

**Southeast**  
Missouri State University™  
*Cape Girardeau*

# *Undergraduate* **Bulletin**

2013-2014



*Renovated Magill Hall*

# FALL SEMESTER 2013

*August 26 – December 20*

*Classes Begin - August 26*

Labor Day - no classes.....	September 2
Fall Break.....	October 16 (close of classes) - October 21 (8 a.m.)
Thanksgiving Recess.....	November 26 (close of classes) - December 2 (8 a.m.)
Final Exams.....	December 16-20
Commencement.....	December 21

# SPRING SEMESTER 2014

*December 23-January 17 (Wintersession)*

*January 21 – May 16 (Regular Semester)*

Martin Luther King, Jr. Birthday (no classes).....	January 20
Classes Begin.....	January 21
Spring Break.....	March 14 (close of classes) - March 24 (8 a.m.)
Easter Recess.....	April 17 (close of classes) – April 21 (8 a.m.)
Final Exams.....	May 12-16
Commencement.....	May 17

# SUMMER SEMESTER 2014

*First 4-Week Session: May 20 - June 13*

*Regular 8-Week Session: June 17 - August 8*

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The University maintains its teaching, public service, and operational activities in accordance with established schedules. Suspension of classes and/or campus operations is avoided whenever possible. Students, faculty, and staff are urged to use discretion and judgment when travel conditions are hazardous. If a state of emergency is declared for the entire community, the University will follow stated emergency procedures.

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**SOUTHEAST MISSOURI STATE UNIVERSITY'S ACCESSIBILITY PLAN**  
Southeast Missouri State University will take such means as are necessary to insure that no qualified disabled person is denied the benefits of, excluded from participation in, or otherwise subject to discrimination because Southeast Missouri State University's facilities are physically inaccessible to, or unusable by disabled persons. The accessibility standard required by Federal law for 'existing facilities' is that the recipient's program or activities when viewed in its entirety, must be readily accessible to disabled persons.

Southeast Missouri State University may meet this standard through such means as reassignment of classes, or other services to accessible locations, redesign equipment, assignment of aides, alterations of existing facilities, and construction of new accessible facilities. Southeast Missouri State University is not required to make structural changes in existing facilities where other methods are sufficient to comply with the accessibility standard described above.

Because scheduling classes, coordinating accommodations, and arranging housing in accessible facilities may require reasonable advance planning, students with disabilities accepted for admission should identify themselves and their disability within five days of the start of the semester of enrollment and indicate the nature of accommodation needed for their disability. Students should contact Disability Support Services, room 302, University Center, One University Plaza ms1300, Cape Girardeau, MO 63701; (573)651-2273. Inquiries about accessibility or other issues should be directed to Assistant to the President for Equity Issues, room 267, Dempster Hall, One University Plaza, Cape Girardeau, MO 63701, (573) 651-2524.

**NOTICE OF NONDISCRIMINATION**  
Applications from all persons are welcomed. Women, minorities, disabled persons are especially encouraged to apply. Southeast Missouri State University does not discriminate on the basis of race, color, religion, national origin, sex, age, or disability. Inquiries concerning the application of these regulations to the University may be directed to the Assistant to the President for Equity and Diversity Issues. Please direct inquiries to the Assistant to the President for Equity and Diversity Issues, Southeast Missouri State University, room 267, Dempster Hall, One University Plaza, Cape Girardeau, MO 63701, (573) 651-2524.

Situations may arise in which students believe that they have not received fair treatment by a representative of the University, or have concern about the performance, action, or inaction of a member of the staff or faculty which affