on social-psychological development, educational advocacy and interventions that promote understanding of ethnic, cultural and socioeconomic diversity. __Credit Hours: 2 hrs __Cross-listed: This course is cross-listed with EDPS617.

**WGST 639 - Continuous Enrollment**

Graduate students who are completing research (master’s or specialist), capstone or internship experiences and have completed all other graduate program course requirements may remain affiliated with the University through continuous enrollment.

Enrollment enables access to library, health services and other resources. __Credit Hours: 1 hr __Prerequisites: department permission

__Notes: Credit will not apply toward degree completion.

**WGST 660 - Teaching for Social and Ecological Justice**

An advanced course creating bridges between critical and social theories and pedagogical practices leading to democratic, socially and ecologically just communities. The theoretical foundations of multicultural education, critical and feminist pedagogies, eco-justice pedagogy and service learning are examined. Some preparation in critical social theory required. __Credit Hours: 3 hrs __Prerequisites: a graduate-level course in SOFD or women’s studies. __Cross-listed: This course is cross-listed with SOFD660.

**WGST 679 - Special Topics**

Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 1 hr

**WGST 680 - Special Topics**

Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 2 hrs

**WGST 681 - Special Topics**

Course content consists of new topics in women’s and gender studies taught on an experimental basis, changing from one semester to the next. __Credit Hours: 3 hrs

**WGST 686 - Practicum**

This course will provide supervised field placement in places suitable to a candidate’s career goals, including women’s centers, women’s shelters, personnel and administrative units in large corporations, neighboring community colleges and governmental agencies. Paper required. __Credit Hours: 1 hr __Prerequisites: department permission

**WGST 687 - Practicum**

This course will provide supervised field placement in places suitable to a candidate’s career goals, including women’s centers, women’s shelters, personnel and administrative units in large corporations, neighboring community colleges and governmental agencies. Paper required. __Credit Hours: 2 hrs __Prerequisites: department permission

**WGST 688 - Practicum**

This course will provide supervised field placement in places suitable to a candidate’s career goals, including women’s centers, women’s shelters, personnel and administrative units in large corporations, neighboring community colleges and governmental agencies. Paper required. __Credit Hours: 3 hrs __Prerequisites: department permission

**WGST 689 - Practicum**

This course will provide supervised field placement in places suitable to a candidate’s career goals, including women’s centers, women’s shelters, personnel and administrative units in large corporations, neighboring community colleges and governmental agencies. Paper required. __Credit Hours: 4 hrs __Prerequisites: department permission

**WGST 690 - Thesis**

A substantial and original undertaking in scholarly research designed to deepen and focus the student’s interests. The preparation of the thesis will be consistent with the highest professional standards. __Credit Hours: 1 hr __Prerequisites: department permission

**WGST 691 - Thesis**

A substantial and original undertaking in scholarly research designed to deepen and focus the student’s interests. The preparation of the thesis will be consistent with the highest professional standards. __Credit Hours: 2 hrs __Prerequisites: department permission
WGST 692 - Thesis
A substantial and original undertaking in scholarly research designed to deepen and focus the student’s interests. The preparation of the thesis will be consistent with the highest professional standards. ___Credit Hours: 3 hrs ___Prerequisites: department permission

WGST 694 - Final Project
An intensive, individualized research or creative project in women and gender studies, culminating in an appropriate final project. ___Credit Hours: 1 hr ___Prerequisites: WGST550 and department permission

WGST 695 - Final Project
An intensive, individualized research or creative project in women and gender studies, culminating in an appropriate final project. ___Credit Hours: 2 hrs ___Prerequisites: WGST550 and department permission

WGST 696 - Final Project
An intensive, individualized research or creative project in women and gender studies, culminating in an appropriate final project. ___Credit Hours: 3 hrs ___Prerequisites: WGST550 and department permission

WGST 697 - Independent Study
Intensive study of a problem or theory relevant to women’s and gender studies, supervised on an individual basis by a member of the women’s and gender studies faculty. ___Credit Hours: 1 hr ___Prerequisites: department permission

WGST 698 - Independent Study
Intensive study of a problem or theory relevant to women’s and gender studies, supervised on an individual basis by a member of the women’s and gender studies faculty. ___Credit Hours: 2 hrs ___Prerequisites: department permission

WGST 699 - Independent Study
Intensive study of a problem or theory relevant to women’s and gender studies, supervised on an individual basis by a member of the women’s and gender studies faculty. ___Credit Hours: 3 hrs ___Prerequisites: department permission
Course Prefixes

A department prefix or code is used to identify courses offered by Eastern Michigan University:

Academic Affairs Division UNIV
Integrated Marketing Communications IMC
Study Abroad SABR

College of Arts and Sciences CASI
African American Studies AAS
Art ART
Biology BIOL
Botany BOTN
Elementary Science ESCI
Microbiology MICR
Zoology ZOOL

Chemistry CHEM

Communication, Media and Theatre Arts
Communication CTAC
Interpretation/Performance Studies CTAO
Telecommunications and Film CTAT CTAR
Theatre and Educational Drama

Computer Science COSC

Economics ECON

English Language and Literature
Creative Writing CRTW
English Language and Literature ENGL
Linguistics LING
Literature LITR

Foreign Language and Bilingual Studies
Bilingual-Bicultural Education BILN
English for International Students ESLN
General Foreign Language and Bilingual-Bicultural Education FLAN
French FRNH
German GERN
Japanese JPNE
Spanish SPNH
Teaching English as a Second Language (TESOL)  TSLN

Geography and Geology

Earth System Science  ESSC
Geography and Geology  GEOG
Historic Preservation  GHPR
Urban and Regional Planning  GPLN

History and Philosophy

History  HIST
Philosophy  PHIL

Mathematics  MATH

Music and Dance

Dance  DANC
Music  MUSC

*Applied Music has a prefix for each instrument. Refer to the class schedule book for the codes.*

Physics and Astronomy

Astronomy  ASTR
Physics  PHY
Physical Science  PSCI

Political Science  PLSC

Psychology  PSY

Sociology, Anthropology and Criminology

Anthropology  ANTH
Criminology  CRM
Sociology  SOCL

Women's and Gender Studies  WGST

**College of Business  COB**

Accounting and Finance

Accounting  ACC
Decision Science  DS
Finance  FIN

Computer Information Systems  IS
Production/Operations Management  POM
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**College of Education**

Leadership and Counseling

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<td>Physical Impairment or other Health Impairment</td>
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Student Teaching          | EDUC       |

Teacher Education

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**College of Health and Human Services**  

IHHS

Health Promotion and Human Performance

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Health Sciences

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Occupational Therapy OCTH
Therapeutic Recreation Courses THRC
Nursing NURS
Social Work SWRK
Gerontology GERT

College of Technology COT

Engineering Technology

Computer Aided Engineering CAE
Construction Management CNST
Engineering Management EM
Interior Design IDE
Manufacturing MFG
Polymers and Coatings PC
Quality QUAL

Technology Studies

Apparel, Textiles and Merchandising ATM
Aviation Technology AVT
Business Management Marketing and Technology BMMT
Communication Technology CMT
Career, Technical and Workforce Education CTWE
Hotel and Restaurant Management HRM
Information Assurance IA
Industrial Distribution ID
Information Security/Assistance ISEC
Legal Administration LEGL
Network and Information Technology Administration NITA
Public Safety PS
School of Staff and Command SSC
School of Technology Studies STS
Technology Education TEDU
Technology Management TM
Policies Affecting You at EMU

Click on a link to be taken to the entry below.

- Notification of Student Rights under FERPA
- Applicable Laws for Americans with Disabilities
- Residence Hall Eligibility Policy
- EMU Policy on Sexual Harassment
- Grade Grievance Procedure for the EMU Community
- Class Attendance Policy Works for You
- Student Involuntary Administrative Withdrawal
- Student Conduct Code and University Disciplinary Process
  - Section I: Purpose
  - Section II: Responsibility for Implementation
  - Section III: Jurisdiction
  - Section IV: Definitions
  - Section V: Violations
  - Section VI: Sanctions for Misconduct
  - Section VII: Organization of the University Judicial System
  - Section VIII: Rights of Charged Student(s)/Student Organizations in Disciplinary Proceedings
  - Section IX: University Disciplinary Procedures
  - Section X: Special Disciplinary Provisions Governing Acts of Academic Dishonesty
  - Section XI: Special Provisions Governing the University Recognition and Conduct of Greek Letter Social Organizations
  - Section XII: Interim Suspensions and Other Interim Sanctions
  - Section XIII: Emergency Powers of the President
  - Section XIV: Student Disciplinary Files and Records
  - Section XV: Review of the Student Judicial System
- University Alcohol and Other Drug Policy
- EMU Policy on Notification to Parents of Drug and Alcohol Violations
- Tobacco Use Policy
- Acceptable Use of Information Technology Resources

In this section you will find the FERPA law, the Student Code of Conduct, the EMU Alcohol and Other Drug Policy, the Tobacco Use Policy, the Student Involuntary Administrative Withdrawal Policy, the Grade Grievance Procedures, Class Attendance Policy, the EMU Policy on Sexual Harassment and the Residence Hall Eligibility Policy.

These policies will not only serve as an important reference during your University experience, but they will also help you as a student to make informed choices.

Notification of Student Rights under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. **The right to inspect and review the student’s education records within 45 days of the day EMU receives a request for access.**
2. Students should submit to Eastern Michigan University's Office of Records and Registration written requests that identify the record(s) they wish to inspect. A University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
3. **The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading.**
Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed and specify why it is inaccurate or misleading.

If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

4. **The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent.**

One exception which permits disclosure without consent is disclosure to school officials with legitimate education interests. A school official is a person employed by EMU in an administrative, supervisory, academic, research or support staff position (including law enforcement unit personnel and health staff); a person or company with whom EMU has contracted (such as an attorney, auditor or collection agent); a person serving on the Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll. The University may, without the student's permission, release certain information to parents or guardians of students under the age of 21 found responsible for violating any law, rule or University policy pertaining to drugs or alcohol.

EMU has designated the following items as directory information and these items may be included in publications or disclosed upon request without consent: the student's name; address; telephone listing; electronic-mail address; date and place of birth; major field of study; participation in recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees and awards received (including, but not limited to, the Dean's List); and the most recent previous educational agency or institution attended by the student.

EMU reserves the right to make directory information public unless a student's written objection (specifying the category of information not to be made public without prior consent) is filed at the Office of Records and Registration within 14 days after each term begins.

Students who do not want to be included in the annual EMU Student Directory should either complete a directory exclusion card or request directory exclusion through the touch tone registration system (734.487.3309) by Sept. 15. Cards can be picked up from University Publications, Campus Life, Office of Records and Registration, Academic Advising Center, Office of Admissions or a residence hall information desk. They must be turned in by September 15 to Public Information, 18 Welch Hall. Requesting directory exclusion will remove your name, address and phone number from the current and subsequent telephone directories.

5. **The right to file a complaint with the U.S. Department of Education concerning alleged failures by EMU to comply with the requirements of FERPA.**

The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Ave. SW
Washington, D.C. 20202-4605

**Applicable Laws for Americans with Disabilities**
1973 Vocational Rehabilitation Act, Section 504

Colleges and universities nationwide have been protecting the rights of students with disabilities since the 1973 Vocational Rehabilitation Act, specifically Section 504, which states:

No otherwise qualified handicapped individual in the United States shall, solely by reason of handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.

Americans with Disabilities Act (ADA)

Unlike Section 504 of the Rehabilitation Act, the ADA applies to employers, public services, public accommodations, communication providers and transportation providers regardless of whether they receive or benefit from federal funding.

The ADA defines a person with a disability to mean a person who: (1) has a physical or mental impairment that substantially limits one or more major life activities; (2) has a record of such an impairment; or (3) is regarded as having such an impairment.

The ADA provides coverage in five different areas:

- Employment
- Public services/transportation
- Public accommodations/transportation
- Telecommunications
- Miscellaneous

Residence Hall Eligibility Policy

Policy Statement

All first year unmarried students shall be required to live in University residence halls, contingent on space availability. Sophomore students may be required to live on campus as well, space permitting. Exceptions may be granted to students who are:

- a. commuting from the permanent home of their parents/guardian;
- b. 21 years of age or older; or
- c. veterans who have served on active duty.

All students living in University residence halls assume responsibility for their own hours.

University Practice

Occupancy in a University residence hall is restricted to currently enrolled students at Eastern Michigan University. Occupants other than currently enrolled Eastern students are allowed on an exception basis. However, priority will be maintained for current Eastern students. Each resident is required to make application and sign a contract for the appropriate term. As such, the resident agrees to make the designated prepayment and agrees to the payment of fees as established for the term(s) of occupancy according to the current payment schedule. Additionally, the residents are responsible for compliance with all terms and conditions set forth in the contract and the Residence Hall Handbook.
Responsibility for Implementation

Housing management staff is responsible for implementing this policy and for granting waivers in a fair and consistent manner within policy guidelines.

Scope of Policy Coverage

This policy shall apply to first year and sophomore students.

EMU Policy on Sexual Harassment

The University's Mission Statement and accompanying Institutional Values and Guiding Principles reflect our collective commitment to providing an environment that positively affects the lives of all individuals who are part of the EMU community. The University's Sexual Harassment Policy affirms our shared values and responsibility to respect all individuals, and prohibits any member of the University community from engaging in sexual harassment activities that demean or diminish an individual in any way. Such activity is prohibited by law and by this policy. The rights and responsibilities inherent in this policy apply to all employees, students, guests and outside contractors. One of the strengths of Eastern Michigan University is that we value and respect human dignity and the rights of all people. Each of us shares the responsibility for ensuring that sexual harassment will not be tolerated and that we strictly adhere to the tenets of this policy. Copies of the policy and procedures are posted on the web sites of the Office of Diversity and Affirmative Action, the Office of Judicial Services, Human Resources and the Office of the Assistant Vice President for Academic Affairs.

Policy on Sexual Harassment

It is the policy of Eastern Michigan University to provide an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by state and federal statues.

Prohibited Acts

No member of the University community shall engage in sexual harassment. Persons who engage in sexual harassment are subject to disciplinary action, up to and including dismissal for employees and/or suspension or dismissal for students. Sexual harassment is defined as unwelcome advances, requests for sexual favors or other behavior of a sexual nature when:

- Submission to such conduct is made explicitly or implicitly a term or condition of an individual's employment or status in a course, program or activity.
- Submission to, or rejection of, such conduct is used as a basis for a decision affecting an individual's employment or participation in a course, program or activity.
- Such conduct has the purpose or effect of unreasonably interfering with an individual's work or performance in a course, program or activity, or of creating an intimidating, hostile or offensive environment in which one engages in employment, a course, a program or an activity.

Confidentiality
To the extent permitted by law, the confidentiality of each party involved in a sexual harassment investigation, complaint or charge will be observed, provided it does not interfere with the University's ability to investigate the allegations or take corrective action.

Examples of Sexual Harassment

- Physical assault
- Threats or insinuations which cause the victim to believe that sexual submission or rejection will affect his/her reputation, education, employment, advancement, or any conditions which concern the victim's standing at the University.
- Direct propositions of a sexual nature
- Subtle pressure for sexual activity, an element of which may be conduct such as unwelcome sexual leering
- Conduct (not legitimately related to the subject matter of the work, course, program, or activity in which one is involved) intending to or having the effect of discomforting and/or humiliating a reasonable person at whom the conduct is directed. This may include, but is not limited to, comments of a sexual nature or sexually explicit statements, questions, jokes or anecdotes, and unnecessary touching, patting, hugging or brushing against a person's body. Depending upon the circumstances, any of the above types of conduct may be sexual harassment and subject to disciplinary action, even if that conduct only occurs once.

Consensual Sexual Relationships:

Professor and student:

The ideal professor demonstrates respect for students as individuals and serves as students' mentor, intellectual guide and model of honest academic conduct. The professor acts to ensure academic evaluations of students that reflect each student's true merit. He or she respects the confidential nature of the relationship between professor and student and avoids all forms of exploitation, harassment and discriminatory treatment of students.

Sexual relations (which includes contact of a sexual nature) or requests for sexual relations between students and faculty members with whom they also have a current instructional or evaluative relationship are fraught with the potential for exploitation and must be avoided, and are prohibited. The respect and trust accorded a professor by a student, as well as the power exercised by the professor in an instructional or evaluative role, make voluntary consent by the student suspect. In their relationships with students, members of the faculty are expected to be aware of their professional responsibilities and to avoid apparent or actual conflict of interest, favoritism or bias.

Seeking Assistance for Filing a Complaint

Students, faculty and staff who believe they are the victims of sexual harassment may seek information and assistance from the Office of Student Judicial Services (204 King Hall), Jennifer Schraze, director, 734.487.2157, or the Diversity and Affirmative Action Office (11 Welch Hall), 734.487.1166. If the student, faculty member or staff member wishes to file a complaint, she/he may take the following action(s):

- If the alleged harasser is a staff or faculty member, the affected individual(s) may contact the Diversity and Affirmative Action Office (11 Welch Hall).
- If the alleged harasser is a student, the affected individual(s) may contact the Office of Student Judicial Services (204 King Hall).

Note: EMU has the obligation to investigate all complaints of sexual harassment.

Seeking Assistance Outside of the University
Persons who believe they are the victims of sexual harassment may also seek assistance from: the Equal Employment Opportunity Commission, or the Michigan Department of Civil Rights.

Awareness

Members of the University community are responsible for knowing and understanding the University's policy prohibiting sexual harassment. Students who do not understand the policy should contact the Office of Student Judicial Services at 487.2157. Faculty and staff who do not understand the policy should contact their department head or director. Department heads or directors who need assistance in understanding, interpreting or applying the policy should contact the Diversity and Affirmative Action Office at 487.1166. Persons who make false allegations subject themselves to the possibility of disciplinary action.

If You Are Accused of Sexual Harassment

You will have an opportunity to hear and respond to the charges brought against you. All situations are treated as confidential matters to the extent permitted by law. Judgments are not made nor action taken until the investigation is complete. Employees represented by collective bargaining agents may enlist assistance from their union as necessary.

Grade Grievance Procedure for the EMU Community

Timeline for Steps in the Grade Grievance Procedure

(This timeline is derived from appropriate sections in the Grade Grievance Procedure. The page number from which it is taken is underlined in parentheses following each item.)

Step I
• The student must contact the instructor within ten (10) working days after the start of the following semester: i.e., the semester following the one in which the disputed grade was given.

Step II
• A written grievance must be filed within twenty (20) working days after the start of the next semester following the one in which the disputed grade was given.
• Within ten (10) working days after receipt of the written grievance, the department head must schedule a hearing before the Department/College Grievance Committee.
• The Committee hearing shall be open unless the student or instructor requests a closed hearing. This request should be conveyed in writing to the department head prior to the hearing. . . . (After the hearing) The committee will meet in executive session and will present its findings, in writing, to the department head within ten (10) working days.
• The department head will forward the committee's written decision to the student and the instructor within five (5) working days of this committee's decision/recommendation.

Step III
• Either the instructor or the student grievant may submit a written appeal of the prior decision at Step II by the Department/College Grade Grievance Committee within ten (10) working days of written receipt of that decision, if at least one of three conditions is met:
  1. The Office of the Provost determines that there is evidence that established procedures for Step II were violated; or
  2. There was at least one dissenting vote at the Step II level; or
  3. New evidence or new witnesses not previously considered or heard at Step II become available.
• Within twenty (20) working days of the receipt of the appeal, the University Grade Grievance Committee shall issue a written Step III decision to both the instructor and the student.
A. Introduction

The Grade Grievance Procedure provides each student with the opportunity to appeal formally a final grade in a course because he or she believes that the grade has been awarded capriciously or unfairly. Capricious or unfair grading may include but is not limited to the assignment of a course grade to a student: (1) on some basis other than relevant performance in the course; (2) by resorting to standards different from those which were applied to other students in that course; or (3) by an unreasonable and/or unannounced substantial departure from the instructor's previously articulated standards.

This procedure is not intended to handle disputes that may arise about the grading of individual exams or assignments during the semester. When such disputes arise, the student should contact the instructor immediately, rather than waiting until the end of the semester. Class action grievances by one student on behalf of several students or an entire class are not permitted.

B. Step I

If a student wishes to appeal a final grade, the student must contact the instructor within ten (10) working days after the start of the following semester; i.e., the semester following the one in which the disputed grade was given (see General Notes #3, p. 9, for the spring-summer policy). If the instructor is teaching on campus the next semester, but is temporally unavailable or simply cannot be reached during this ten-day period, then the student should deliver a written request for an appointment with him/her, stating the reason, to the department head no later than the ten (10) day period. With the aid of the department head in scheduling an appointment, the instructor and the student must then meet as soon as possible and discuss the disputed grade privately. In the event that the department head has difficulty in assisting the student in scheduling the appointment, a detailed written record of communication or attempts to communicate between the department head and the instructor will be maintained by the department head. Whenever possible, conflicts over grades should be resolved informally between the instructor and the student as a result of this Step I discussion.

If the instructor has left the University permanently, or is not available for a period of sixty (60) days or more (e.g., if the instructor is away on a sabbatical leave, medical leave; or in his/her “off semester” on a Plan C appointment), then the department head shall act on his/her behalf and make a decision either in support of or against the grievance. In making this decision, the department head shall review all available grade records, discuss the matter with the student, and with written consent of the student, request and evaluate within ten (10) working days a written statement by the instructor concerning the disputed grade, when possible. The department head cannot act in this manner on behalf of the instructor during the spring-summer period because the instructor is not teaching during either the spring or summer session, unless the disputed grade affects the student's plans to graduate that year.

C. Step II

If the grade dispute is not resolved in Step I to the student's satisfaction and he or she still believes that the grievance has merit based on the facts of the case, the student has the right to file a formal written grievance with the department head. In the written grievance, the student must indicate whether he/she requests that the case be heard by a Departmental or College Grade Grievance Committee. The department head will forward the written grievance immediately to the chairperson of the appropriate (Department or College) Grade Grievance Committee.

Guidelines for filing a formal grievance are as follows:

1. A grievance must be based on evidence that the instructor has been capricious and/or unfair in awarding a grade. The written grievance must describe specifically the perceived capricious or unfair action of the instructor. The student also should present all other evidence or documentation in support of his or her allegations. Disagreement with an instructor's judgment in and of itself is not a basis for a grievance, nor is disagreement with an instructor's grading standards, if such standards have been described in advance for the class, and have been applied fairly to all students in the class.
2. A written grievance must be filed within twenty (20) working days after the start of the next semester following the one in which the disputed grade was given.

Within ten (10) working days after receipt of the written grievance, the department head in consultation with the chairperson of the Department/College Grade Grievance Committee will schedule a hearing before the Committee. The department head cannot simply make a personal judgment that the grievance is without merit, and thus refuse to give it to the Department/College Grade Grievance Committee. However, after scheduling the hearing, the department head may request a closed three-person meeting in his/her office with just the instructor and the student, to discuss informally the disputed grade one final time. If either the instructor or the student refuses to attend such a meeting, the department head cannot require his/her attendance, and the grievance is then held as previously scheduled. If a closed meeting is held, the department head shall act only as a facilitator or a mediator. His/her role is restricted solely to promoting further discussion, not to imposing his/her judgment and/or making a decision in the case. If the dispute is resolved in this meeting, the written grievance shall be withdrawn and the scheduled hearing canceled. The student will provide written verification of withdrawal of the grievance to the instructor and department head at the conclusion of the meeting. If the dispute is not resolved, the grievance is then held as previously scheduled. In such cases, the department head shall not communicate his/her opinions/judgments regarding the grievance and/or the discussion at the closed meeting to the members of the Department/College Grade Grievance Committee.

The Department Grade Grievance Committee shall be composed of three (3) faculty members and two (2) students. The faculty members shall be selected by appropriate department procedures. In undergraduate student grievances, the student representatives shall be selected from the list of representatives designated annually (no later than October 15 each year) by Student Government for each department in that particular college. In graduate student grievances, the student committee members must be graduate students. The graduate student representatives will be selected from the list of representatives designated annually (no later than October 15) by the Graduate School for each department in that particular college.

The College Grade Grievance Committee shall be composed of three (3) faculty members and two (2) students. One faculty person and one student must be from the department from which the grievance originated. The other faculty and student representatives must be from different departments within the college. The dean of the college in which the grievance originates will select the appropriate faculty and student representatives to serve on a particular grievance committee from the approved designated lists. The faculty approved to serve on the committee shall be designated by the College Council from a list of faculty submitted by each department by October 15 each year. In undergraduate student grievances, the student representatives shall be selected from the list of representatives designated annually (no later than October 15 each year) by Student Government for each department in that particular college. In graduate student grievances, the student committee members must be graduate students. The graduate student representatives will be selected from the list of representatives designated annually (no later than October 15) by the Graduate School for each department in that particular college.

The student grievant may, however, request in advance of the hearing in writing that the two (2) students be excused and that his or her grievance be heard only by three (3) faculty members.

This option applies regardless of whether the grievance is being heard by the Department or College Grade Grievance Committee. The committee shall conduct a hearing according to the following guidelines:

1. Prior to the hearing, any written information in support of either the student or the instructor shall be distributed to committee members by the department head. In addition, both the student grievant and the instructor shall be provided with copies of these same written materials. All available written information shall be presented at this time.

2. A detailed record shall be kept of the hearing, preferably a taped sound recording. If a written record is kept, that record shall be signed by the Grievance Committee asserting that the written record is a true record of the hearing proceedings.

Written or recorded records of any Step II grievance shall be kept on file in the college dean's office and copies shall be provided, upon request, to the student who has filed the grade grievance or the faculty member against whom the grievance was filed. Costs associated with duplicating grade grievance records shall be borne by the individual(s) requesting copies.
3. The hearing shall be open unless the student or instructor requests a closed hearing. This request should be conveyed in writing to the department head prior to the hearing.

4. Both the student and instructor shall be permitted an adviser at the hearing. Advisers must be members of the University community, i.e., students in good standing or full-time faculty or staff members.

5. The Department/College Grade Grievance chair shall begin the hearing by beginning the tape recorder (or announcing the name of the person who will be taking minutes) and reviewing the guidelines and procedures under which the hearing shall be conducted.

The committee chair will then announce, "This Step Level II Grade Grievance Hearing is being held on (date). (Name of student) is grieving the grade of (grade) received during the (semester) in (class prefix, number, and section identification number) taught by (instructor). The following committee members are in attendance today: (members give their names)."

6. In order, the student and the instructor will present their cases. Both the student and the instructor may call witnesses, and the student, instructor, adviser(s), and committee members all have the right to question any witnesses that are called. The student and the instructor should be asked for brief closing statements.

7. The chair will then close the hearing with, "This Step Level II Grade Grievance Hearing is now concluded." The committee will meet in executive session and will present its findings, in writing, to the department head within ten (10) working days. The written decision/recommendations will be signed by the members of the committee. The department head will forward the committee's written decision to the student and the instructor within five (5) working days of this committee's decision/recommendation.

8. If determined through the grievance process that a student's grade is to be changed, the following process will be used:

   a. The Chair of the grade grievance committee will forward the committee's recommendation for the change of grade to the faculty member, Department Head and the student (grievant).

   b. The faculty member shall have ten (10) working days from the issuance of the committee's recommendation to file a grade change or respond otherwise to the committee.

   c. If the faculty member fails to change the grade or appeal the decision within the allotted time or notifies the committee of his/her intent not to comply with the recommendation to do so, the department head will file the grade change form in accordance with the committee's recommendation.

   d. The student, faculty member, Department Head, and Grievance Committee Chairperson will receive copies of the completed grade change form.

9. Either the student or the instructor may appeal the decision/recommendations of the Department/College Grade Grievance Committee to the University Grade Grievance Committee under the conditions listed below. This appeal must be filed within ten (10) working days of receipt of the decision.

D. Step III

Either the instructor or the student grievant may submit a written appeal of the decision at Step II by the Department/College Grade Grievance Committee within ten (10) working days of written receipt of that decision, if one of the following conditions is met:

1. The Office of the Provost determines that there is evidence that established procedures for Step II were violated; or

2. There was at least one dissenting vote at the Step II level; or

3. New evidence or new witnesses not previously considered or heard at Step II become available.

In the absence of 1, 2, or 3 above, simple disagreement with the decision rendered at Step II is not sufficient basis for an appeal. In other words, there is no automatic right of appeal in every case requiring that the University Grade Grievance Committee reconsider the entire grievance case. If the appeal is based on new evidence or new witnesses, the written appeal statement must explain precisely how this evidence or testimony relates directly to the alleged unfair or capricious awarding of the disputed grade. If said evidence or witnesses had been available prior to the Step II hearing, the hearing shall be remanded back to the Step II departmental committee. Only newly discovered evidence
and/or witnesses may be introduced at the Step-III hearing level (it shall be the responsibility of the petitioner to demonstrate that the evidence and/or witnesses were not available at Step II).

The appeal shall be submitted to the provost or his/her designee with a copy to the dean of the appropriate college. The University Grade Grievance Committee shall be chaired by the provost or his/her designee and shall have the following additional members: the dean of the involved college or his/her designee; two (2) faculty members, one of whom is from the involved college, but not from the department in which the grievance originated; and one (1) student appointed by Student Government (in the case of undergraduate grievance) or by the Graduate School (in the case of graduate grievances). The two faculty members shall be selected by the provost or his/her designee from an available pool of nominees representing all colleges.

The University Grade Grievance Committee shall review all written documents that were available to the Department/College Grade Grievance Committee, the written or taped recording of the Step II hearing, and the final report and decision of the Step II Committee. The University Grade Grievance Committee may reconvene the participants in the Step II hearing to answer questions, if desired.

Within twenty (20) working days of the receipt of the appeal, the University Grade Grievance Committee shall issue a written Step III decision to both the instructor and the student. This decision shall be final; no further appeal is possible.

E. Records

When the Grade Grievance Procedure results in an instructor's grade being changed without his or her agreement, then all University records containing that grade in which the name of the instructor appears shall be identified by an asterisk (*). On these records, the asterisk will be footnoted with the following statement: "This grade is a result of an appeal procedure." On those records in which the instructor's name does not appear, the grade will not be asterisked, nor will there be any other indication that the original grade was changed.

F. General Notes

1. The time limits/deadlines for submitting grievances/appeals, holding meetings, making decisions are to be followed by all parties. However, extensions of the limits may be requested in writing by any of the involved parties. Such requests must originate prior to the expiration of the stated time limit. The dean of the involved college will make the decision to approve or to deny each request for a time limit extension at Step I or Step II. Decisions regarding Step III time limit extensions will be made by the Office of the Provost.

2. For Department Grade Grievance Committees, each academic department shall select the faculty members for the Department Grade Grievance Committee annually by October 15. The committee will hear all Step II grade grievances during the next twelve months in cases where the student requests the hearing at the departmental level. Substitute members shall be selected to replace any committee member who is personally involved in a grade grievance. Also, substitute members shall be selected to replace any faculty member who is unavailable for an extended period of time (e.g., spring and/or summer). For College Grade Grievance Committees, annually by October 15, each academic department shall select faculty members to serve on the College Grade Grievance Committee (at least one person to serve as a regular member of the Committee and one as an alternate). The Committee will hear all Step II grade grievances during the next twelve months in cases where the student requests the hearing at the college level. Substitute members shall be selected to replace any committee member who is personally involved or has a conflict of interest in a grade grievance. Also, substitute members shall be selected to replace any faculty committee member who is unavailable for an extended period of time (e.g., spring and/or summer, sabbatical, etc.).

3. Each college shall select two (2) faculty members plus one (1) alternate who are available during a twelve-month period for assignment to the Step III University Grade Grievance Committee. These selections shall be made by the appropriate college-level faculty advisory council/committee at the beginning of the academic year (by October 15). Unlike the Department/College Grade Grievance Committee, this Step III University Grade Grievance Committee may, of necessity, have a different membership for each grievance.
Grievances relating to grades awarded for the winter semester ending in April or for the Spring term ending in June shall normally be pursued the next fall, measuring all stated deadlines with respect to the start of the fall semester in September. However, if the instructor is teaching on campus during the spring or summer session and the student is enrolled on campus during the same session, then with their mutual agreement, the grievance can be pursued during the spring or summer. However, should either the instructor or the student prefer to wait, then action of the grievance will be postponed until the fall semester. The only exception in which the grievance shall be pursued during the spring or summer session without the consent of the instructor who is teaching on campus is for any case in which the disputed grade affects the student's plans to graduate that year. In such cases, if the instructor is unwilling to participate, the department head may act on his/her behalf.

4. Throughout this procedure, the title "department head" shall be interpreted to include program directors or program coordinators for appropriate academic units in which there is no administrator with the title of "department head."

Class Attendance Policy Works for You

Students

Regular class attendance and active participation in classes are important elements in the learning process. Students are at the University primarily for the sake of their intellectual growth and development. Attendance and participation provide appropriate opportunities for the evaluation of the student's progress.

Each student is personally responsible for the satisfactory completion of the course work prescribed by his/her instructors. This means specifically that he/she is expected to attend classes regularly, and that he/she is responsible for the work assigned in class, the material covered in class and for participation in class activities (including discussion and listening) designed by the instructor as part of the learning experience. However, physical attendance shall not be the sole criterion for determining the student's course grade.

Faculty

Faculty members should notify their department heads when they are going to be absent from regularly scheduled classes. Written notification of circumstances causing prolonged absences should be sent to the dean of the college. Faculty members are expected to arrange, through their department head, for a qualified substitute when they are absent from class.

Cancellation

Classes may be cancelled by the Office of the President through the Office of the Vice President for Academic Affairs. Off-campus classes are cancelled only by the dean of continuing education.

Changes

Faculty may not change the time or room of a class printed in the University class schedule unless the change is approved by the department head and the dean of the college.

At the End of the Semester

Classes are taught through the last teaching day of the semester as indicated in the University calendar.
Near Holidays

Students are expected to attend all classes, and faculty members are not permitted to cancel classes or excuse students prior to any holiday.

Student Involuntary Administrative Withdrawal

It is the policy of Eastern Michigan University to establish a Student Involuntary Administrative Withdrawal Policy for the purpose of maintaining a campus environment that is conducive to learning, protects the university’s educational purposes, maintains reasonable order on campus, and protects the rights and safety of all members of the university community. The University may order the involuntary withdrawal of a student from the University or from University Housing in accordance with University policy, as described in the full text of this policy.

Standards for Withdrawal

In accordance with university policy, and applicable federal and state laws prohibiting discrimination based on disability, a student may be involuntarily withdrawn from the University and/or University Housing, either temporarily or permanently, if it is determined that a student suffers from a mental disorder as defined by the current American Psychiatric Association Diagnostic and Statistical Manual, and as a result of the disorder:

- Engages, or threatens to engage, in behavior which poses a danger of causing physical harm to self or others, and/or
- Engages, or threatens to engage, in behavior which would cause significant property damage, which directly and substantially impedes the lawful activities of other members of the University, and/or
- Demonstrates an inability to satisfy personal needs (e.g., nourishment, shelter) such that there is a reasonable possibility that serious physical harm or death might occur within a short period of time, and/or
- Commits a violation of the University’s Student Conduct Code and lacks the capacity to comprehend and participate in the University’s disciplinary process, and/or
- Commits a violation of the University’s Student Conduct Code and did not understand the nature or wrongfulness of the conduct at the time of the offense.

The full Student Involuntary Administrative Withdrawal Policy, including procedures, is available at the Student Judicial Services website (www.emich.edu/sjs/). For more information, visit Student Judicial Services in 250 Student Center, or by phone at 734.487.2157.

Student Conduct Code and University Disciplinary Process

It is the policy of Eastern Michigan University to establish a student conduct code, to be administered by the Office of Student Judicial Services, for the purpose of maintaining a campus environment that is conducive to learning, protects the university’s educational purposes, maintains reasonable order on campus, and protects the rights of all members of the University community. The Eastern Michigan University Student Conduct Code and the accompanying student disciplinary processes are intended to foster ethical development, personal accountability and civility toward others.

UNIVERSITY PRACTICE

The Student Conduct Code, below, outlines the practices to be utilized in administering the student disciplinary system at Eastern Michigan University.

Section 1: Purpose
In support of the overall goals of Eastern Michigan University, the purpose of the Student Conduct Code, administered by the Office of Student Judicial Services, is to maintain a campus environment that is conducive to learning, protects the university’s educational purposes, maintains reasonable order on campus, and protects the rights of all members of the University community. The Student Conduct Code and the accompanying student disciplinary processes are intended to foster ethical development, personal accountability and civility toward others.

The Code embraces several core philosophies: preservation of the rights of free speech and peaceable assembly: respect for freedom of inquiry and constructive criticism; a conviction that honesty and integrity are key values to the University community; and the belief that all members of the University should be part of a campus environment that respects differences of culture, gender, religion, race, age, lifestyle, or ability.

Section II: Responsibility for Implementation

The President, as Chief Executive Officer of the University, has overall responsibility for implementation of the Student Conduct Code and the student disciplinary process and has delegated its overall management to the Vice President for Student Affairs and the Director of Student Judicial Services. The Student Judicial Services office is directly responsible for the daily administration of the University’s student judicial system.

Section III: Jurisdiction

The University will have jurisdiction over misconduct that occurs on University premises and/or at University-sponsored activities but may also address off-campus behavior if the University determines that the behavior, or the continued presence of the student, impairs, obstructs, interferes with or adversely affects the mission, processes or functions of the University.

A student committing a criminal offense off-campus that is also a violation of the Student Conduct Code may be subject to University discipline.

The University may pursue disciplinary action against a student at the same time the student is facing criminal charges for the same offense, even if the criminal prosecution is pending, has been dismissed or the charges have been reduced.

Section IV: Definitions

A. For purposes of the Student Conduct Code only, the following definitions apply:

1. FACULTY MEMBER means any person hired by the University to conduct classes.
2. INSTITUTION or UNIVERSITY means Eastern Michigan University.
3. MEMBER OF THE UNIVERSITY COMMUNITY includes any person who is a student, faculty member, University official or any other person employed by the University.
4. STUDENT includes all persons enrolled for courses through or at EMU, both full-time and part-time, and those who attend educational institutions other than EMU but who reside in EMU residence halls. Persons who are not officially enrolled for a particular term but whose EMU record indicates a continuing relationship with the University are considered “students.” Persons who have been accepted into EMU but have not yet enrolled for courses are considered “students.”
5. STUDENT GROUP means a number of students who are associated with each other and have not complied with University requirements for registration as an organization.
6. STUDENT IN GOOD STANDING means a student who is in good academic standing AND who is not presently under any University disciplinary sanctions.
7. STUDENT ORGANIZATION means a number of students who have complied with University requirements for registration and/or recognition.
8. UNIVERSITY PREMISES includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the University.
9. UNIVERSITY SPONSORED ACTIVITY means any activity on or off campus, which is initiated, aided, authorized or supervised by the University.

Section V: Violations

The following behavior is subject to disciplinary action under this Code. An individual, a group of individuals or a student organization may be charged with any of the violations. In cases where a violation is committed by an individual member of a student organization, the entire organization may be held responsible, in addition to the individual member, when those members not directly involved participate in the activity by encouraging, witnessing or condoning the act in any manner.

A. Academic Dishonesty

Engaging in academic dishonesty in any form with respect to examinations, course assignments, research projects, grades, and/or academic records, including, but not limited to the following:

1. **Cheating** - using or attempting to use unauthorized materials, information or study aids in any academic assignment. Examples of cheating are: looking on someone else’s paper; using any kind of “cheat” sheet or other enhancement during a test; allowing someone else to take an exam in your place; submitting the same work more than once for credit; using someone else’s homework or lab assignments; collaborating with another student on any assignment or take-home test if told that collaboration was not allowed; assisting another student in committing an act of academic dishonesty by allowing another student to copy homework or an exam; taking an exam for someone else; or giving test information to students in other sections of the same class.

2. **Falsification** - intentional and unauthorized falsification or invention of any information or citation in an academic assignment. Examples of falsification are: making up data on an assignment; making up a source to cite in a paper; altering then resubmitting returned academic work; giving false information to a faculty or staff member to increase one’s grade; or attempting to change, actually changing, altering grades or any other unauthorized tampering with grades.

3. **Plagiarism** - deliberate and knowing use of someone else’s work or ideas as one’s own. Examples of plagiarism are: quoting a source verbatim, or paraphrasing text from a given source, without properly citing the source; turning in a research paper that was written by someone else; or in any other way passing off someone else’s work as one’s own; or failing to give credit for ideas or materials taken from someone else.

B. Alcohol Violations

1. Possession or consumption of alcoholic beverages by persons under the legal drinking age as defined by Michigan law.

2. Dispensing, selling or supplying alcoholic beverages to a person under the legal drinking age as defined by Michigan law.

3. Possession or consumption of alcoholic beverages in violation of federal, state and local laws.

NOTES:
1. Transportation in sealed containers to and from an authorized area or place is permissible if the person in possession is of legal age to possess alcoholic beverages as allowed by Michigan law.

2. Use of alcohol and controlled substances by Greek Organizations is covered under Student Conduct Code Section XI: Special Provisions Governing the University Recognition and Conduct of Greek Letter Social Organizations.” Those provisions should be used to address alcohol violations committed by a Greek organization.

C. Computer Misuse

1. Unauthorized access, entry or use of a computer, computer system, network, software, password, account or data.

2. Unauthorized alteration or tampering with computer equipment, software, network, or data.
3. Unauthorized copying or distribution of computer software or data.
4. Use of computing facilities or equipment to send obscene, harassing or abusive messages.
5. Use of computers to falsify records, tamper with records or commit any act of academic dishonesty.
6. Any other act in violation of law and/or University policies and guidelines regulating computer-related use.

D. Discrimination by Student Organizations

Selecting its membership upon the basis of restrictive clauses involving race, religion, color, national origin, gender, age, sexual orientation or disability unless any given student organization’s membership restriction is shown to be specifically allowed by law.

E. Disruptive Conduct

1. Actions that impair, interfere with, or obstruct the normal operations of the University and/or interfere with the rights of other members of the University community or visitors. This includes intentional occupation of or blocking the entry or exit of University facilities, including but not limited to buildings, classrooms, offices, hallways, entryways, conference rooms and campus grounds.
2. Actions that impair, interfere with, or obstruct the orderly conduct, processes and functions within any classroom or other instructional setting. This includes interfering with a faculty member’s or instructor’s role to carry out the normal academic or educational functions of his/her class.
3. Participating in, leading or inciting others to disrupt scheduled and/or normal campus activities, events and programs.
4. Intentional obstruction of the free flow of pedestrian or vehicular traffic on University premises or at University sponsored or supervised functions.
5. Disturbance of any member of the University community or visitor.
6. Solicitation on campus without prior approval from appropriate University officials. This includes, but is not limited to, the disbursement of any forms of promotional/informational material on University property or on items (e.g. motor vehicles) on University property, requests for donations, or the selling or vending of any merchandise or services.

F. Drugs

1. Possession or use of narcotics, prescription drugs or other controlled substances in violation of local, state or federal drug or narcotic laws.
2. Distribution, delivery or sale of narcotics, prescription drugs or other controlled substances in violation of local, state or federal drug or narcotic laws.
3. Possession or use of drug paraphernalia.

G. Failure to Comply

1. Failure to comply with a lawful order of a University official, including a campus police officer, in the performance of his/her duty.
2. Failure to comply with the sanctions rendered during the student judicial process.
3. Failure to comply with a request to be interviewed by a University judicial officer during the investigation of a conduct code violation. (Students may choose not to appear and present testimony at a student judicial proceeding after meeting with the judicial officer.)

H. Falsification/Fraud/False Testimony

1. Furnishing false information to the University, including false reporting of emergencies, knowingly making false accusations or giving false testimony during the disciplinary process.
2. Misuse, reproduction, alteration or forgery of any University related documents, records, identification, keys, access codes or property.
3. Providing a worthless check or money order in payment to the University or to a member of the University community.

I. Fire and Safety

1. Damage to, removal of or tampering with any fire safety systems, firefighting equipment or other emergency warning equipment.
2. Intentional or reckless burning or setting fire to any building or piece of property owned or controlled by the University.

J. Gambling

Gambling or participation in games of chance on campus for money or other things of value except as provided by law.

K. Guests

Students are responsible for informing their guests about campus regulations and may be held accountable for the behavior of their guests.

L. Harassment/Stalking

1. Conduct (not of a sexual nature) that creates an intimidating, hostile, or offensive campus, educational or work environment for another person or group.
2. Conduct (not of a sexual nature) that threatens, intimidates, humiliates, or otherwise harms another person or group.
3. Stalking, defined as following or otherwise contacting, via any means, another person repeatedly for no legitimate purpose, so as to put that person in fear for his/her life or personal safety, or to cause that person substantial emotional distress. Stalking includes:
   a. Repeatedly following or harassing another person.
   b. Contacting a person after being asked or ordered not to contact the person.
   c. Violating any provision of the Michigan Stalking Law.

M. Hazing

1. Any action or activity, committed by either active members, associate members or pledges of an organization, which inflicts or intends to cause physical or mental harm or anxieties, or which may demean, degrade, or disgrace any person, regardless of location, intent or consent of participants. Hazing includes, but is not limited to:
   a. Interference with a student’s academic or work performance.
   b. Forced consumption of any food, alcohol, other drugs, or any other substance.
   c. Forced physical activity.
   d. Deprivation of food or sleep.
   e. Physical acts such as branding and paddling.
   f. Requiring participation in any activity that violates University policies or any local, state or federal law.
   g. Other violations as outlined in the Interfraternity Council, Panhellenic Council or National Pan-Hellenic Council Constitutions.
2. Any action or situation which intentionally or unintentionally endangers a student who is attempting admission into or affiliation with any student organization.

NOTES:
1. In cases where the activity is performed by an individual member of a student organization, the total organization may be held responsible, when those members not directly involved participate in said activity by encouraging, witnessing, or condoning the act in any manner.
2. Any individual and/or organization found guilty of hazing will be subject to a minimum penalty of suspension.

N. Physical Abuse and Endangerment

1. Physical violence or attempted physical violence toward another person or group.
2. Threat of physical violence against another person or group.
3. Any action that endangers the health, safety or welfare of a person or group.
4. Attempt to harm, or actual harm to, oneself.

O. Property/Facilities/Services

1. Theft of University property or property of a member of the University or visitor.
2. Damage, destruction, or defacement of University property or property of a member of the University or visitor, including littering.
3. Wrongful appropriation of University property or property of a member of the University or visitor.
4. Public posting, selling of, or in any other way, distribution of notes of class lectures, course handouts and outlines, and/or any other University-supplied materials without the express written permission of the instructor.
5. Unauthorized possession and/or use of University property or property of a member of the University or visitor, including knowingly being in possession of stolen goods. This includes unauthorized use of vehicles, equipment, services, the University name and logo.
6. Unauthorized entry into University facilities, including but not limited to buildings, classrooms, hallways, entryways, conference rooms, and campus grounds.
7. Bringing animals and/or pets into University buildings, except where properly authorized. Use or operation of rollerblades, skates, skateboards, bicycles, and similar items inside University facilities, unless expressly permitted.
8. Violation of any policy or guidelines pertaining to specific usage of a University facility.

P. Sexual Misconduct/Sexual Harassment

1. Any sexual act that occurs without the consent of the other person or occurs when the other person is unable to give consent.
2. Conduct of a sexual nature that creates an intimidating, hostile or offensive campus, or educational or working environment, for another person. This includes unwelcome sexual advances or requests for sexual favors, inappropriate sexual or gender-based activities, comments or gestures, or other forms of verbal or physical conduct or communications constituting sexual harassment.
3. Obscene or indecent behavior, which includes, but is not limited to, indecent exposure or the display of sexual behavior that would reasonably be offensive to others.

Q. Weapons/Firearms/Explosives

1. Possession, storage or use of firearms and other weapons, including non-lethal weapons such as pellet guns and paintball guns.
2. Possession, storage or use of firecrackers, gunpowder, ammunition, explosives or incendiary devices, or other articles or substances which could endanger health or safety.

R. Other Violations
1. Violation of any other published or posted University regulations not specifically mentioned in this Section, including, but not limited to, the EMU Policy Manual(s); EMU’S Alcohol and Other Drug Policy; Residence Hall Contract and the Guide to Campus Living; Campus Life Council regulations and guidelines for organizations; Student Government monetary allocation guidelines; EMU published undergraduate and graduate catalogs; EMU’S Athletics Alcohol and Other Drug Education and Testing Policy; and ORD Research Guidelines.

2. Aiding and abetting another in any violation of laws and/or University policies.

3. Attempt or intent to commit any violation outlined in the Student Conduct Code.

4. Off-Campus Conduct as described in the Student Conduct Code, Section III: Jurisdiction.

Section VI: Sanctions for Misconduct

The purpose of University discipline is to be corrective and educational as well as punitive. The disciplinary experience is intended to make clear to students the limits of acceptable behavior and to give students who violate the rules an opportunity to more fully understand the rules and incorporate the experience into their overall development. Assigned discipline may include a combination of sanctions for a particular incident. The sanctions which may be incurred include, but are not limited to, the following:

A. Sanctions for Students and/or Student Groups

1. Verbal Warning: notice that continuation or repetition of prohibited conduct may be cause for additional disciplinary action.

2. Formal Reprimand: an official written statement of the University's disapproval of a student's actions and a warning that any future violation(s) will be dealt with more severely.

3. Disciplinary Probation: an official notice that the student's conduct is in violation of the Student Conduct Code but does not warrant suspension or permanent dismissal. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student commits another conduct code violation during the probationary period. During the Probation period, a student will be considered "not in good standing" and may be excluded from some programs and curricular or extracurricular activities, including running for and/or holding office in any student organization.

4. Suspension: an involuntary separation of the student from the University for a definite period of time and/or until certain conditions for readmission are met. The student is not guaranteed readmission at the end of such period of time, but is guaranteed a review of the case and a decision regarding eligibility for readmission. (Suspension requires administrative review and approval by the President or his/her designee.)

5. Deferred Suspension: the sanction of suspension may be placed in deferred status provided that the student completes other assigned sanctions by the specified deadline dates. Failure to complete all sanctions and provide proof of completion by the deadline date(s) will result in the automatic enactment of the suspension without charges or hearing. If a student is found responsible for another violation of the Student Conduct Code during the period of deferred suspension, the student may be permanently dismissed from the University.

6. Permanent Dismissal: an involuntary permanent separation from the University. (Permanent dismissal requires administrative review and approval by the President or his/her designee.)

7. Delay and/or Denial of Degree Award: during the period disciplinary charges are pending against a student, the University may deny and/or delay issuance of a degree. Further, the University may refuse to issue a degree to a student who is serving a suspension or has been permanently dismissed from the University.

8. Revocation of Degree: an awarded degree may be revoked for violations of the Student Conduct Code, which occur prior to the award of the degree but are discovered after the degree has been awarded, where the violation is sufficient to justify the suspension or permanent dismissal of the student. (Revocation of a degree requires administrative review and approval by the President or his/her designee.)

9. Other secondary sanctions may be imposed instead of or in addition to those specified above. Secondary sanctions include, but are not limited to:
   a. Restitution (compensation for loss, damage or injury)
   b. Fines (for alcohol or drug violations) First Offense = $100; Second Offense = $200; Third Offense = $300
c. Community Service  
d. Educational Activities such as a reflective writing assignment or attendance at an event directly related to the violation committed. (e.g., alcohol/drug workshop, diversity awareness training)  
e. Restrictions (temporary or permanent loss of privileges or the use of a University facility or service)

B. Sanctions for Student Organizations

1. Verbal Warning: notice that continuation or repetition of prohibited conduct may be cause for additional disciplinary action.
2. Formal Reprimand: an official written statement of the University's disapproval of a student organization's actions and a warning that any future violation(s) will be dealt with more severely.
3. Disciplinary Probation: an official notice that the student organization's conduct is in violation of the Student Conduct Code but does not warrant suspension of or permanent termination of the organization's University status. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student organization commits another conduct code violation during the probationary period. During the Probationary period, a student organization may also be excluded from campus activities, forfeit student monetary allocations and lose Campus Life status.
4. Suspension: an involuntary withdrawal of student organization status from the University for a definite period of time and/or until certain conditions for renewal of recognition are met. During this time, the University will not in any way recognize nor support the continued operation of said student organization. The student organization must reapply to the University for renewed recognition following any period of suspension. The suspension shall be reported to said organization's national office, if applicable. (Suspension requires administrative review and approval by the President or his/her official designee.)
5. Deferred Suspension: the sanction of suspension may be placed in deferred status provided that the student organization completes other assigned sanctions by the specified deadline dates. Failure to complete all sanctions and provide proof of completion by the deadline date(s) will result in the automatic enactment of the suspension without charges or hearing. If a student organization is found responsible for another violation of the Student Conduct Code during the period of deferred suspension, the student organization may have its University status permanently terminated.
6. Permanent Termination of University Status: an involuntary permanent withdrawal of student organization status from the University. The University will not in any way recognize nor support the continued operation of said student organization. The permanent termination shall be reported to said organization's national office, if applicable. (Permanent termination requires administrative review and approval by the President or his/her official designee.)
7. Other secondary sanctions may be imposed instead of or in addition to those specified above. Secondary sanctions include, but are not limited to:  
a. Restitution (compensation for loss, damage or injury)  
b. Fines (for alcohol or drug violations) First Offense = $300; Second Offense = $400; Third Offense = $500  
c. Community Service  
d. Educational Activities such as a reflective writing assignment or attendance at an event directly related to the violation committed. (e.g., alcohol/drug workshop, diversity awareness training)  
e. Restrictions (temporary or permanent loss of privileges or the use of a University facility or service)

C. Enhanced Sanctions

Any violation of the Student Conduct Code against any individual, group or student organization which is shown to be motivated by the individual's, group's or student organization's racial identity, religion or religious beliefs, disability, national origin, gender, sexual orientation or other personal characteristic will subject a student/student organization to a more severe sanction than would ordinarily accompany that violation.
D. Counseling Assessments and Counseling

In addition to any sanctions assigned, a student may also be required to undergo a counseling assessment and/or participate in counseling. Issuance of sanctions may be postponed pending the results of the counseling assessment.

Section VII: Organization of the University Judicial System

A. University Judicial Board

1. Composition - The University Judicial Board will consist of five enrolled students and two alternates; two full-time faculty members and one alternate; and two full-time members of the University community and one alternate. A student member must be a student in good standing in order to be selected for and remain on the University Judicial Board.

2. Selection of Board Members - In consultation with the Director of Student Judicial Services, student members will be appointed by the Student Government; faculty members will be selected by Faculty Council; and the full-time members from the University community will be selected by the President or his/her designee.

3. Terms of Office - Board members will be appointed for a two-year term. They may be reappointed by the person or body who appointed them. A Chief Justice will be elected by a majority vote of all of the University Judicial Board members.

4. Removal from Office - A board member may be removed from the board for poor attendance by a simple majority vote of the total University Judicial Board.

5. Jurisdiction - The University Judicial Board will serve as the panel to hear the case of any student(s)/student organization seeking resolution of the case through the formal hearing process.

6. Procedural Considerations
   a. Selection of the University Judicial Board members for any given case depends on the availability of the members at the time scheduled for the hearing.
   b. A quorum for a given hearing will exist with the presence of any five members. During vacation periods or summer session, the University Judicial Board has the authority to convene a disciplinary hearing with only three justices, provided that at least one of those justices is a student.
   c. The Chief Justice will exercise control over the proceedings.

B. Judicial Appeals Board

1. Composition - The Judicial Appeals Board will consist of two enrolled students; two full-time faculty members; and two full-time members of the University community. A student member must be a student in good standing in order to be selected for and remain on the Judicial Appeals Board.

2. Selection of Board Members - In consultation with the Director of Student Judicial Services, student members will be appointed by the Student Government; faculty members will be selected by Faculty Council; and the full-time members from the University community will be selected by the President or his/her designee.

3. Terms of Office - Board members will be appointed for a three-year term. They may be reappointed by the person or body who appointed them. A Chief Justice will be elected by a majority vote of all of the Judicial Appeals Board members.

4. Removal from Office - A board member who is consistently unavailable for appellate reviews may be removed from the board by a simple majority vote of the total Judicial Appeals Board.

5. Jurisdiction - The Judicial Appeals Board will serve as the panel to review decisions rendered by the University Judicial Board during the formal hearing process. Both the charged party and the University will have the right to appeal a University Judicial Board decision.

6. Procedural Considerations
   a. Selection of the Judicial Appeals Board members for any given case depends on the availability of the members at the time scheduled for the appeal.
b. A quorum will exist with the presence of the Chief Justice and any two other Judicial Appeals Board members, except that any three Judicial Appeals Board members may hear the appeal if the Chief Justice can not be available within a reasonable time, not to exceed 14 work days from the date of receipt of the written appeal.

Section VIII: Rights of Charged Student(s)/Student Organizations in Disciplinary Proceedings

The following rights apply to a student conduct proceeding that has reached the level of a formal hearing, except that Rights One through Four apply also to any investigative meeting held with Student Judicial Services and to the Informal Disposition Conference. Student(s)/student organizations will have the right to:

1. Remain silent and not have that silence used against them.
2. Have a voluntary adviser present who may participate in the proceedings. The adviser must be a member of the University community, and if the adviser is another EMU student, she/he must be a student in good standing.
3. Engage an attorney, at the student/student organization's own expense, only when criminal prosecution is pending on charges stemming from the same incident. The attorney may appear at the proceedings with the student(s) to provide advice, but may not represent the student(s)/student organization, directly question or cross-examine witnesses, or, in any other way, participate in the proceedings.
4. Be given a written statement of the charges against them, in accordance with the provisions of Section IX.B. of the Student Conduct Code.
5. Adequate notice of dates set for all hearings, and related conferences and meetings.
6. Reasonable review of the disciplinary case file maintained by Student Judicial Services prior to a formal hearing and/or appeal.
7. Question and cross-examine the complainant and all witnesses.
8. Present witnesses and submit any pertinent, supportive documentation. The hearing board, by a 2/3 vote of members present at the hearing, may limit the number of witnesses in order to avoid dilatory tactics.
9. An open or closed hearing. A hearing will be considered open if no person is excluded until the room's capacity has been reached except that a person may be removed if his/her behavior is disruptive to the hearing process. A closed hearing will include only the charged student(s)/student organization, Student Judicial Services official(s), witnesses and members of the particular judicial board hearing the case.
10. Challenge a judicial board member on the grounds of bias, conflict of interest or any other factor that could preclude the board member from rendering an impartial and fair decision. The board member may be disqualified upon majority vote of the remaining members of the board present at the hearing, conducted by secret ballot. If the board votes to exclude the challenged board member from that particular hearing, the hearing will continue with the remaining board members present, even if the number of board members remaining is less than the number required by the Student Conduct Code to reach a quorum for that hearing.
11. A written statement of the outcome of the proceeding, and a description of the appeal procedure.
12. Make a taped recording of the proceeding at their own expense.
13. Appeal the decision of the University Judicial Board, subject to the provisions of the Student Conduct Code, Section IX.E: Appeal of Formal Hearing Results.

Section IX: University Disciplinary Procedures

A. Reporting

Any member of the University community may initiate a complaint against a student or student organization for an alleged violation of the Student Conduct Code through the Student Judicial Services office. A complainant shall submit the complaint to the Student Judicial Services office within a reasonable amount of time from the date he/she becomes aware of the alleged violation. For purposes of this Code, an incident report generated by the Department of Public Safety or an incident report generated by University Housing will be considered a complaint to be reviewed by Student Judicial Services for possible Student Conduct Code violations.

B. Charges and Notice
1. Student Judicial Services will investigate each complaint, and if the circumstances surrounding the complaint indicate that a violation of the Student Conduct Code may have occurred, disciplinary charges may be issued. The student(s)/student organization will be notified of the charges in writing. Notice of the charges will be considered adequate if it is sent to the student(s)/student organization's last known address registered with the University or to the address given by a student on either an EMU Department of Public Safety's Incident Report or on a Housing Incident Report.

2. Proper written notice to a student/student organization will include the following:
   a. Recitation of facts surrounding the incident, in as sufficient detail as possible as to date, time, and location;
   b. Statement of the specific Conduct Code provision(s) violated;
   c. Any penalty assigned or other action taken;
   d. Amount of time the student(s)/student organization has to respond to the notice;
   e. Ramifications of not responding to the notice within the time limit; and
   f. Copy of "Rights of Charged Students/Student Organizations in Disciplinary Proceedings."

3. Student Judicial Services may place a judicial hold on a student's academic record, and/or may go forward with disciplinary action against a student/student organization in either of the following situations:
   a. The student or student organization fails to respond to a charge letter sent by Student Judicial Services within the applicable time limit.
   b. The student withdraws from the University after allegedly committing a violation, whether or not Student Judicial Services has yet had the opportunity to charge the student with a Conduct Code violation.
   c. The student/student organization fails to appear at the scheduled formal hearing or appeal hearing.

C. Disposition of Cases

1. disciplinary case may be handled in one of the following two formats:
   a. Informal Disposition Conference - The student(s)/student organization representative and a Student Judicial Services judicial officer will meet informally to discuss the alleged violation(s). If the substantive facts and sanction(s) can be agreed upon by the judicial officer and the charged student(s), a disciplinary action agreement will be prepared and signed by both sides. A signed disciplinary action agreement will constitute a waiver of the right to a formal hearing and any appeal, and an acceptance of the finding(s) and sanction(s). The President or his/her designee must approve any suspension, permanent dismissal or permanent termination of a student organization's University status.
   b. Formal Hearing - If, during the informal disposition conference, the student(s)/student organization disputes the findings by Student Judicial Services that a violation has occurred or if an appropriate sanction(s) cannot be agreed upon, the case will be referred to the University Judicial Board for a formal hearing.

D. Procedures for Formal Hearings

1. Notice of Hearing - After the formal hearing is scheduled, Student Judicial Services will notify the student(s)/student organization involved of the date, time and place of the hearing and of the pre-conference.
2. Pre-conference - At least two days prior to the formal hearing, a pre-hearing conference will be scheduled by Student Judicial Services for any charged student(s)/student organization. The two day requirement may be modified by mutual consent of the charged student(s)/student organization and Student Judicial Services. The conference will include the presiding officer of the University Judicial Board or a designee, the Director of Student Judicial Services or a designee, any individual designated to represent the University, and the charged student(s)/student organization and their adviser.

The purpose of the prehearing conference will be to identify those issues and facts which will be presented at the hearing, to exchange information as to witnesses likely to be called, to answer procedural questions, and to settle those matters which may be agreeably concluded. The conference will not be used to settle the issue
of whether or not the violation was committed or to challenge any recommended sanctions. Failure of the charged student(s)/student organization or the adviser to appear will in no way affect any of their procedural rights and will not prohibit a hearing from being set and being held.

3. Formal Hearing Premises - The following premises will govern any formal hearing:
   a. The focus of inquiry in a University hearing will be the determination of whether a violation of University rules occurred, and such decision will be totally unrelated to any criminal or civil decisions against the student(s)/student organization arising from the same incident.
   b. Formal rules of evidence will not apply to University proceedings, nor will deviations from these prescribed procedures necessarily invalidate a decision or proceeding unless significant prejudice to the charged student(s)/student organization or the University may result.
   c. The charged student(s)/student organization will be presumed to have not violated the Student Conduct Code until it is proven otherwise.
   d. The burden of proof during a formal hearing will rest with the University. The University must prove its case by a preponderance of the evidence, meaning that the evidence, considered in its entirety, indicates that, more likely than not, the charged student(s)/student organization committed the violation(s).
   e. The Student Judicial Services officer may recommend a sanction to the University Judicial Board during the formal hearing, but the University Judicial Board will have the authority to reject the recommendation and issue any sanction(s) deemed appropriate.
   f. All formal hearings will be tape-recorded. Tapes will remain the property of the University and will serve as the official record of the proceedings.

4. Disposition of the Case
   a. University Judicial Board decisions as to culpability of the charged student(s)/student organization and sanctions to be issued will be made by a simple majority of the University Judicial Board members present at the hearing. After hearing the case, board members will go into closed session to reach a decision.
   b. Decisions of the University Judicial Board will be in writing. The decision will state what rule was violated, the behavior constituting the violation, and any sanctions issued. Within two working days, the written decision will be submitted to the Director of Student Judicial Services. If the recommended sanction is not a suspension, permanent dismissal of the student or permanent termination of University status, the Director of Student Judicial Services will mail the decision to the student(s)/student organization within two working days after being submitted to that office by the University Judicial Board.
   c. If the recommended sanction is either a suspension, permanent dismissal or permanent termination of University status, the Director of Student Judicial Services will submit the decision to the President or his/her designee for review. The President or his/her designee will either accept or reject the University Judicial Board's decision to suspend, permanently dismiss the student, or permanently terminate the University status of a student organization. If the decision is rejected, the President or his/her designee will provide to Student Judicial Services a written rationale for the rejection of the University Judicial Board's sanction. A rejection of the University Judicial Board's sanction will constitute an automatic appeal to the Judicial Appeals Board.
   d. The President or his/her designee will have five working days after submission of the University Judicial Board's decision to take action. If no action is taken during that time, the University Judicial Board's decision will be considered approved.
   e. Student Judicial Services will mail the written decision to the student(s)/student organization within one working day following any presidential action. If the five working days lapse without the President or his/her designee taking action, Student Judicial Services will mail the University Judicial Board's written decision to the student(s)/student organization on the sixth working day following the submission of the decision to the President or his/her designee for review.

E. Appeal of Formal Hearing Results

1. Right to Appeal - Student(s)/student organizations or the University (represented by Student Judicial Services) may request that the University's Judicial Appeals Board review the decision rendered at the
conclusion of the formal hearing process. Student(s)/student organization(s) may challenge the finding of the University Judicial Board that a violation occurred and/or the sanction(s) assigned. Conversely, the University may challenge the finding of the Board that no violation occurred or that the sanction(s) issued were not severe enough for the violation committed.

2. Appeal Process for Student(s)/Student Organizations - The following steps should be followed by student(s)/student organizations in order to file an appeal:
   a. A written request for an appeal must be submitted to Student Judicial Services within seven working days from the date of the written decision from the formal hearing. The appeal will be immediately forwarded to the Judicial Appeals Board for consideration. Unless extenuating circumstances can be shown, failure to appeal within the allotted time will render the University Judicial Board's decision final.
   b. The written request for an appeal must state the grounds for appeal (citing the appropriate grounds from the "Grounds for Appeal" list below); a discussion of the evidence and facts in support of the appeal; and a recommended solution.
   c. The request for an appeal must be typed and should include any supporting documentation that should be considered by the Judicial Appeals Board.
   d. Grounds for Appeal - The following will be considered the only grounds for an appeal:
      1. There were procedural errors in the case or in the interpretation of University rules and regulations serious enough to deny the student(s)/student organization a fair hearing.
      2. There is new evidence of a substantive nature not previously available at the time of the hearing, which would have materially affected the decision.
      3. The severity of the sanction is disproportionate to the violation(s) committed.
      4. The decision of the Board was not supported by the evidence presented at the hearing.

3. Appeal Process for the University - The following steps should be followed by the University in order to file an appeal:
   a. A written request for an appeal must be submitted by Student Judicial Services to the Judicial Appeals Board within seven working days from the date of the written decision from the formal hearing. A copy of the appeal will also be made available to the student(s)/student organization. Unless extenuating circumstances can be shown, failure to appeal within the allotted time will render the University Judicial Board's decision final and conclusive.
   b. The written request for an appeal must state the grounds for appeal (citing the appropriate grounds from the "Grounds for Appeal" list below); a discussion of the evidence and facts in support of the appeal; and a recommended solution.
   c. The request for an appeal must be typed and should include any supporting documentation that should be considered by the Judicial Appeals Board.
   d. Grounds for Appeal - The following will be considered the only grounds for an appeal:
      1. There were procedural errors in the case or in the interpretation of University rules and regulations serious enough to affect the University's chance of proving its case.
      2. The sanction is too lenient given the violation(s) committed.
      3. There is new evidence of a substantive nature not previously available at the time of the hearing, which would have materially affected the decision.
      4. The decision of the Board was not supported by the evidence presented at the hearing.

4. Scheduling an Appeal
   a. The Judicial Appeals Board will convene an appeal hearing as soon as possible after receiving the written appeal. A quorum will exist with the presence of the Chief Justice and any two other board members, except that any three board members may handle the appeal if the Chief Justice cannot be available within a reasonable time, not to exceed 14 calendar days from the receipt of the written appeal.
   b. After the appeal is scheduled, Student Judicial Services will notify the student(s)/student organization involved of the date, time and place of the hearing.

5. Appeal Hearing Premises - The following premises will govern any appeal hearing:
   a. Deviations from these prescribed procedures will not necessarily invalidate a decision or proceeding unless significant prejudice to the charged student(s)/student organization or the University may result.
b. On appeal, the burden of proof rests with the appellant to clearly exhibit that one of the four grounds for an appeal has been met; this is not a rehearing of the entire case.
c. All appeal hearings will be tape-recorded. Tapes will remain the property of the University and will serve as the official record of the proceedings.
d. Any sanction(s) issued by the University Judicial Board will not take effect until the appeal process is completed.

6. Disposition of the Appeal

a. Prior to the appeal hearing, the Judicial Appeals Board will meet in closed session to review the written decision of the University Judicial Board, the written appeal, any supporting documentation provided by the Appellant, and the tape recording of the formal hearing.
b. After reviewing the case materials, the Judicial Appeals Board will convene the Appeal Hearing and call in both parties to the appeal. The student(s)/student organization may bring an adviser to the Hearing who may speak on their behalf. The adviser must be a member of the University community, and if the adviser is a student, he/she must a student in good standing.
c. The party who filed the appeal will be allowed 15 minutes to present his/her case to the Judicial Appeals Board. The Board members may then ask questions of the appellant. The opposing side will then be given 15 minutes to present its counter-arguments, after which the Board members can ask questions of that party.
d. The Judicial Appeals Board will again go into closed session to reach a decision in the case, then reconvene the Hearing and read its decision. The decision will be made by a simple majority of the Judicial Appeals Board members present at the hearing.
e. The Judicial Appeals Board may take one of the following actions:
   1. Uphold the decision of the University Judicial Board in its entirety.
   2. Alter the sanctions imposed by the University Judicial Board except that the Board cannot increase the severity of the sanctions if the appeal was filed by the student(s)/student organizations.
   3. Send the case back to the University Judicial Board for a new hearing only if there were errors in procedures or interpretation of University rules and regulations or there is new evidence in the case. A decision issued by the University Judicial Board in a case sent back to it by the University Appeals Board may not be appealed again and will be the final decision, pending approval by the President or his designee in accordance with subsection F below.
   4. Dismiss the case against the student(s)/student organization.
f. In cases where the Judicial Appeals Board, or the University Judicial Board upon a rehearing of the case, issues a suspension, permanent dismissal of the student or permanent termination of University status of a student organization, the decision will be sent to the President or his/her designee for review. The President or his/her designee will have five working days after submission of the decision to either affirm or alter the decision. This decision will be final. If no action is taken during that time, the appellate decision, or the decision from a re-hearing, will be considered approved.
g. Student Judicial Services will mail the written decision to the student(s)/student organization within one working day following any presidential action. If the five working days lapse without the President or his/her designee taking action, Student Judicial Services will mail the written decision to the student(s)/student organization on the sixth working day following the submission of the decision to the President or his/her designee for review.

Section X: Special Disciplinary Provisions Governing Acts of Academic Dishonesty

A. Academic dishonesty is both an academic matter between a student and his/her faculty member and a violation under the Student Conduct Code subject to University disciplinary action. An act of academic dishonesty may and should be handled by the faculty member, the student, and, if appropriate, the faculty member's department head and/or the dean over that particular academic department. Sanctions that can be assigned by a faculty member range from giving a reduced grade on the particular work in question to failing the student for the entire course. In addition, some academic departments and programs have their own
policies for dealing with academic dishonesty and/or violations of Professional Codes of Ethics which allow the department or program to impose sanctions ranging from probation to program dismissal. A sanction assigned by a faculty member and/or an academic department or program is an academic, not a disciplinary, sanction.

B. If the matter is resolved satisfactorily between the student and the faculty member, and the faculty member decides not to refer the student for University disciplinary action, the faculty member may still report the incident to Student Judicial Services. Student Judicial Services will maintain a record of the reported incident and may elect to pursue University disciplinary action against a student who is reported to that office for a subsequent act of academic dishonesty.

C. If the faculty member decides that a stronger sanction is needed instead of or in addition to any academic sanctions assigned by that faculty member, the incident may be referred to Student Judicial Services for review and possible University disciplinary action. Once the referral is made to Student Judicial Services, the incident will be handled in the same manner as would any other allegation under the Student Conduct Code.

D. In cases where the student denies the allegation of academic dishonesty, the faculty member may elect to postpone assigning any academic sanctions until after the student has gone through the University disciplinary process. If, at the end of that process, the charge of academic dishonesty is upheld, the faculty member may then assign an academic sanction. The academic sanction is independent of any disciplinary actions taken against the student by the University.

E. Academic sanctions assigned by the faculty member in agreement with the student or assigned by the faculty member after the charge of academic dishonesty has been validated through the University disciplinary system cannot be grieved under the University's Grade Grievance Procedure.

Section XI: Special Provisions Governing the University Recognition and Conduct of Greek Letter Social Organizations

A. Because of the importance of the Greek social system and because of the unique circumstances under which it operates, the following conditions have been established between the University and the Greek social organizations. These provisions set out the requirements for maintaining University recognition and good standing and delineate specific violations that may be handled through the Greek social system's own judicial process rather than under the University's Student Conduct Code.

B. The University reserves the right to retain jurisdiction over cases in which the conduct violates both these provisions and the University's Student Conduct Code and the University determines that the misconduct is of such severe nature as to impair, obstruct, interfere with or adversely affect the mission, processes or functions of the University.

C. The University may take action against an individual member of a student organization for misconduct that is a violation both of this provision and of the Student Conduct Code, regardless of any separate disciplinary action taken against the student organization.

D. This section of the Student Conduct Code applies only to the relationship between the University and the Greek social organizations and has no bearing on relations between chapters and national and/or alumni agreements.

E. Good standing must be maintained in order for Greek social organizations to participate in Greek-sponsored activities. Failure to do any of the following will constitute a violation of these provisions of the Student Conduct Code and will subject the Greek social organization to disciplinary action, including possible loss of good standing, as described within these provisions under subsections F and G:

1. Registering annually as a recognized student organization with the Office of Campus Life;
2. Participating in the appropriate Greek governing bodies (Greek Council and either Black Greek Council, Interfraternity Council or Panhellenic Council);
3. Submitting roster and grade release forms for active members and pledges/associates during the first month of the semester;
4. Following all rules and guidelines for Greek Rush; and
5. Abiding by all terms and conditions of the alcohol and controlled substance guidelines below:
   a. The possession, use and/or consumption of alcoholic beverages while on chapter premises during an official event or in any situation sponsored or endorsed by the chapter or organization must be in compliance with any and all applicable laws and University rules and policies.
b. No chapter or organization members, collectively or individually, shall purchase for, serve to, or sell alcoholic beverages to anyone under the legal drinking age.

c. The possession, sale, and/or use of any illegal or controlled substance at any chapter, organization or University-sponsored event are strictly prohibited.

d. Alcohol or controlled substances will be prohibited at any and all rush activities.

e. Open parties where alcohol is provided by the host chapter, meaning those with unrestricted access by nonmembers of the organization without specific invitation, will be prohibited.

f. All organizations must provide, at no charge, an alternative nonalcoholic beverage and food at any event where alcohol is provided.

g. There will be no solicitation or encouragement of alcohol consumption by contest or promotion at any chapter event where alcoholic beverages are present.

F. Greek organizations whose members are in violation of this policy, regardless of whether the individuals are identified, will be subject to one or more of the sanctions listed in the Student Conduct Code, Section VI.B: Sanctions for Student Organizations.

G. The following process will be utilized in any incident alleging a violation of these policy provisions by a Greek social organization:

1. The incident will be referred to the respective Greek Judicial Board for hearing and original adjudication (i.e., sorority cases will be handled by the Panhellenic Council, fraternity cases will be heard by IFC, and black Greek cases will be heard by the Black Greek Council). Each Greek Council will establish its own judicial board and its own set of hearing procedures for handling the incident. The chair of the respective Greek Judicial Board will immediately inform Student Judicial Services about any incident referred to it.

2. A decision rendered by the respective Greek Judicial Board may be appealed either by the party alleging the violation or by the Greek social organization being accused of a violation. The appeal will be made to the Greek Council Judicial Board, which may accept, modify or reject any sanction issued by the Greek Judicial Board.

3. Student Judicial Services will receive written transcripts of all final judicial decisions, whether from the respective Greek Judicial Board (if there was no appeal of its decision) or from the Greek Council Judicial Board (for decisions that were appealed). Student Judicial Services will review the decision and may accept or reject the proposed sanctions.

4. In the event Student Judicial Services rejects the final decision, the Director will provide a written explanation of the rejection and a recommended alternative.

5. In the event that Student Judicial Services and the Greek board rendering the final decision cannot reach an agreement, the case will be referred to the Eastern Michigan University Judicial Appeals Board as outlined in the Eastern Michigan University Student Conduct Code. In this instance Student Judicial Services will notify the national or international headquarters of the organization involved. In the case of local organizations, the Alumni Association will be notified.

Section XII: Interim Suspensions and Other Interim Sanctions

A. For alleged violations of this Code, interim sanctions, including but not limited to interim suspension, reassignment to alternate housing, limitation of access to designated University housing facilities and/or campus facilities by time and location, and limitation of privilege to engage in specified University activities, may be imposed by the President or his/her designee. Such interim sanctions are to be utilized only when there is reason to believe that the student(s)/student organization's conduct poses a substantial threat of harm to oneself or others, threatens or endangers University property, or disrupts the stability and continuance of normal University operations and functions.

B. For interim suspensions only, a student will be denied access to the residence halls, and/or to the campus (including classes), and to all other University activities or events which the student might otherwise be eligible to participate in or attend. A student organization will lose its University student organization status and will be denied access to any University activities or events which the student organization might otherwise be eligible to participate in or attend.
C. A student/student organization will be notified of an interim sanction or interim suspension, orally, by written notice served on the student/student organization or by written notice sent to the last address on record. The interim sanctions or interim suspension take effect the day issued by the President or his/her designee.

D. A student/student organization issued an interim suspension or interim sanctions will be given an opportunity to appear before the Vice President of Student Affairs or a designee within three working days in order to discuss the following issues only:
1. the reliability of the information concerning the student/student organization's alleged misconduct.
2. whether the conduct and surrounding circumstances reasonably indicate that the continued presence of the student on University premises poses a substantial and immediate threat to himself/herself, to others, or to property.

E. The Vice President for Student Affairs or his/her designee may affirm or alter the interim sanctions or interim suspension based on the discussion with the student/student organization. If the decision is affirmed, the Vice President or his/her designee will inform the student/student organization of that decision at the conclusion of the discussion. Regardless of whether the interim sanctions or interim suspension is affirmed or altered, the Vice President or his/her designee will direct that a formal hearing before the University Judicial Board take place within 10 days. If the University fails to schedule the formal hearing within the 10 day period, the interim sanctions or interim suspension will cease although the original charges will not be dropped and will still be handled through the University's disciplinary process.

Section XIII: Emergency Powers of the President

A. The President, as Chief Executive Officer of the University, is charged with the maintenance of that degree of order and safety necessary to the successful continuation of the University's lawful mission, and he/she is further charged with the authority to protect the members of the University community and University property.

B. When faced with mass disruptions, activity of a violent and destructive nature, or other dangerous violations of University rules of a serious enough nature to threaten the University, the President, after consultation with and approval of the Board of Regents, may declare a "state of emergency" and do any of the following:
1. Impose and have enforced a curfew on all or portions of the University campus.
2. Curtail or suspend services.
3. Close the University or portions of the University entirely for the period of emergency.
4. Issue an emergency suspension and forbid the presence on campus of any student(s)/student organization(s) if they have been sufficiently identified to him/her as participants in activities which violated University policy and led to the conditions described above. Suspensions issued under this section of the code are effective immediately upon notice to the student(s)/student organization(s).
5. Appoint a Special Hearing Board on an ad hoc or extraordinary basis to make a recommendation as to whether any emergency suspensions issued should be continued. The Special Hearing Board will convene and make its recommendations to the President within seven calendar days from the effective date of the emergency suspension. Regardless of the recommendation to the President as to the continuation of the emergency suspension, the President will direct Student Judicial Services to convene a formal hearing before the University Judicial Board within 10 days of the date of the Special Hearing Board's recommendation to the President in order to rule on the original charges brought against the student(s)/student organization(s).
6. Take other actions that may be explicitly stated in or implied by any laws governing the authority of the University and/or the President in emergency situations.

C. Note:
Due to the unique circumstances and severe conditions that would lead the President to exercise any of his/her emergency powers, an emergency suspension issued under this section of the Code is to be considered different from an interim suspension issued under the conditions stated in Section XIII. The issuance and review of an emergency suspension will be handled in accordance with the procedures outlined above in subsections 4 and 5.

D. The Board of Regents, regardless of granting any emergency powers to the President, in no way restricts its own powers and prerogative to carry out its obligations and duties as imposed by the Constitution and laws of the state of Michigan.
Section XIV: Student Disciplinary Files and Records

A. Student Judicial Services will establish a student disciplinary file whenever a case is referred for investigation of a possible Conduct Code violation. A student or student organization's file will be destroyed if the investigation indicates that no violation occurred. The file of a student/student organization found to have violated the Conduct Code will be retained for four years from the date of the sanction or until the student's graduation from the University, whichever comes first. Student conduct records may be retained longer or permanently if the student was suspended or permanently dismissed or if there is reason to believe the case could result in future litigation.

B. A notation will be made on the student's official University transcript if the student was suspended, permanently dismissed or given an "E" grade in a course as a result of academic dishonesty.

C. The release of student disciplinary records will be governed by applicable federal and state laws governing the privacy of educational records.

Section XV: Review of the Student Judicial System

A. Student Judicial Services will convene a Student Judicial System Review Committee at least every four years that will be responsible for carrying out the following tasks:
   1. Reviewing the goals and effectiveness of the University's disciplinary system;
   2. Reviewing the effectiveness of the types of sanctions issued;
   3. Recommending changes to the Student Conduct Code;
   4. Recommending changes in the judicial processes and procedures established and followed by Student Judicial Services; and
   5. Recommending training sessions and publications on topics related to the mission of Student Judicial Services to educate the campus community about student conduct and the campus judicial processes.

B. The Committee will be appointed and chaired by the Director of Student Judicial Services and will include one representative from the following areas: Ombudsman; Legal Affairs; Housing; Health Services; Counseling Services; Student Government; Faculty Council; Department of Public Safety; Chief Justice of the University Judicial Board; and Chief Justice of the Judicial Appeals Board.

Amendments to the Student Conduct Code that receive the support of the Review Committee will be forwarded, in accordance with University procedures, to the Board of Regents for approval.

University Alcohol and Other Drug Policy

The University is committed to promoting and maintaining a work and academic environment that is free from illegal alcohol and drug use and abuse, in accordance with all federal, state, and local laws. Students and employees are prohibited from reporting to work or working under the influence of alcohol or drugs.

Employees may not consume, possess, distribute, or be under the influence of alcoholic beverages on University property or while on University business (except at University functions at which use of alcohol is approved). Employees, students, and campus visitors aged twenty-one (21) years or older, consuming alcohol at University functions or while on University business, where such use is approved, are expected to use alcohol responsibly and not engage in illegal, unprofessional, or disruptive behavior.

Students and campus visitors who have attained the legal drinking age of twenty-one (21) years of age may possess and consume alcoholic beverages only at approved University functions or in residence hall rooms of students who have attained the legal drinking age. Those under twenty-one (21) years of age are not permitted to consume or possess alcoholic beverages at any time.

Students, employees, and visitors are prohibited from dispensing, selling or supplying alcoholic beverages to a person under the legal drinking age as defined by Michigan law.

Students, employees, and visitors are prohibited from possessing, consuming, manufacturing, dispensing, or being
under the influence of illegal drugs or engaging in improper self-medication while on University property or University business.

Any member of the University community who violates this policy is subject to both prosecution and punishment under federal, state and local laws and to disciplinary proceedings by the University.

This policy is not designed to punish people for seeking rehabilitation. All information about those individuals who voluntarily avail themselves of drug or alcohol counseling or rehabilitation services will remain confidential. Seeking counseling or rehabilitation will not be used as a basis for disciplinary action or be used against an individual in any way.

University employees and students who violate this policy shall be informed about and referred to services to assist them in determining whether they are abusing drugs and alcohol or are chemically dependent. If a problem is found to exist, the individual will be referred to resources to assist him/her in overcoming the drug or alcohol abuse pattern. This referral or assessment shall not limit the University's ability to pursue appropriate disciplinary action, up to and including termination or expulsion, when an employee or student has violated this policy or any other University policy.

This policy shall not add to or supersede union contracts or established employee work rules.

Health Risks of Alcohol and Other Drugs

- **ALCOHOL** Loss of concentration and judgment, slowed reflexes; disorientation leading to higher risk of accidents and problem behavior; risk of liver and heart damage, malnutrition, cancer and other illnesses; can be highly addictive to some persons.

- **AMPHETAMINES** Can cause rushed, careless behavior - pushing beyond your physical capacity, leading to exhaustion; tolerance increases rapidly; causes physical and psychological dependence; withdrawal can result in depression and suicide; continued high doses can cause heart problems, infections, malnutrition, and death.

- **CANNABIS** Causes permanent damage to lungs, reproductive organs and brain function; slows reflexes; increases forgetfulness; alters judgment of space and distance.

- **COCAINE** Causes damage to respiratory and immune systems; induces malnutrition, seizures and loss of brain function. Some forms (such as "crack") are highly addictive.

- **HALLUCINOGENS** (PCP, LSD, Ecstasy) Causes extreme distortions of what's seen and heard; induces sudden changes in behavior, loss of concentration and memory; increases risk of birth defects in user's children; overdose can cause psychosis, convulsions, coma, and death. Frequent use can cause permanent loss of mental function.

- **NARCOTICS** (Heroin, morphine, opium, codeine) Tolerance increases rapidly; causes physical and psychological dependence; overdose can cause coma, convulsions, respiratory arrest, and death; leads to malnutrition, infection and hepatitis; sharing needles is a leading cause of the spread of HIV and Hepatitis; highly addictive.

- **SEDATIVES** Tolerance increases rapidly; produces physical and psychological dependence; causes reduced reaction time, and confusion; overdoses can cause coma, respiratory arrest, convulsions, and death; withdrawal can be dangerous; in combination with other controlled substances can quickly cause coma and death.

Assistance Available to Faculty, Staff, and Their Families at EMU:

- **Ceridian/LifeWorks** 877.234.5151
- **www.lifeworks.com** 800.999.3004

Assistance Available to Students at EMU:

- **University Health Services:**
  - Counseling Services 734.487.1118
  - Health Education Program 734.487.2226

- **Department of Public Safety** 734.487.1222
Alcohol and Other Drug Abuse Treatment Services Available in S.E. Michigan

Adrian
- Emma Bixby Medical Center and Satellite Sage Center for Substance Abuse Treatment 517.265.0411

Ann Arbor/Ypsilanti Area
- St. Joseph’s Mercy Hospital Chemical Dependency Services, 734.786.4900, website: www.sjmh.com
- Ann Arbor Consultation Services, 734.996.9111
- U of M Addiction Treatment Services (UMATS), toll free 800.828.8020 or 734.232.0600
- Alcoholics Anonymous, 734.482.5700, Huron Valley Area Intergroup, website: www.hvai.org
- Narcotics Anonymous for Washtenaw & Livingston County, 734.913.9839
- Dawn Farm, 734.485.8725 or 734.669.8265
- Washtenaw County Health Services Access (for those with no ability to pay), 800.440.7548 or 734.544.3050

Brighton/Livingston County
- Brighton Hospital, 888.215.2700 or 810. 227.1211, web site: http://brightonhospital.org/
- Narcotics Anonymous for Washtenaw & Livingston County, 734.913.9839

Detroit Metropolitan Area
- Alcoholics Anonymous for Detroit or Wayne County, 313.831.5550
- Narcotics Anonymous, 248.543.7200
- Insight Recovery Centers, 248.524.9530, web site: www.insightrecovery.org/wayne.htm
- Eastwood Clinics: website: www.stjohn.org
  - Dearborn, 313.583.0735
  - Detroit (Gratiot & 8 Mile), 313.369.5000

Flint
- Insight Recovery Centers, 810.733.0900 or 800.356.4357 web site: www.insightrecovery.org
- Community Recovery Services, 810.744.3600
- Narcotics Anonymous, 810.238.3636
- Alcoholics Anonymous, 810.234.0815

Jackson
- Washington Way, 517.782.4001
- Alcoholics Anonymous in Jackson, 517.789.8883

Toledo
- Alcoholics Anonymous, 419.380.9862
- Narcotics Anonymous, 800.587.4232
- Toledo Hospital Alcohol & Drug Assessment and Treatment Center
  - Inpatient: 419.291.2351
  - Outpatient/assessment: 419.291.2300

Sanctions for Violations of Laws & Policies:

The laws of the State of Michigan and Eastern Michigan University’s policies and rules prohibit the consumption or possession for personal consumption of alcoholic beverages by persons less than 21 years of age. Further, Michigan laws and University policies prohibit the sale, service or giving of alcoholic beverages to persons under the age of 21. Eastern Michigan University’s policies and rules, local ordinances and laws, state laws and federal laws also prohibit
the unlawful possession, use and/or distribution of illicit drugs and alcohol.

**Community Sanctions:**
Violations of laws and ordinances may result in misdemeanor or felony convictions accompanied by the imposition of legal sanctions which include, but are not limited to, the following:

- Fines as determined under local, state or federal laws.
- Imprisonment, including up to life imprisonment, for possession of more than 650 grams or trafficking in drugs such as Heroin and Cocaine.
- Forfeiture of personal and real property.
- Denial of federal benefits such as grants, contracts, and student loans.
- Loss of driving privileges.
- Required attendance at substance abuse education or treatment programs.
- Federal laws prohibit possession, use, distribution, manufacture or dispensing.

A full description of federal sanctions for drug felonies can be found at:  www.usdoj.gov/dea/agency/penalties.html

**University Sanctions:**
Violation of University policies and rules will be subject to campus disciplinary review and action, as follows:

**Faculty and Staff:**
Disciplinary action will be taken as per applicable collective bargaining agreements and University policy up to and including termination of employment.

Information about violations related to tobacco use can be found under EMU Tobacco Use policy.

**Students:**
Disciplinary action will be taken by Student Judicial Services under the Student Conduct Code and may include sanctions ranging from formal reprimand to permanent dismissal, in addition to counseling and/or referral to a substance abuse educational/intervention program. In certain circumstances, parents of a student under 21 years old will be notified about the drug or alcohol violation, as per Eastern Michigan University’s policy on Parental Notification. The FERPA policy can be found at www.emich.edu/registrar/ferpa.htm.

Information about violations related to tobacco use can be found under EMU Tobacco Use policy.

In addition to University-level action taken under the Student Conduct Code, other University departments maintain internal policies and rules regarding alcohol and other drugs and may impose sanctions against students and/or student groups which violate these policies. For example, University Housing, Athletics, Greeks, Study Abroad and several academic departments have policies addressing alcohol and other drugs. Any action taken under one policy does not prevent action being taken under any other policy.

**Employee Reporting Requirement:**
Under the Drug Free Schools and Communities Act Amendments of 1989, a faculty or staff member employed under a federal grant or contract must notify the University (Human Resources, Employee Relations, 734.487.0083; or Academic Human Resources, 734.487.0076, in writing, of his or her arrest or conviction for violation of any criminal drug statute occurring in the workplace or while on University business no later than five days after such arrest or conviction.

**Review of EMU’s Alcohol and Other Drug Abuse Prevention Program:**
The University will review its Alcohol and Other Drug Abuse Prevention Program every 2 years to determine its effectiveness and implement changes to the program as needed and to ensure that the disciplinary sanctions applied by
EMU Policy on Notification to Parents of Drug and Alcohol Violations

1. When the University has determined that a student has committed a second disciplinary violation with respect to campus rules regarding the use or possession of drugs or alcohol, the University will disclose to parents or legal guardians such information if the student is less than 21 years of age.

2. Parents will be notified of a first disciplinary violation with respect to campus rules regarding the use or possession of drugs or alcohol if (a) the incident also involves another serious offense; or (b) if there is reason to believe that a student’s health and well-being are in jeopardy; or (c) the violation results in a sanction of either housing probation or higher or University-level probation or higher. In cases where the drug or alcohol violation also involves another serious offense, the University will only release details of the drug or alcohol violation to the parents or legal guardians.

3. At the point at which it is determined that parental notification is permitted under the provisions of this policy, the student will be given twenty-four (24) hours to make the initial contact with the parents or legal guardians prior to the University notifying the parents or legal guardians.

4. Within the twenty-four (24) hour time period that a student has to notify his/her parents or legal guardians, the student may submit documentation or a written statement indicating that there are special circumstances that make parental notification inappropriate. The University’s designee will consider the request and make a determination as to notification on a case-by-case basis.

5. Parental notification is in addition to any other sanctions issued by the University.

Tobacco Use Policy

University Policy Statement

The University is committed to promoting and maintaining a healthy work and academic environment that is as close to tobacco free as practicably possible and in accordance with all federal, state and local laws. Students, employees and visitors are prohibited from using tobacco throughout all University buildings (exception University Apartments), University vehicles and outside of buildings within 25 feet of any entrance, air intake duct and/or window.

- The use of tobacco products is prohibited in all University buildings and leased spaces. This prohibition applies to any area enclosed by the perimeter (outermost) walls of the building, including restrooms, warehouses, storage spaces, atriums, balconies, stairwells and other similar building features considered “within a building.”
- The use of tobacco products is prohibited within 25 feet of any building entrance, air intake duct and window.
- Specific outside areas for tobacco use will not be established or identified.
- The University will install ashtrays and other appropriate tobacco litter appliances beyond 25 feet from buildings.
- Individuals who use tobacco products will be responsible for their proper disposal.
- The use of tobacco products is prohibited in University vehicles. This prohibition includes passenger vehicles and all other state-owned mobile equipment, including light and heavy duty trucks, cargo and passenger vans, buses, golf carts and any other mobile equipment.
- The use of tobacco products is prohibited in outdoor areas where seating is provided.
- The use of tobacco products is prohibited on the grounds of the Children’s Institute.
- University Health Services will provide educational information and programs on tobacco use cessation.
- Vice presidents, deans, directors and department heads are responsible for informing the campus community of the tobacco use policy and overseeing day-to-day compliance. The appropriate administrative division will address violations and habitual offenders of this policy.
Sanctions for Violations of Laws & Policies

The laws of the State of Michigan and Eastern Michigan University’s policies and rules prohibit the use of tobacco in public buildings.

Community Sanctions:

- Violations of the Michigan Clean Indoor Air Act are subject to civil fines of not more than $100 for the first violation and not more than $500 for second or subsequent violations.
- Violations of the smoking prohibition at child care centers and child care institutions are subject to a stricter penalty of a fine not less than $100 and not more than $1,000.

University Sanctions:

Violation of University policies and rules will be subject to campus disciplinary review and action as follows:

Faculty and Staff:

Disciplinary action will be taken as per applicable collective bargaining agreements and University policy up to and including termination of employment for habitual repeat offenders.

Students:

Students who violate this policy are subject to disciplinary action in accordance with the provisions of the Student Conduct Code. Sanctions for violations may include verbal warning, formal reprimand, probation, suspension or dismissal.

Visitors:

Violation of University rules and regulations by visitors could result in permanent removal from EMU properties.

Health Effects of Tobacco Use

Smoking

- Cigarette smoking increases the risk for many types of cancer, including cancers of the lip, oral cavity, and pharynx; esophagus; pancreas; larynx; lung; uterine cervix; urinary bladder; and kidney.
- Cigarette smokers are 2 – 4 times more likely to develop coronary heart disease than nonsmokers.
- Cigarette smoking approximately doubles a person’s risk for stroke.
- Cigarette smoking has many adverse reproductive and early childhood effects, including an increased risk for infertility, preterm delivery, stillbirth, low birth weight, and sudden infant death syndrome.

Second-Hand Smoke

- Second-hand smoke is associated with an increased risk for lung cancer and coronary heart disease in nonsmoking adults. Second-hand smoke is a known human carcinogen (cancer-causing agent).
Because their lungs are not fully developed, young children are particularly susceptible to second-hand smoke. Exposure is associated with an increased risk for sudden infant death syndrome, asthma, bronchitis, and pneumonia in young children.

Smokeless Tobacco

- Smokeless tobacco contains 28 cancer-causing agents (carcinogens). It increases the risk of developing cancer of the oral cavity.
- Smokeless tobacco use can lead to nicotine addiction and dependence.

Assistance Available to Students, Faculty, Staff and Their Families at EMU:
University Health Services:
  Medical Services (734) 487-1122
  Health Education Program (734) 487-2226
For further information or a pdf downloadable version of the policy go to
www.emich.edu/uhs/tobaccopolicy.html

Acceptable Use of Information Technology Resources

Information technology resources are provided by Eastern Michigan University to its students, faculty and administration in support of the University's mission. These resources include, but are not limited to, personal computers, workstations, mini- and mainframe computers and voice, data and video communication networks.

These guidelines apply to any user of any device, workstation, desktop computer, local area network or mainframe system provided by the University and attached to the University network or MichNet network. This document outlines the acceptable use of these resources, and will be reviewed on an annual basis.

Access to Information Technology Resources

University faculty, administrators and staff are provided access to University information technology resources by virtue of their employment, and to institutional data by an appropriate steward. Students are provided access to University resources by virtue of their enrollment. Access to specific resources may be provided by appropriate academic departments. Other individuals may be provided access to University information technology resources through sponsorship by an appropriate University administrator.

Software Copyright Laws

Eastern Michigan University is licensed to use numerous microcomputer and mainframe software programs. The University enters into a license agreement with the owner of each computer program pursuant to which the University and its employees assume certain legally binding obligations. Licensed computer software is intended for the use specifically authorized in such agreements, remains the intellectual property of the owner and is protected by copyright laws. The University endorses the EDUCOM code of responsible software use as described in the publication Using Software: A Guide to Ethical and Legal Use of Software for Members of the Academic Community.

All University employees and students who use licensed software shall use that software only in accordance with the license agreement. There is no authority for an employee or student to violate the terms of a license agreement. To transfer the possession of any copy, modification or merged portion of any licensed program, whether gratuitously or for gain, shall be in violation of this procedure and is prohibited by the University. Such conduct may also violate state and federal law. Employees or students who make, acquire or use unauthorized copies of computer software or otherwise violate this procedure shall be subject to disciplinary action in accordance with the University policy. They
may also be subject to personal liability under copyright law. Employees or students using personal software on University devices must demonstrate evidence of ownership.

Acceptable Use

Eastern Michigan University is a member of Merit Network, Inc., and is connected to MichNet, the statewide higher education network, and to other networks provided by MichNet. As a member of Merit Network, Inc., the University complies with the MichNet Acceptable Use Policy. In addition to these policies, the University maintains and enforces this acceptable use procedure.

Users of University information technology resources agree to abide by applicable federal and state information technology laws, all applicable acceptable use policies, and all University policies and standards of conduct. The University's acceptable use procedure is based on the following principles:

- Respect for the privacy of other users. For example, users shall not obtain copies of files belonging to other users without permission, modify files or passwords belonging to other users, or represent themselves as other users.
- Respect for the legal protection by copyright and license to programs and/or data. For example, users shall not install or use illegal copies of licensed software.
- Respect for the security and integrity of information technology resources. For example, users shall not develop programs that harass other users, infiltrate or modify computer systems or networks, or damage or alter software or data components of a computer system.
- Open acknowledgment of use. For example, administrators of University resources are required to identify users of those resources. Account owners are responsible for any use of University resources made with their accounts.
- Departmental compliance. For example, administrators of open access computing labs may request that labs be attached to the University network if acceptable procedures are established to identify users. Departments may define additional "conditions of use" for resources under their control if these conditions are consistent with this procedure. Specific features of the University's acceptable use procedure are:

1. No person shall intentionally and without proper authorization gain access to, alter, damage or destroy a computer system or computer network or the software program or data contained in a computer, computer system or computer network.
2. No person is authorized to utilize in any manner University computer equipment and software and other University equipment, whether owned or leased by the University, when such use would be for personal financial gain and unrelated to any legitimate academic pursuit, unless the use is pursuant to a contractual arrangement in advance of use providing for appropriate compensation to the University, or when such use would be in violation of any University contractual arrangement with equipment or software vendors or lessors, or computer network organizations.
3. No person without proper authorization may utilize computer equipment or programs to gain access to, copy or obtain for personal use or information, records or information owned or possessed by the University.
4. No person may copy or distribute software, or its documentation, without the permission of the copyright holder.

Guidelines for Determining Acceptable Use

The intent of this procedure is to identify general uses which are consistent with the provision of information technology resources and the University's affiliation with Merit Network, Inc. It is not intended to enumerate all possible uses. This procedure is administered by the chief information officer. The University may determine if specific use of information technology resources is consistent with the provisions of this procedure. If a use is consistent with this procedure, then activities in a direct support of that use will be considered consistent. General guidelines for determining acceptable use include:
• Use for exchange of data or information for personal development, to maintain currency or debate issues in a field is acceptable.
• Use for disciplinary, professional, association or advisory activities related to the user's research and instructional activities is acceptable.
• Use in applying for or administering grants or contracts for research or instruction is acceptable.
• Use for general administrative activities and communication in support of research and instruction is acceptable.
• Use originating from a network of another authorized organization of an affiliated network which meets the acceptable use guidelines of that organization is acceptable.
• Use which is incidental to otherwise acceptable uses, except those which are illegal or specifically unacceptable, is acceptable.
• Development of computer systems which violate the guidelines outlined in this document is not acceptable.
• Establishing network connections which create routing patterns inconsistent with the effective and shared use of the University network is not acceptable. All planned network connections must be approved by the Division of Information Technology.
• Malicious use of any kind is not acceptable. Malicious use includes, but is not limited to, harassment of other users, attempts to develop or introduce virus programs to systems, attempts to cause system outages or attempts to discover passwords. All uses must be consistent with guiding ethical statements, applicable acceptable use policies and community standards. University resources must not be used in any way which violates applicable laws, regulations or University policies. Use of University resources or affiliated networks which precludes or hampers the use of those resources by others is not acceptable.
• Unsolicited advertising is not acceptable. Advertising is permitted on some mailing lists if the sponsored group explicitly sanctions advertising. Announcements of new products or services are acceptable providing they do not include solicitation for sale.
• Use of University resources for profit-making activities is not acceptable.
• Use of University resources for recreational games is not acceptable when such use restricts access of those resources by other users.

Violations

Violations of these procedures should be reported to the chief information officer. Division of Information Technology staff will notify the responsible user, will take appropriate remedial actions and will inform appropriate University departments and/or affiliated networks of their actions. Departmental administrators responsible for managing University information technology resources may temporarily disable user accounts or workstations connected to the network if violations of this policy are suspected. Division of Information Technology staff should be informed of all such actions. Every effort will be made to inform affected users prior to disconnection, and every effort will be made to reestablish the connection as soon as it is deemed mutually acceptable. Any employee or student found to violate University standards of conduct will be subject to disciplinary action under University policy. Any suspected violation of state and federal information technology laws will be reported to the appropriate legal authority for investigation.

August 1996

EDUCOM Code

Respect for intellectual labor and creativity is vital to academic discourse and enterprise. This principle applies to works of all authors and publishers in all media. It encompasses respect for the right to acknowledgment, right to privacy and right to determine the form, manner and terms of publication and distribution. Because electronic information is volatile and easily reproduced, respect for the work and personal expression of others is especially critical in computer environments. Violations of authorial integrity, including plagiarism, invasion of privacy, unauthorized access and trade secret and copyright violations, may be grounds for sanctions against members of the academic community.
Using Software: A Guide to the Ethical and Legal Use of Software for Members of the Academic Community
issued by EDUCOM and ADAPSO

Here are some relevant facts:

1. Unauthorized copying of software is illegal. Copyright law protects software authors and publishers, just as patent law protects inventors.
2. Unauthorized copying of software by individuals can harm the entire academic community. If unauthorized copying proliferates on a campus, the institution may incur a legal liability. Also, the institution may find it more difficult to negotiate agreements that would make software more widely and less expensively available to members of the academic community.
3. Unauthorized copying of software can deprive developers of a fair return for their work, increase prices, reduce the level of future support and enhancement and inhibit the development of new software products.

Respect for the intellectual work and property of others has traditionally been essential to the mission of colleges and universities. As members of the academic community, we value the free exchange of ideas. Just as we do not tolerate plagiarism, we do not condone the unauthorized copying of software, including programs, applications, databases and code. Therefore, we offer the following statement of principle about intellectual property and the legal and ethical use of software. This "code"-intended for adaptation and use by individual colleges and universities - was developed by the EDUCOM Software Initiative.

Classification of Software

In terms of copyright, there are four broad classifications of software:

- Commercial
- Shareware
- Freeware
- Public Domain

The restrictions and limitations regarding each classification are different.

Commercial

Commercial software represents the majority of software purchased from software publishers, commercial computer stores, etc. When you buy software, you are actually acquiring a license to use it, not own it. You acquire the license from the company that owns the copyright. The conditions and restrictions of the license agreement vary from program to program and should be read carefully. In general, commercial software licenses stipulate that:

- the software is covered by copyright,
- although one archival copy of the software can be made, the backup copy cannot be used except when the original package fails or is destroyed,
- modifications to the software are not allowed,
- decompiling (i.e., reverse engineering) of the program code is not allowed without the permission of the copyright holder.

Shareware

Shareware software is covered by copyright, as well. When you acquire software under a shareware arrangement, you are actually acquiring a license to use it, not own it. You acquire the license from the individual or company that owns the copyright. The conditions and restrictions of the license agreement vary from program to program and should be read carefully. The copyright holders for shareware allow purchasers to make and distribute copies of the software, but demand that if, after testing the software, you adopt it for use, you must pay for it. In general, shareware software licenses stipulate that:
• the software is covered by copyright,
• although one archival copy of the software can be made, the backup copy cannot be used except when the original package fails or is destroyed,
• modifications to the software are not allowed,
• decompiling (i.e., reverse engineering) of the program code is not allowed without the permission of the copyright holder,
• development of new works built upon the package (derivative works) is not allowed without the permission of the copyright holder.

Selling software as shareware is a marketing decision; it does not change the legal requirements with respect to copyright. That means that you can make a single archival copy, but you are obliged to pay for all copies adopted for use.

Freeware
Freeware also is covered by copyright and subject to the conditions defined by the holder of the copyright. The conditions for freeware are in direct opposition to normal copyright restrictions. In general, freeware software licenses stipulate that:
• the software is covered by copyright,
• copies of the software can be made for both archival and distribution purposes but that distribution cannot be for profit,
• modifications to the software is allowed and encouraged,
• decompiling (i.e, reverse engineering) of the program code is allowed without the explicit permission of the copyright holder,
• development of new works built upon the package (derivative works) is allowed and encouraged with the condition that derivative works must also be designated as freeware. That means that you cannot take freeware, modify or extend it, and then sell it as commercial or shareware software.

Public Domain
Public domain software comes into being when the original copyright holder explicitly relinquishes all rights to the software. Since under current copyright law, all intellectual works (including software) are protected as soon as they are committed to a medium, for something to be public domain it must be clearly marked as such. Before March 1, 1989, it was assumed that intellectual works were not covered by copyright unless the copyright symbol and declaration appeared on the work. With the United States adherence to the Berne Convention this presumption has been reversed. Now all works assume copyright protection unless the public domain notification is stated. This means that for public domain software:
• copyright rights have been relinquished,
• software copies can be made for both archival and distribution purposes with no restrictions as to distribution,
• modifications to the software are allowed,
• decompiling (i.e., reverse engineering) of the program code is allowed,
• development of new works built upon the package (derivative works) is allowed without the distribution or use of the derivative work.

Questions You May Have about Using Software

A. What do I need to know about software and the U.S. Copyright Act?
Unless it has been placed in the public domain, software is protected by copyright law. The owner of a copyright holds exclusive right to the reproduction and distribution of his or her work. Therefore, it is illegal to duplicate or distribute software or its documentation without the permission of the copyright owner. If you have purchased your copy, however, you may make a back-up for your own use in case the original is destroyed or fails to work.

B. Can I loan software I have purchased myself?
If your software came with a clearly visible license agreement, or if you signed a registration card, read the license carefully before you use the software. Some licenses may restrict use to a specific computer.
Copyright law does not permit you to run your software on two or more computers simultaneously unless the license agreement specifically allows it. It may, however, be legal to loan your software to a friend temporarily as long as you do not keep a copy.

C. If software is not copy-protected, do I have the right to copy it?
Lack of copy-protection does not constitute permission to copy software in order to share or sell it. "Non-copy-protected" software enables you to protect your investment by making a back-up copy. In offering non-copy-protected software to you, the developer or publisher has demonstrated significant trust in your integrity.

D. May I copy software that is available through facilities on my campus, so that I can use it more conveniently in my own room?
Software acquired by colleges and universities is usually licensed. The licenses restrict how and where the software may be legally used by members of the community. This applies to software installed on hard disks in microcomputer clusters, software distributed on disks by a campus lending library and software available on a campus mainframe or network. Some institutional licenses permit copying for certain purposes. Consult your campus authorities if you are unsure about the use of a particular software product.

E. Isn't it legally "fair use" to copy software if the purpose in sharing is purely educational?
No. It is illegal for a faculty member or student to copy software for distribution among the members of a class, without permission of the author or publisher.

Alternatives to Explore

Software can be expensive. You may think that you cannot afford to purchase certain programs that you need. But there are legal alternatives to unauthorized copying.

Site Licensed and Bulk-Purchased Software
Your institution may have negotiated agreements that make software available either to use or to purchase at special prices. Consult your campus computing office for information. Software available through institutional site licenses or bulk purchases is subject to copyright and license restrictions, and you may not make or distribute copies without authorization.

Shareware
Shareware, or "user-supported" software, is copyrighted software that the developer encourages you to copy and distribute to others. This permission is explicitly stated in the documentation or displayed on the computer screen. The developer of shareware generally asks for a small donation or registration fee if you like the software and plan to use it. By registering, you may receive further documentation, updates and enhancements. You are also supporting future software development.

Public Domain Software
Sometimes authors dedicate their software to the public domain, which means that the software is not subject to any copyright restrictions. It can be copied and shared freely. Software without copyright notice is often, but not necessarily, in the public domain. Before you copy or distribute software that is not explicitly in the public domain, check with your campus computing office.

A Final Note

Restrictions on the use of software are far from uniform. You should check carefully each piece of software and the accompanying documentation yourself. In general, you do not have the right to:

1. Receive and use unauthorized copies of software, or
2. Make unauthorized copies of software for others.
MichNet Policies

MichNet Acceptable Use Policy

12 January 2001

Purpose

The purpose of MichNet is given in Merit Network, Inc.’s bylaws which state that “in pursuance of its mission in instruction, research and service it is the role of Merit as the operator of a high-speed digital communications network to contribute broadly to educational and economic development in Michigan.”

Acceptable Use

This statement represents a guide to the acceptable use of MichNet. Any member or affiliate organization or individual connected to MichNet in order to use the Michigan statewide network, or any other networks which are used as a result of their MichNet connection, must comply with this policy and the stated purposes and acceptable use policies of any other networks or hosts used. Each member and affiliate organization is responsible for the activity of its users and for ensuring that its users are familiar with this policy or an equivalent policy. In addition each member and affiliate is encouraged to maintain and enforce its own acceptable use policies. The provisions of this policy govern all use of MichNet, including any unsupervised anonymous network access offered by members or affiliates. The following guidelines will be applied to determine whether or not a particular use of MichNet is appropriate:

- Users must respect the privacy of others; for example, users shall not intentionally seek information on, obtain copies of, or modify files, other data or passwords belonging to others, or represent themselves as another user unless explicitly authorized to do so by that user.
- Users must respect the legal protection provided by copyright and license to programs and data.
- Users must respect the integrity of computing and network systems; for example, users shall not intentionally develop or use programs that harass other users or infiltrate a computer, computing system or network and/or damage or alter the software components of a computer, computing system or network.
- Use should be consistent with guiding ethical statements and accepted community standards. Malicious use is not acceptable.
- MichNet may not be used in ways that violate applicable laws or regulations.
- Use of MichNet and any attached network in a manner that precludes or significantly hampers its use by others is not allowed.
- Connections which create routing patterns that are inconsistent with the effective and shared use of the network may not be established.
- Unsolicited advertising is not acceptable. Advertising is permitted on some web sites, mailing lists, newsgroups and similar environments if advertising is explicitly allowed in that environment.
- Repeated, unsolicited and/or unwanted communication of an intrusive nature is not acceptable. For example, continuing to send e-mail messages to an individual after being asked to stop is not acceptable.

The intent of this policy is to make clear certain uses which are and are not appropriate, not to exhaustively enumerate all such possible uses. Using the guidelines given above, Merit may at any time make determinations that particular uses are or are not appropriate. Merit will not monitor or judge the content of information transmitted over MichNet, but will investigate complaints of possible inappropriate use. In the course of investigating complaints, Merit staff will safeguard the privacy of all parties and will themselves follow the guidelines given in this policy. Merit will only
release sensitive, confidential or personally identifiable information to third parties when required by law or when in Merit’s judgment release is required to prevent serious injury or harm that could result from violation of this policy.

**Remedial Action**

When Merit learns of possible inappropriate use, Merit staff will notify the member or affiliate responsible, which must take immediate remedial action and inform Merit of its action. In an emergency, in order to prevent further possible inappropriate activity, Merit may temporarily disconnect a member or affiliate from MichNet. If this is deemed necessary by Merit staff, every effort will be made to inform the member or affiliate prior to disconnection, and every effort will be made to re-establish the connection as soon as it is mutually deemed safe. Any determination of inappropriate use serious enough to require disconnection shall be promptly communicated to every member of the Merit Board of Directors through an established means of publication.
Administrative Officers

Board of Regents

Chair: Thomas W. Sidlik
Vice Chair: Roy E. Wilbanks
Secretary: Jackie Jurtz
Floyd Clack
Francine Parker
Gary D. Hawks
Mohamed Okdie
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Philip A. Incarnati

Office of the President and Strategic Operations Council

President: Susan W. Martin
Provost and Executive Vice President for Academic Affairs: Donald Loppnow
Vice President for Advancement and Executive Director of EMU Foundation:
Chief Financial Officer, Business and Finance: John Lumm
Vice President for Student Affairs and Enrollment Management (Interim): Bernice Lindke
Associate Vice President of University Marketing and Communication: Ted Coutilish
Executive Director of Intercollegiate Athletics: Derrick Gragg
General Counsel/University Attorney: Kenneth A. McKanders
Chief Information Officer (Interim): Connie Schaffer
Chief Government Relations Officer: Freman Hendrix

Intercollegiate Athletics

Executive Director: Derrick Gragg

Legal Affairs

University Attorney: Kenneth A. McKanders

University Marketing and Communications

Associate Vice President of University Marketing and Communication: Ted Coutilish

Division of Academic Affairs

Office of the Provost

Provost and Vice President for Academic Affairs: Donald Loppnow
Executive Associate to the Provost for Development: Dennis Beagen
Associate Provost and Associate Vice President for Research (Interim): Robert Neely
Associate Vice President for Academic Programming: Vacant
Dean of Graduate Studies (Interim): Deb DeLaski-Smith

**Division of Advancement**

Vice President for Advancement and Executive Director of the EMU Foundation:
Director of Alumni Relations: Vicki Reaume

**Division of Business and Finance**

Chief Financial Officer, Business and Finance: John Lumm
Associate Vice President, Facilities: John Donegan
Assistant Vice President and Controller:

**Human Resources**

Associate Vice President of Human Resources (Interim): Karen Simpkins

**Division of Student Affairs and Enrollment Management**

Vice President (Interim): Bernice A. Lindke
Associate Vice President: Vacant
Assistant Vice President for Student Affairs: Glenna Frank Miller
Assistant Vice President for Retention and Student Success: Lynette Findley

**Academic Advising Center**

Director: Vacant

**Admissions**

Director: Kathy Orscheln

**Campus Life**

Director: Melissa Ginotti

**Career Services Center**

Director (Interim): Sarah Kersey Otto

**Dining Services**
Director: Larry Gates

**Diversity and Community Involvement**

Director: Kay Woodiel

**EMU Student Center**

Director: Carlos Costa

**Financial Aid**

Director: Cynthia Van Pelt

**Financial Services, Student Affairs**

Director: Brian Kulpa

**Holman Learning Center**

Director: Mark Jackson

**Housing**

Director: Rebecca J. Figura

**International Students, Office of**

Director: Esther Gunel

**Ombudsman**

Gregory A. Peoples

**Records and Registration**

Registrar: Christina Shell

**Recreation/Intramurals**

Director: Robert W. England

**Service EMU**

Director: Gretchen Ward
Student Judicial Services

Director: Jesús Hernández

Student Media

Director: Kevin Devine

Students with Disabilities Office

Director: Vacant

University Health Services

Executive Director: Ellen Gold

- Children’s Institute, Director: Chris Aris
- Counseling Services, Director: Lisa Lauterbach
- Health Education and Wellness Programs, Director: Vacant
- Medical Services, Chief of Medical Staff: Kimberly Keller, M.D.
Faculty

Accounting and Finance

Brickner, Daniel R. (2000) Associate Professor, Ph.D.; Kent State University
Bunsis, Howard (1998) Professor; Ph.D.; University of Chicago
Burilovich, Linda (1991) Professor; Ph.D.; University of Michigan
Diallo, Alahassane (1985) Professor; Ph.D.; Ohio State University
Etter, Edwin (2002) Assistant Professor; Ph.D.; Ohio State University
Garg, Ramesh C. (1978) Professor; D.B.A.; Kent State University
Hanson, Robert C. (1996) Professor; Ph.D.; University of Utah
Hwang, Angela (2002) Associate Professor; Ph.D.; University of Houston
Kattelus, Susan C. (1990) Professor and Department Head; Ph.D.; Michigan State University
Keener, Mary (2005) Assistant Professor; Ph.D. pending; Kent State University
Khan, Zafar U. (1989) Professor; Ph.D.; Louisiana State University
Kiss, Robert M. (1990) Associate Professor; Ph.D.; Kent State University
Kramer, Morrey (1984) Associate Professor; Ph.D.; University of Michigan
LaGore, William (2006) Assistant Professor; Ph.D. pending; Florida State University
Lewis, Philip (2005) Assistant Professor; Ph.D.; University of Cincinnati
Mahoney, Lois (2004) Assistant Professor; Ph.D.; University of Central Florida
McCombs, Gary B. (1982) Associate Professor; M.B.A.; University of Michigan
Moeller, Susan (1990) Professor; Ph.D.; Michigan State University
Okopny, Robert D. (1988) Professor; Ph.D.; Texas A&M University
Rahman, Mahmud (1991) Professor; Ph.D.; University of Texas-Arlington
Ross, Barbara W. (2003) Professor; Ph.D.; Michigan State University
Scazzero, Joseph (2001) Professor; Ph.D.; Pennsylvania State University
Snyir, Andrew (1984) Professor; Ph.D.; Purdue University
Tessema, Asrat (1985) Professor; Ph.D.; University of Iowa
Woodland, Linda (1982) Professor; Ph.D.; Purdue University

African American Studies

Perry, Robert L. (1997) Professor; Ph.D.; Wayne State University
Peters, Melvin T. (1992) Associate Professor; Ph.D.; Michigan State University
Semmes, Clovis E. (1988) Professor; Ph.D.; Northwestern University
Woods, Ronald C (1978) Professor; J.D.; University of Michigan

Art

Atzmon, Leslie (1999) Assistant Professor; M.F.A.; Eastern Michigan University
Avedon, Barry (1966) Professor; M.F.A.; Rochester Institute of Technology
Blakely, Colin (2001) Assistant Professor; M.F.A.; University of New Mexico
Bocklage, Christopher (1986) Professor; M.F.A.; Southern Illinois University
Buffington, Melanie (2004) Assistant Professor, Ph.D., Ohio State University
Davis, Margret (1994) Associate Professor; M.F.A.; University of Michigan
DeHoog, John (2000) Assistant Professor; M.F.A.; Rhode Island School of Design
Fairfield, Richard (1963) Professor; M.F.A.; University of Illinois
Hyndman, Christopher (2001) Assistant Professor; M.F.A.; Ohio University
Locke, Jennifer (2005) Assistant Professor, M.F.A.; Wichita State University
Liu, Beili (2005) Assistant Professor, M.F.A.; University of Michigan
Maniotes, Andrew (2002) Assistant Professor; M.F.A.; Minneapolis College of Art and Design
Molloy, Ryan (2004) Assistant Professor, M.F.A., University of Texas
Myers, Julia (1990) Professor; Ph.D.; University of Maryland
Nelson, Brian (2000) Assistant Professor; M.F.A.; Michigan State University
Otto, Gretchen (1987) Professor; Ph.D.; Pennsylvania State University
Pancioli, Diana (1991) Associate Professor; M.F.A.; Alfred University
Pawloski, Carole (1991) Associate Professor; M.A.; Michigan State University
Reedy, Michael (2005) Assistant Professor, M.F.A.; Northern Illinois University
Rubenfeld, Richard (1986) Professor; Ph.D.; Ohio State University
Ruggiero, Maria F. (2001) Assistant Professor; M.F.A.; Kent State University
Sacksteder, Amy. (2006) Assistant Professor; M.F.A.; University of Northern Illinois
Schwartz, Ellen (1977) Professor; Ph.D.; Institute of Fine Arts-New York
Suchan, Thomas (2003) Assistant Professor, Ph.D., Ohio State University
Tammany, David D. (1966) Professor; M.F.A.; Tulane University;
Venner, Thomas (1998) Professor and Department Head; M.F.A.; Eastern Michigan University
Williams, Patricia J. (1976) Professor; M.F.A. Indiana University
Yang, Guey-Meei (2003) Assistant Professor, Ph.D., Ohio State University

Biology

Angell, Michael (1996) Associate Professor; Ph.D.; Pennsylvania State University
Bach, Catherine E. (1991) Professor; Ph.D.; University of Michigan
Bednekoff, Peter (1997) Professor; Ph.D.; Oxford University
Booth, Howard D. (1967) Professor; Ph.D.; Michigan State University
Clemans, Daniel (2000) Associate Professor; Ph.D.; University of Minnesota
Eisenbach, Jamin (1990) Professor; Ph.D.; University of California-Berkley
Francoeur, Steve (2002) Associate Professor, Ph.D.; University of Alabama
Greco, Tamara (1996) Associate Professor; Ph.D.; University of Wisconsin-Madison
Hannan, Gary L. (1982) Professor; Ph.D.; University of California-Berkeley
Judd, Kristin (2007) Assistant Professor; Ph.D.; University of Michigan
Kass, David (1996) Professor; Ph.D.; University of South Carolina
Kurta, Allen (1988) Professor; Ph.D.; Boston University
Laporte, Marianne M. (2001) Associate Professor; Ph.D. University of Wisconsin
Liepman, Aaron (2006) Assistant Professor; Ph.D.; University of Michigan
Liggit, Peggy (1998) Associate Professor; Ph.D.; University of Nevada-Reno
Neely, Robert K. (1984) Professor and Associate Vice President, Academic Affairs; Ph.D.; Iowa State University
Reinhardt, Ulrich (2000) Associate Professor; Ph.D.; University of British Columbia
Shillington, Cara (2001) Associate Professor; Ph.D.; Oklahoma State University
VandenBosch, James L. (1987) Professor; Ph.D.; University of Michigan
Walker, Glenn K. (1976) Professor; Ph.D.; University of Maryland
Winning, Robert S. (1995) Professor; Ph.D. University of Waterloo

Bruce T. Halle Library

Badics, Joseph (1993) Instructor; M.L.S.; University of Michigan
Baier, Randal (2000) Associate Professor; M.I.L.S.; University of Michigan
Best, Margaret (1977) Associate Professor; M.A.L.S.; University of Michigan
Bucciarelli, Elizabeth (1993) Assistant Professor; M.A.L.S.; Wayne State University
Bullard, Rita J. (1986) Professor; M.A.L.S.; University of Michigan
Cheng, Rachel J. (2002) Professor and University Librarian; M.L.S.; University of Michigan
deVries, Susann (2004) Instructor; M.L.I.S.; Wayne State University
Fabian, Sarah (2002) Instructor; M.A.; Wayne State University
Fowler, Rhonda (1989) Assistant Professor; M.I.L.S.; University of Michigan
Glover, Barbara (1991) Associate Professor; A.M.L.S.; University of Michigan
Gray, Suzanne (2006) Assistant Professor; M.S.L.S.; University of Michigan
Hansen, Joanne J. (1965) Associate Professor; M.S.L.S.; Case Western Reserve University
Kelly, Robert (2006) Assistant Professor; M.S.; Eastern Michigan University
Klopfen, Lisa (2000) Associate Professor; M.I.S.; University of Michigan
Lucas, Raymond (1985) Assistant Professor; M.A.; University of Michigan
Memmot, Sara (2007) Instructor; M.S.; University of Illinois
Nims, Julia (2000) Associate Professor; M.L.S.; Indiana University
Owen, Eric (2000) Assistant Professor; M.S.I.; University of Michigan
Pittsley, Katherine (2004) Assistant Professor; M.I.L.S.; University of Michigan
Stanger, Keith J. (1974) Assistant Professor; M.L.S.; University of Illinois
Stevens, Robert (2005) Assistant Professor; M.A.; Wayne State University
Storm, Paula (2004) Assistant Professor; M.I.S.L.; University of Michigan
Tammany, Rosina (1988) Professor; A.M.L.S.; University of Michigan
Wrosch, Jacqueline (2005) Assistant Professor; M.A. University of Michigan

Chemistry

Armitage, Ruth Ann (2001) Associate Professor; Ph.D.; Texas A&M
Brabec, Michael J. (1985) Professor; Ph.D.; University of Wyoming
Brewer, Timothy R. (1998) Associate Professor; Ph.D.; Stanford University
Contis, Ellene T. (1971) Professor; Ph.D.; University of Michigan
Emal, Cory (2005) Assistant Professor; Ph.D.; University of Michigan
Flanagan Johnson, Amy (2006) Assistant Professor; Ph.D.; Purdue University
Friebe, Timothy L. (1990) Associate Professor; Ph.D.; Northwestern University
Guy-Evans, Hedeel (2005) Associate Professor; Ph.D.; Wayne State University
Heyl-Clegg, Deborah L. (1992) Professor; Ph.D.; University of Michigan
Holmes-Smith, Heather L. (1998) Associate Professor; Ph.D.; University of Michigan
Howard, Arthur S. (1990) Professor; Ph.D.; Cambridge University
Kennedy, Vance O. (1996) Professor; Ph.D.; Case Western Reserve University
Kolopajlo, Lawrence H. (2002) Assistant Professor; Ph.D.; Western Michigan University
Lindsay, Harriet (2002) Assistant Professor; Ph.D., Ed.D.; University of Arkansas
Millett, Maria C. (1989) Professor; Ph.D.; University of Wisconsin
Nord, Ross S. (1986) Professor; Ph.D.; Iowa State University
Pernecky, Steven J. (1995) Associate Professor; Ph.D.; Northwestern University
Rengan, Krishnaswamy (1970) Professor; Ph.D.; University of Michigan
Snyder, Donald, M. (1993) Professor; Ph.D.; Purdue University
Tornquist, Wade J. (1986) Professor and Associate Dean of College of Arts and Sciences; Ph.D.; University of Minnesota
Vites, Jose C. (1991) Associate Professor; Ph.D.; University of Notre Dame
Wilmes, Gregg M. (2006) Assistant Professor; Ph.D.; Stanford University

Communication, Media and Theatre Arts

Aghssa, Pirooz (1995) Associate Professor; Ph.D.; Texas Tech University
Aldridge, Henry B. (1972) Professor; Ph.D.; University of Michigan
Alexander, Jessica (2000) Associate Professor; M.F.A.; Eastern Michigan University
Beagen, Dennis M. (1967) Professor and Department Head; M.A.; University of Michigan
Booth, Susan Badger (2006) Assistant Professor; M.F.A.; Columbia University
Bridges, Wallace (1992) Professor; M.F.A.; Western Illinois University
Cooper, John. G. (1993) Professor; Ph.D.; Bowling Green State University
Damron, Keith (2005) Assistant Professor; M.A.; Eastern Michigan University
Evans, Gary L. (1970) Professor; Ph.D.; University of Michigan
Fields, Doris (1997) Associate Professor; Ph.D.; Wayne State University
Foreman, Chris (1994) Professor; Ph.D.; University of Kentucky
Hammill, Geoffrey D. (1987) Professor; Ph.D.; Bowling Green State University
Heck-Seibert, Theresa (1992) Professor; M.F.A.; University of Wisconsin
Kindred, Jeanette (2006) Assistant Professor; Ph.D.; Wayne State University
McCracken, Sally R. (1968) Professor; Ph.D.; Wayne State University
Patrick, Dennis P. (1996) Professor; Ph.D.; University of Texas
Quiel, Ramond (1999) Instructor; M.A.; Eastern Michigan University
Rich, Anita (1996) Professor; Ph.D.; Southern Illinois University
Robinson, James A. (1988) Professor; Ph.D.; University of Michigan
Schuessler, Melanie (2005) Assistant Professor; M.F.A.; University of Wisconsin
Shen, Tsai-Shan (2006) Assistant Professor; Ph.D; Arizona State University
Simmons, Phil (2006) Assistant Professor; M.F.A; University of Georgia
Stacey, Kathleen (1992) Professor; Ph.D.; Wayne State University
Steffens, Kenneth W. (1972) Professor; M.A.; University of Cincinnati
Stille, Lee (1998) Associate Professor; Ph.D.; University of Minnesota
Sturgis Hill, Judy (1992) Assistant Professor; M.A.; Eastern Michigan University
Tanner, Christine (2002) Assistant Professor; Ph.D.; Brigham Young University
Tew, Michael A. (1989) Professor; Ph.D.; Wayne State University
Watson, Mary Ann (1990) Professor; Ph.D.; University of Michigan
Zimmer, Patricia Moore (1980) Professor; M.F.A.; Florida State University

**Computer Information Systems**

Ahmad, S. Imtiaz (1981) Professor; Ph.D.; University of Ottawa
Chou, David C. (2001) Professor; Ph.D.; Georgia State University
Chung, Sock (2002) Assistant Professor; Ph.D.; Auburn University
Esteva, Juan C. (1990) Associate Professor; Ph.D.; Wayne State University
Farah, Badie N. (1982) Professor; Ph.D.; Ohio State University
Gibson, Faison (2006) Assistant Professor; Ph.D.; Carnegie Mellon University
Lee, Huei (2001) Associate Professor; Ph.D.; Georgia State University
Mrdalj, Stevan (1987) Professor; Ph.D.; University of Belgrade, Serbia and Montenegro
Saxon, Charles S. (1976) Professor; Ph.D.; University of Michigan
Schoenherr, Tobias (2005) Assistant Professor; Ph.D.; Indiana University
Sokkar, Fathi F. (1971) Professor; Ph.D.; University of Illinois
Tang, Hung-Lian (2000) Professor; Ph.D.; University of Nebraska-Lincoln
Tummala, Rao V.M. (1981) Professor; Ph.D.; Michigan State University
Wu, Nesa L. J. (1974) Professor; Ph.D.; Purdue University

**Computer Science**

Bahorski, Zenia (1990) Instructor; M.S.; Eastern Michigan University
Chaudhuri, Ranjan (1984) Professor; Ph.D.; University of South Florida
Evett, Matthew (1999) Associate Professor; Ph.D.; University of Maryland
Haynes, Susan M. (1992) Associate Professor; Ph.D.; University of Michigan
Höft, Hartmut F.W. (1970) Professor; Ph.D.; University of Houston
Economics

Crary, David B. (1982) Associate Professor; Ph.D.; University of Maryland
Dewan, Abdullah (1984) Professor; Ph.D.; University of Kentucky
Edgren, John (1979) Professor; Ph.D.; University of Michigan
Erenburg, Sharon J. (1986) Professor; Ph.D.; University of Illinois
Hanna, Raouf S. (1973) Professor and Department Head; Ph.D.; Indiana University
Hayworth, Steven C. (1977) Associate Professor; Ph.D.; Massachusetts Institute of Technology
Moreland, Kemper (1980) Professor; Ph.D.; University of Wisconsin
Pearson, Donald W. (1970) Professor; Ph.D.; University of Texas
Rice, Jennifer (2004) Assistant Professor; Ph.D.; Indiana University
Thornton, James (1991) Professor; Ph.D.; University of Oregon
Vogt, Michael G. (1978) Professor; Ph.D.; University of Wisconsin
Woodland, Bill M. (1981) Professor; Ph.D.; Purdue University

Engineering Technology

Baghdachi, Jamil (1997) Professor; Ph.D.; University of Mississippi
Bari, Mohamad J. (Jamal) (2000) Associate Professor; Ph.D.; University of Arkansas
Benedict, Dozie Ilozor (2006); Associate Professor; Ph.D.; University of Technology, Sydney
Brake, Mary (2004) Professor; Ph.D.; Michigan State University
Chapman, Robert E. (1992) Assistant Professor; Ph.D.; Yale University
DeLaski-Smith, Deborah (1978) Professor and Interim Dean, Graduate Studies; Ph.D.; Michigan State University
Fields, Daniel J. (1986) Professor and Department Head; Ph.D.; Michigan State University
Greenfield, M.C. (2005) Assistant Professor; MS; Southern Illinois University
Jones, Louise (1990) Professor; Ph.D.; University of Michigan
Kanagy, Max E. (1986) Professor; Ph.D.; Ohio State University
Lahidji, Bob (Behrooz) (1994) Professor and Director; Ph.D.; University of Missouri-Columbia
Lin, Su-Chen Jonathon (1988) Professor; Ph.D.; Iowa State University
Lokensgard, Erik (1986) Professor; Ph.D.; Iowa State University
Love, Dian (2002) Assistant Professor; M.S.; University of Michigan
Lu, Jiang (2003) Assistant Professor; Ph.D.; Indiana University
Lyons, Harvey (1998) Associate Professor; Ph.D.; Ohio State University
Mannari, Vijaykumar(2002) Assistant Professor; Ph.D.; Sadar Patal University
Mitchell, James G. (Greg) (2000) Associate Professor; Ph.D.; Wayne State University
Moylan, William (2001) Instructor; Ph.D.; Capella University
Rufe, Phillip (1990) Instructor; M.S.; Eastern Michigan University
Shay, Tony F. (1990) Professor; Ph.D.; Iowa State University
Sipos, Maria (2005) Assistant Professor; M.A.; Eastern Michigan University
Soyster, Thomas G. (1982) Associate Professor; Ed.D.; Temple University
Speelman, Pamela (1990) Professor; Ed.D.; Wayne State University
Stein, James (1990) Associate Professor; Ph.D.; Wayne State University
Texter, John (2002) Professor; Ph.D.; Lehigh University
Tillman, Tracy S. (1990) Associate Professor; Ph.D.; Purdue University
Tucker, Walter W. (1978) Professor; Ph.D.; University of Michigan
Wang, Jianhua (2002) Assistant Professor; Ph.D.; University of Iowa

English Language and Literature

Adler-Kassner, Linda (2000) Associate Professor; Ph.D.; University of Minnesota
Allen, Nancy (1991) Professor; Ph.D.; Purdue University
Aristar, Anthony (2006) Professor; Ph.D.; University of Texas at Austin
Aristar-Dry, Helen (1991) Professor; Ph.D.; University of Texas at Austin
Arrington, Phillip (1984) Professor; Ph.D.; University of Louisville
Baker, William Douglas (2001) Associate Professor; Ph.D.; University of California at Santa Barbara
Barr, Mark (2006) Assistant Professor; Ph.D.; Vanderbilt University
Benninghoff, Steven (2002) Assistant Professor; Ph.D.; Purdue University
Bruss, Paul S. (1969) Professor; Ph.D.; University of Rochester
Burlingame, Lori (1997) Associate Professor; Ph.D.; University of Rochester
Cassidy, Cheryl (1990) Professor; Ph.D.; University of Michigan
Coykendall, Abigail (2002) Assistant Professor; Ph.D.; State University of New York at Buffalo
Csicsila, Joseph (2000) Associate Professor; Ph.D.; University of Nevada at Las Vegas
Cunningham, Charles (2004) Assistant Professor; Ph.D.; Carnegie-Mellon University
Daeumer, Elisabeth (1992) Professor; Ph.D.; Indiana University
Dionne, Craig (1995) Professor; Ph.D.; Carnegie-Mellon University
Duncan, Jeffrey L. (1971) Professor; Ph.D.; University of Virginia
Eiss, Harry E. (1987) Professor; Ph.D.; University of North Dakota
Fleischer, Catherine (1990) Professor; Ph.D.; University of Michigan
Garrett, Edward (2003) Assistant Professor; Ph.D.; UCLA
Geherin, David J. (1969) Professor; Ph.D.; Purdue University
George, Laura (1994) Professor and Department Head; Ph.D.; Ohio State University
Goodman, Beverly (1996) Associate Professor; Ph.D.; Cornell University
Grondona, Veronica (2000) Associate Professor; Ph.D.; University of Pittsburgh
Hendrix, Lolita (1994) Professor; M.A.; Eastern Michigan University
Hume, Christine (2001) Associate Professor; Ph.D.; University of Denver
Kaston, Andrea (2000) Associate Professor; Ph.D.; University of Wisconsin
Kauffman, Janet (1988) Professor; Ph.D.; University of Chicago
Knapp, James (1998) Associate Professor; Ph.D.; University of Rochester
Kovacevic, Natasa (2006) Assistant Professor; Ph.D.; University of Florida
Krause, Steven (1998) Associate Professor; Ph.D.; Bowling Green University
Larson, Russell R. (1970) Professor; Ph.D.; University of Michigan
Lucy, Robin (2002) Assistant Professor; Ph.D.; McMaster University
Miller, Bernard A. (1987) Professor; Ph.D.; Purdue University
Morris, Tracie (2005) Assistant Professor; Ph.D.; New York University
Most, Sheila (1971) Professor; Ph.D.; Northwestern University
Motschall, Melissa (1995) Professor; Ph.D.; Wayne State University
Neff, Heather (1993) Professor; Ph.D.; University of Zurich
Neufeld, Christine (2003) Assistant Professor; Ph.D.; McGill University
Norton, Alexandra M. (1989) Professor; Ph.D.; University of California-Berkeley
Parker, Jeff (2004) Assistant Professor; M.F.A.; Syracuse University
Pinson, James (1990) Professor; Ph.D.; University of Missouri-Columbia
Schlagheck, Carol (1995) Professor; Ph.D.; Bowling Green University
Seely, Daniel T. (1988) Professor; Ph.D.; University of Massachusetts at Amherst
Shichtman, Martin B. (1984) Professor; Ph.D.; University of Iowa
Simmons, Charles (1997) Professor; J.D.; Georgetown
Sipe, Rebecca (1997) Associate Professor; Ed.D.; Boston University
Tracey, Christine (2005) Assistant Professor; Ph.D.; Rensselaer Polytechnic Institute
Tucker, William (1993) Professor; Ph.D.; Boston College
Wannamaker, Annette (2005) Assistant Professor; Ph.D.; Bowling Green University
Wojcik-Andrews, Ian (1990) Professor; Ph.D.; University of Connecticut

**Foreign Language and Bilingual Studies**

Aebersold, Jo Ann (1984) Professor; Ph.D.; University of Michigan
Cere, Ronald C. (1985) Professor; Ph.D.; New York University
Cline, William J. (1970) Professor; Ph.D.; State University of New York
Cullen, Thomas J. (1994) Professor; Ph.D.; Klagenfurt University
Damiano, Carla A. (2001) Assistant Professor; Ph.D.; University of Oregon
Day, Catherine E. (1982) Professor; Ph.D.; University of Illinois
Dugan, Sanford J. (1974) Professor; Ph.D.; Washington University, Missouri
Holoka, James P. (1974) Professor; Ph.D.; University of Michigan
Illingworth-Rico, Alfonso (1994) Associate Professor; Ph.D.; University of Arizona
Kirby, Steven D. (1991) Professor; Ph.D.; University of Kentucky
Kubota, Sayuri (2005) Assistant Professor; Ph.D.; Purdue University
Mihaly, Deanna (2005) Assistant Professor; Ph.D.; Tulane University
Morgan, Elisabeth (1991) Professor and Department Head; Ph.D.; University of New York at Buffalo
Nerenz, Anne G. (1986) Professor; Ph.D.; University of Wisconsin
Oketani-Lobbezoo, Hitomi (1996) Associate Professor; Ph.D.; University of Toronto
Palmer, Benjamin W. (1970) Professor; Ph.D.; Northwestern University
Peden, Genevieve (1992) Professor; Ph.D.; Michigan State University
Popko, Alexander Jeffrey (2005) Assistant Professor; Ph.D.; University of Northern Arizona
Tabuse, Motoko (1992) Professor; Ph.D.; Ohio State University
Vosteen, Thomas R. (1991) Professor; Ph.D.; University of Iowa
Voght, Geoffrey M. (1971) Professor; Ph.D.; University of Michigan
Wang, Wendy (1999) Associate Professor; Ph.D.; University of Toronto
Zinggeler, Margrit (1999) Associate Professor; Ph.D.; University of Minnesota

**Geography and Geology**

Bradley, Michael D. (1995) Associate Professor; Ph.D.; University of Utah
Cherem, Gabriel J. (1987) Professor; Ph.D.; University of Michigan
Clark, Christine (2002) Assistant Professor; Ph.D.; University of Manitoba, Canada
Jones, Robert A. (2003) Assistant Professor; Ph.D.; Portland State University
Kasenow, Michael (1989) Professor; Ph.D.; Western Michigan University
Ligibel, Ted (1991) Professor; Ph.D.; Bowling Green State University
LoDuca, Steven T. (1992) Professor; Ph.D.; University of Rochester
Mayda, Chris (1999) Associate Professor; Ph.D.; University of Southern California
Nazzaro, Andrew (1969) Professor; Ph.D.; Michigan State University
Poli, Serena M. (2000) Associate Professor; Ph.D.; University of Padova, Italy
Rutherford, Sandra (2003) Assistant Professor; Ph.D.; University of Western Ontario, Canada
Semple, Hugh (2002) Assistant Professor; Ph.D.; University of Manitoba, Canada
Sickels-Taves, Lauren (1998) Associate Professor; Ph.D.; University of Edinburgh
Tyler, Norman R. (1990) Professor; Ph.D.; University of Michigan
Health Promotion and Human Performance

Bedford, Eddie (1989) Assistant Professor; M.S.; University of Wisconsin
Bretting, Michael (1993) Associate Professor and Associate Dean, College of Education; Ph.D.; University of Maryland
Chiasson, Victor (1991) Assistant Professor; M.A.; Central Michigan University
Colon, Geoffrey (1998) Associate Professor; Ph.D.; Michigan State University
Conley, Kathleen (1999) Professor; Ph.D.; Southern Illinois University at Carbondale
Cowdery, Joan (2006) Assistant Professor; Ph.D.; University of Alabama
Faust, Roberta (2000) Assistant Professor; Ph.D.; Ohio State University
Johnson, Jodi (1998) Assistant Professor, M.S.; University of Florida
Karshin, Christine M. (2001) Associate Professor, Ph.D.; The Pennsylvania State University
Levine, Shel (1999) Associate Professor; M.S., M.S.A., C.E.S.; Syracuse University
McCarthy, Susan K. (2001) Associate Professor; Ph.D.; University of Toledo
McGregor, Stephen (2000) Associate Professor; Ph.D.; University of Toledo
Moreno, A. (2004) Assistant Professor; Ph.D.; Michigan State University
Nair, Muralidaran (2000) Associate Professor; Ph.D.; University of Virginia
Paciorek, Michael (1981) Professor; Ph.D.; Peabody College of Vanderbilt University
Pendleton, Sharon Y. (1988) Instructor; M.A.; Oklahoma University
Ricciardo, Jerry (1988) Associate Professor; Ph.D.; Texas A&M University
Riemer, Brenda (2004) Assistant Professor; Ph.D.; Michigan State University
Woodiel, Kay (1998) Assistant Professor; Ph.D.; University of Arkansas
Zelnik-Geldys, Suzanne Marie (1990) Assistant Professor; M.A.; University of Pittsburgh

Health Sciences

Brooks, Judith (1999) Associate Professor; Ph.D.; Oklahoma State University
Clifford, David (1986) Professor; Ph.D.; University of Michigan
Croxall, Colleen L. (1996) Associate Professor; Ph.D.; Wayne State University
Douglass, Richard (1987) Professor; Ph.D.; University of Michigan
Francis-Connolly, Elizabeth (1991) Professor; Ph.D.; University of Michigan
Gossett, Andrea (2008) Assistant Professor; OTD; University of Illinois, Chicago
Hammerberg, Gary (1984) Assistant Professor; Ed.D.; Western Michigan University
Hansen, Ruth (1976) Professor Emeritus; Ph.D.; Wayne State University
Haque, Rubina (2006) Assistant Professor; Ph.D.; Wayne State University
Howells, Valerie (1998) Professor; Ph.D.; Cambridge Graduate School of Psychology
Lemerand, Pamela (2005) Assistant Professor; Ph.D.; University of Michigan
Liepa, George U. (1995) Professor; Ph.D.; Iowa State University
Mistry, Anahita (2005) Assistant Professor; Ph.D.; University of Hyderabad, India.
Olson, Judith (1991) Professor Emeritus; Ph.D.; Wayne State University
Rainville, Alice Jo (1998) Professor; Ph.D.; University of Texas-Houston
Reeves, Gretchen D. (2001) Associate Professor; Ph.D.; University of Michigan
Shetron-Rama, Lynne (2007) Assistant Professor; Ph.D.; Wayne State University
Silverman, Deborah W. (1979) Assistant Professor; M.S.; University of Cincinnati
Sonstein, Stephen (1984) Professor; Ph.D.; Hahneman Medical College
Thomas, David (1997) Associate Professor; Ed.D.; Temple University
Walsh, Pamela (2005) Assistant Professor; M.A.; Wayne State University
Yatczak, Jayne (2008) Instructor; MS, Eastern Michigan University
History and Philosophy

Bruya, Brian (2004) Assistant Professor; Ph.D.; University of Hawaii
Cassar, George H. (1968) Professor; Ph.D.; McGill University
Chamberlain, Kathleen P. (2001) Associate Professor; Ph.D.; University of New Mexico
Citino, Robert (1991) Professor; Ph.D.; Indiana University
Crouch, Margaret (1987) Professor; Ph.D.; University of Minnesota
Delph, Ronald (1993) Associate Professor; Ph.D.; University of Michigan
Dieterle, Jill Marie (1998) Associate Professor; Ph.D.; Ohio State University
Egge, James (2002) Associate Professor; Ph.D.; University of Chicago
Engwenyu, Joseph (1994) Instructor; ABD; University of Dalhousie
Graves, Pamela (1989) Associate Professor; Ph.D.; University of Pittsburgh
Higbee, Mark (1995) Professor; Ph.D.; Columbia University
Holoka, James P. (1974) Professor; Ph.D.; University of Michigan
Homel, Michael W. (1970) Professor; Ph.D.; University of Chicago
Jones, Michael T. (1973) Professor; Ph.D.; Ohio State University
Long, Roger D. (1990) Professor; Ph.D.; University of California
McCurdy, John (2004) Assistant Professor; Ph.D.; Washington University
Mehuron, Kate (1989) Professor; Ph.D.; Vanderbilt University
Moss, Walter G. (1970) Professor; Ph.D.; Georgetown University
Murcher, Stephen (2003) Assistant Professor; Ph.D.; University of Michigan
Nation, Richard F. (2001) Associate Professor; Ph.D.; University of Michigan
Nelson, Gersham A. (1997) Professor; Ph.D.; University of Illinois-Chicago
Olwell, Russell B. (1999) Associate Professor; Ph.D.; Massachusetts Institute of Technology
Pritchard, Linda K. (2002) Professor; Ph.D.; University of Pittsburgh
Ramold, Steven (1999) Assistant Professor; Ph.D.; University of Nebraska
Reed, Michael H. (1987) Professor; Ph.D.; University of Minnesota
Schmitz, Philip C. (1993) Associate Professor; Ph.D.; University of Michigan
Schott, Linda K. (2003) Professor, Ph.D.; Stanford University
Vinyard, JoEllen (1986) Professor; Ph.D.; University of Michigan
Watson, Paula Lori (2004) Assistant Professor; Ph.D.; University of Illinois-Chicago

Leadership and Counseling

Ametrano, Irene M. (1981) Professor; Ed.D.; Rutgers University
Anderson, David (1999) Associate Professor; Ed.D.; University of Michigan
Barott, James E. (1998) Associate Professor; Ph.D.; University of California-Santa Barbara
Berry, James E. (1991) Professor; Ed.D.; University of Missouri-Columbia
Bleyaert, Barbara A. (2005) Assistant Professor; Ed.D.; Eastern Michigan University
Broughton, Elizabeth (1997) Associate Professor; Ed.D.; University of Florida
Burton, Ella (2000) Associate Professor; Ed.D.; Wayne State University
Callaway, Yvonne L. (1992) Professor; Ph.D.; Wayne State University
Choudhuri, Devika (2001) Associate Professor; Ph.D.; Syracuse University
Dugger, Suzanne M. (1998) Associate Professor; Ed.D.; Western Michigan University
Francis, Perry (2005) Associate Professor; EdD; University of Northern Colorado
Marx, Gary (2005) Assistant Professor; EdD; Wayne State University
Parfitt, Diane (2006) Assistant Professor; Ph.D.; University of Toledo
Price, William J. (1991) Professor; Ph.D.; Michigan State University
Stickel, Sue A. (1991) Professor; Ph.D.; University of Wyoming
Tack, Martha W. (1990) Professor; Ph.D.; University of Alabama
Tracy, Jaclynn C. (1992) Professor and Department Head; Ph.D.; Michigan State University
Zamani-Gallaher, Eboni M. (2001) Associate Professor; Ph.D.; University of Illinois

Management

Banerji, Kunal (1992) Assistant Professor, Ph.D.; University of Kentucky
Blanchard, Nick P. (1979) Professor; Ph.D.; Wayne State University
Bush-Bacelis, Jean (1984) Professor; Ph.D.; Wayne State University
Camp, Richaud R. (1979) Professor; Ph.D.; Wayne State University
Chowdry, Pradeep (1980) Associate Professor; Ph.D.; University of Arkansas
Chowdhury, Sanjib (1999) Associate Professor; Ph.D.; University of North Texas
Endres, Megan (1998) Assistant Professor; Ph.D.; University of North Texas
Frye, Crissie M. (2000) Assistant Professor; Ph.D.; University of Iowa
Huszczko, Gregory E. (1978) Professor; Ph.D.; Michigan State University
Isenhour, Linda (2004) Assistant Professor; University of Central Florida
McEnery, Jean M. (1980) Professor; Ph.D.; Wayne State University
Milner, Morgan (2004) Assistant Professor; Ph.D.; Michigan State University
Newell, Stephanie E. (1994) Associate Professor; Ph.D.; University of Massachusetts-Amherst
Schulz, Eric (2000) Associate Professor; Ph.D.; Rutgers University
Tanguay, Denise (1986) Professor; Ph.D.; University of Michigan
Tubbs, Stewart L. (1986) Professor; Ph.D.; University of Kansas
Victor, David A. (1985) Professor; Ph.D.; University of Michigan
Vielhaber, Mary E. (1977) Professor; Ph.D.; University of Michigan
Wagner-Marsh, Fraya C. (1982) Professor and Department Head; D.B.A.; Memphis State University
Waltman, John L. (1985) Professor; Ph.D.; University of Texas
Wong, Diana (1999) Associate Professor; Ph.D.; University of Massachusetts

Marketing

Allbright, David E. (2005) Assistant Professor; Ph.D.; University of Georgia
Barton, Daryl L. (1975) Associate Professor; J.D.; University of Michigan
Chao, Paul (2004) Professor; Ph.D.; University of Washington
Davis, Judy (1993) Professor; Ph.D.; Michigan State University
Defebaugh, Sandra J. (1987) Associate Professor; J.D.; Detroit College of Law
Edwards, Elizabeth A. (1992) Professor; Ph.D.; University of Michigan
Fullerton, Sam (1982) Professor; Ph.D.; Michigan State University
McCullough, Tammy M. (1994) Professor; Ph.D.; University of Washington
McSurely, Hugh B. (1981) Professor; Ph.D.; Syracuse University
Merz, G. Russell (1982) Professor; Ph.D.; Michigan State University
Neuhaus, Colin F. (1969) Professor; Ph.D.; University of Michigan
Pearcy, Dawn H. (2002) Assistant Professor; Ph.D.; Florida State University
Persinger, Elif (2002) Assistant Professor; Ph.D.; Michigan State University
Sachdev, Harash (1991) Professor; Ph.D.; Georgia State University
Sasser, Sheila L. (2006) Assistant Professor; Ph.D.; Wayne State University
Sauber, Matthew H. (1990) Professor; Ph.D.; University of Texas
Victor, Gary M. (1974) Professor; J.D.; University of Toledo
Zboja, James (2006) Assistant Professor; Ph.D.; Florida State University

Mathematics
Ahlbrandt, Gisela E. (1984) Professor; Ph.D.; University of Illinois-Chicago
Al-Khafaji, Mahmoud (1983) Assistant Professor; Ph.D.; New Mexico State University
Britton, Barbara (1997) Associate Professor; Ph.D.; Illinois State University
Calin, Ovidiu (2002) Associate Professor; Ph.D.; University of Toronto
Caniglia, Joanne (1994) Professor; Ph.D.; Kent State University
Carroll, Timothy B. (1986) Professor; Ph.D.; Western Michigan University
Chattopadhyay, Rita (1984) Professor; Ph.D.; University of South Florida
Chu, Shenghui (1986) Professor; Ph.D.; University of Michigan
Curran, John (2004) Assistant Professor; Ph.D.; Brown University
Folk, David B. (1987) Professor; Ph.D.; University of Michigan
Gardiner, Christopher J. (1984) Professor; Ph.D.; University of Illinois-Urbana-Champaign
Ginther, John L. (1965) Professor; Ph.D.; University of Illinois
Green, Geraldine A. (1989) Professor; Ph.D.; University of Michigan
Han, Xiaoxu (2005) Assistant Professor; Ph.D.; University of Iowa
Howard, Paul E. (1970) Professor; Ph.D.; University of Michigan
Jones, Joan Cohen (1998) Professor; Ph.D.; Georgia State University
Leopard, Barbara (2000) Associate Professor; Ph.D.; University of Toledo
Liu, Juqiang (1993) Professor; Ph.D.; Western Michigan University
Parry, Walter (1984) Professor; Ph.D.; University of California-Berkeley
Ramanathan, Jayakumar (1990) Professor; Ph.D.; University of Chicago
Rescorla, Kim L. (1985) Professor; Ph.D.; University of Utah
Ross, Andrew (2006) Assistant Professor; Ph.D.; University of California-Berkeley
Shapla, Tanweer (2006) Assistant Professor; Ph.D.; Bowling Green State University
Shiskowski, Kenneth M. (1983) Professor; Ph.D.; Lehigh University
Tayeh, Carla (1989) Professor; Ph.D.; Southern Illinois University
Wang, Bingwu (2002) Assistant Professor; Ph.D.; Wayne State University
Warren, Bette (1984) Professor and Department Head; Ph.D.; Indiana University

Music and Dance

Amos, Charles N. (1975) Professor; Ph.D.; University of Iowa
Babcock, Donald J. (2001) Assistant Professor; D.M.A.; Michigan State University
Boerma, Scott (2004) Assistant Professor; M.M.; University of Michigan
Brandon, Ernest M. (1975) Associate Professor; M.M.; Northwestern University
Cole-Luevano, Kimberly (1996) Associate Professor; D.M.A.; Michigan State University
Dorsey, John F. (1997) Assistant Professor; M.M.; University of Michigan
Eggers, Carter J. (1967) Professor; M.M.; Ithaca College
Foster, Daniel L. (1987) Associate Professor; M.M.; University of Michigan
Gajda, Anne B. (1979) Professor; M.M.; University of Michigan
Hornbach, Christina (2005) Assistant Professor; Ph.D.; Michigan State University
Iannaccone, Anthony J. (1971) Professor; Ph.D.; Eastman School of Music University of Rochester
Jerome, Sherry (1999) Assistant Professor; M.F.A.; Texas Christian University
Kirkland, Glenda E. (1973) Professor; M.A.; Eastern Michigan University
McGuire, Michael G. (1983) Professor; M.M.; State University of New York
McNamara, Joann (1986) Professor; Ph.D.; Texas Women's University
Meretta, Kristy L. (1987) Professor; M.A.; University of Michigan
Miller, Kevin (1991) Associate Professor; M.M.; University of Michigan
O'Brien-Pedersen, Julieanne (1998) Assistant Professor; M.F.A.; Ohio State University
Patrick, Louise Rose (1990) Professor; Ph.D.; Michigan State University
Pedersen, Garik (1989) Professor; D.M.A.; University of Iowa
Pierce, David (1990) Professor; D.M.A.; University of Illinois-Urbana-Champaign
Plank, Max E. (1968) Professor; D.M.A.; University of Michigan
Prince, J. Whitney (1981) Professor; D.M.A.; University of Colorado
Ruiter-Feenstra, Pamela (1996) Associate Professor; D.M.A.; University of Iowa
Saker, Marilyn N. (1993) Associate Professor; Ph.D.; University of Wisconsin-Madison
Schoenhals, Joel (2001) Assistant Professor; D.M.A.; Eastman School of Music University of Rochester
Simmons, Phil (2006) Assistant Professor; M.F.A.; University of Georgia
Smith, John R. (1969) Assistant Professor; M.A.; Eastern Michigan University
Stone, Julie (1994) Associate Professor; D.M.A.; University of Maryland-College Park
Waymire, Mark (2006) Assistant Professor; M.M.; Sam Houston State University
Winder, Diane (1988) Professor; D.M.; Florida State University
Woike, David O. (1990) Professor and Department Head; Ph.D.; Ohio State University

Nursing

Beard, Betty J. (1976) Professor; Ph.D., R.N.; University of Michigan
Berry, Linda M. (1994) Associate Professor; Ph.D., R.N.; University of Michigan
Bigelow, April (2004) Assistant Professor; M.S.N., R.N.; University of Michigan
Branson-Hillegas, Kathleen (1981) R.N./B.S.N. Coordinator, Associate Professor; M.S.; University of Michigan
Ervin, Naomi E. (2006), Professor and Director; Ph.D., R.N., A.P.R.N., B.C., F.A.A.N.; University of Michigan
Fox, Diane (2004) Assistant Professor; M.S.N., R.N.; Eastern Michigan University
Kao, Tsui-Sui (2006) Assistant Professor; M.S.N., R.N.; University of Michigan
Lan, Virginia (1997) Associate Professor; Ph.D., R.N.; University of Michigan
Nelson, Sandra (1990) Associate Professor; Ph.D., A.P.R.N., BC.; Michigan State University
Pfoutz, Susan (1998) Professor; Ph.D., R.N.; University of Michigan
Riley, Janice (2002) Lecturer; M.S., R.N.; Eastern Michigan University
Rubenfeld, Marlene G. (1986) Associate Professor; R.N., M.S.; Ohio State University
Scheffer, Barbara K. (1976) Professor; Ed.D., R.N.; Eastern Michigan University
Tanicala, Martha (1999) Associate Professor; Ed.D, R.N.; Bowling Green University
Trewn, Peggy (1998) Associate Professor; Ph.D., R.N.; Wayne State University
Williams, Michael (1998) Associate Professor; M.S.N., R.N.; Grand Valley State University
Wilson, Lorraine (1988) Professor; Ph.D., R.N.; Wayne State University
Wiswell, Lisa (2005) Assistant Professor; Ed.D., R.N.; University of California
Wu, Tsu-Yin Stephanie (1999) Associate Professor; Ph.D., R.N.; University of Michigan

Physics and Astronomy

Behringer, Ernest R. (1995) Associate Professor; Ph.D.; Cornell University
Carroll, James J., III (1998) Associate Professor; Ph.D.; West Virginia University
Jacobs, Diane A. (1985) Professor; Ph.D.; University of Texas-Austin
Koehn, Patrick L. (2005) Assistant Professor; Ph.D.; University of Michigan.
Oakes, Alexandria (1987) Professor and Department Head; Ph.D.; Lehigh University
Porter, James C. (1967) Professor; Ph.D.; Purdue University
Sharma, Nathli L. (1986) Professor; Ph.D.; Ohio University
Sheerin, James P. (1991) Professor; Ph.D.; University of Michigan
Shen, Weidian C. (1991) Professor; Ph.D.; Wayne State University
Thomsen, J. Marshall (1986) Professor; Ph.D.; Michigan State University
Trochet, Daniel P. (1968) Professor; Ph.D.; University of Michigan
Wylo, Bonnie (1988) Professor; Ph.D.; University of Michigan

Political Science
Bernstein, Jeffrey (1997) Assistant Professor; Ph.D.; University of Michigan
Carroll, Bruce (2006) Assistant Professor; Ph.D.; University of Houston
Krause, Volker (2005) Assistant Professor; Ph.D.; University of Michigan
Kullberg, Judith (2004) Assistant Professor; Ph.D.; University of Michigan
Longworth, Rhonda (1994) Associate Professor and Interim Assistant Vice President for Academic Affairs; Ph.D.; University of Iowa
Lottie, Adrian J. (1992) Associate Professor; Ph.D.; Wayne State University
Martin, Elaine F. (1984) Professor; Ph.D.; University of Oklahoma
Monsma, Charles (1971) Professor; Ph.D.; University of Michigan
Ohren, Joseph F. (1985) Professor; Ph.D.; Syracuse University
Petrescu, Claudia (2002) Assistant Professor; Ph.D.; University of Pittsburgh
Pfister, James Wilber (1970) Associate Professor; Ph.D.; University of Michigan
Pyle, Barry (1997) Associate Professor; Ph.D.; University of Missouri-St. Louis
Rosenfeld, Raymond A. (1983) Professor and Department Head; Ph.D.; Emory University
Sabki, Mohammad Hisham (1969) Professor; Ph.D.; Indiana University
Scott, Joanna V. (1990) Professor; Ph.D.; University of Strathclyde, Scotland
Sidlow, Edward (1995) Professor; Ph.D. Ohio State University
Sneed, Bethany (2004) Assistant Professor; Ph.D.; Wayne State University
Stahler-Sholk, Richard (1997) Associate Professor; Ph.D.; University of California-Berkeley
Zhao, Zhirong "Jerry" (2005) Assistant Professor; Ph.D.; University of Georgia

Psychology

Bonem, Marilyn K. (1987) Associate Professor; Ph.D.; Utah State University
Byrd, Michelle R. (2002) Assistant Professor; Ph.D.; University of Nevada at Reno
Delprete, Dennis J. (1969) Professor; Ph.D.; Michigan State University
Fish, Barry A. (1970) Professor; Ph.D.; Wayne State University
Freedman-Doan, Carol R. (1995) Professor; Ph.D.; Wayne State University
Gordon, Norman G. (1975) Professor; Ph.D.; Wayne State University
Hodges, Kay V. (1989) Professor; Ph.D.; University of Maryland
Hoodin, Flora (1998) Associate Professor; Ph.D.; Wayne State University
Huprich, Steven (2004) Assistant Professor; Ph.D.; University of North Carolina at Greensborough
Huth-Bocks, Alissa (2005) Assistant Professor, Ph.D.; Michigan State University
Jeffersom, Stephen (2006) Assistant Professor; Ph.D.; Michigan State University
Knapp, John R. (1971) Professor; Ph.D.; University of Denver
Koch, Ellen (2003) Assistant Professor; Ph.D.; Western Michigan University
Lajiness-O'Neill, Renee (2005) Assistant Professor, Ph.D.; Brigham Young University
Lauterbach, Dean (2001) Professor; Ph.D.; Purdue University
McManus, John L. (1981) Associate Professor; Ph.D.; Ohio State University
Penix, Tamara (2006) Assistant Professor; Ph.D.; University of Nevada at Reno
Rusiniak, Kenneth W. (1981) Professor; Ph.D.; University of California at Los Angeles
Saules, Karen K. (2001) Professor; Ph.D.; Wayne State University
Todd, James T. (1990) Professor; Ph.D.; University of Kansas
Von Kluge, Silvia (1990) Professor; Ph.D.; Michigan State University
Westman, Alida S. (1972) Professor; Ph.D.; Cornell University
Witkow, Melissa (2006) Assistant Professor; Ph.D.; University of California at Los Angeles

Social Work

Bombyk, Marti (1996) Professor; Ph.D.; University of Michigan
Brown-Chappell, Betty (1996) Associate Professor; Ph.D.; University of Chicago
Davis, Laura (1994) Associate Professor; Ph.D.; Cornell University
Gray, Sylvia Sims (1988) Associate Professor; Ph.D.; Wayne State University
Gunther, John (2001) Professor; Ph.D.; Tulane University (1979)
Krajewski-Jaime, Elvia (1985) Professor; Ph.D.; University of Texas
Kurtz, Linda Ferris (1989) Professor; Ph.D.; University of Georgia
Lewis, Ronald (1992) Professor; Ph.D.; University of Denver
Lopnow, Donald (1976) Professor and Senior Executive for Institutional Effectiveness; Ph.D.; University of Michigan
Massie, Enos (1989) Associate Professor; Ph.D.; University of Michigan
Mills, Crystal (1992) Professor; Ph.D.; University of Michigan
Nybell, Lynn (1983) Associate Professor; Ph.D.; M.S.W.; University of Michigan
Ragg, Mark (1996) Associate Professor; Ph.D.; Case Western Reserve
Schuster, Elizabeth Oates (1986) Professor; Ph.D.; University of Michigan
Smith, Harrison Y. (1994) Professor; Ph.D.; University of Denver
Wedenoja, Marilynn (1992) Professor; Ph.D.; University of Michigan
Weinberg, Sylvia (1996) Associate Professor; Ph.D.; University of Texas
Ziefert, Marjorie (1981) Professor and Department Head; M.S.W.; Columbia University

Sociology, Anthropology and Criminology

Adams, Anthony Troy (1985) Associate Professor; Ph.D.; University of Michigan
Ajrouch, Kristine (2000) Assistant Professor; Ph.D.; Wayne State University
Barak, Gregg (1991) Professor; Ph.D.; University of California-Berkley
Cao, Liqun (1994) Professor; Ph.D.; University of Cincinnati
Cerroni-Long, Liza (1987) Professor; Ph.D.; University of California at Los Angeles
Corsianos, Marilyn (2002) Assistant Professor; Ph.D.; York University
Kern, Roger (1998) Assistant Professor; Ph.D.; Vanderbilt University
Leighton, Paul (1997) Associate Professor; Ph.D.; American University
Moaddel, Mansoor (1987) Professor; Ph.D.; University of Wisconsin
Orrange, Robert M. (2001) Assistant Professor; Ph.D.; University of Texas
Reiling, Denise (2000) Assistant Professor; Ph.D. Michigan State University
Richardson, Barbara (1991) Professor; Ph.D.; Cornell University
Simoes, Solange (2006) Assistant Professor; Ph.D. University of London
Sinclair, Karen (1976) Professor; Ph.D.; Brown University
Tomaszewski, E. Andreas (2001) Assistant Professor; Ph.D.; Carleton University
Weinstein, Jay (1986) Professor and Interim Department Head; Ph.D.; University of Illinois
Westrum, Ronald (1972) Professor; Ph.D.; University of Chicago

Special Education

Burton-Hoyle, Sally (2006) Assistant Professor; Ed.D; University of Idaho
Cameron, S. (2004) Assistant Professor; J.D.; University of Toledo
Carney, Karen (2002) Assistant Professor; Ph.D.; Arizona State University
Cupples, Willie P., Jr. (1994) Professor; Ph.D.; Northwestern University
Doster, Brenda (2006) Assistant Professor, Ph.D.; University of Michigan
Ginsberg, Sarah (2002) Assistant Professor; Ed.D; Eastern Michigan University
Gorenflo, Carole (1988) Professor; Ph.D.; Michigan State University
Hoodin, Ronald (1988) Professor; Ph.D.; Pennsylvania State University
Hric, Kathleen (2005) Assistant Professor; Ph.D.; University of Michigan
Koh, Myung-Sook (2005) Assistant Professor; Ph.D.; University of Memphis
Lee, Lidia (2002) Associate Professor; Ph.D.; Indiana University
Li, Tsai-Ping (Alicia) (1995) Assistant Professor; Ed.D.; University of Northern Colorado
McGinnis, Jacqueline (2002) Assistant Professor; Ph.D.; University of Nebraska-Lincoln
Parker, Kathlyn (1999) Assistant Professor; Ph.D.; Teacher's College- Columbia University
Rocklage, Lynne A. (1991) Professor and Department Head; Ph.D.; Southern Illinois University
Smith, P. (2004) Assistant Professor; Ed.D.; University of Vermont
Stevens, Lizbeth (1998) Associate Professor; Ph.D.; Wayne State University
Stuefel, G. (2004) Assistant Professor; Ph.D.; University of Michigan
Tonkovich, John (2000) Associate Professor; Ph.D.; University of Tennessee

Teacher Education

Baiyee, Martha (1998) Associate Professor; Ph.D.; Virginia Tech
Beauvais, Kathleen (1991) Professor; Ph.D.; University of Michigan
Bednar, Anne (1991) Professor; Ed.D.; Indiana University
Bennion, Donald (1993) Professor and Department Head; Ph.D.; Ohio University
Bigler, Mary (1977) Professor; Ph.D.; University of Michigan
Bishop, J. Joe (2002) Associate Professor; Ph.D.; University of Iowa
Burke, Wendy (2000) Associate Professor; Ph.D.; University of Illinois at Urbana-Champaign
Burns, Carolyn M. (2001) Assistant Professor; M.A.; University of Michigan
Carter, Carolyn J. (2001) Associate Professor; Ph.D.; Wayne State University
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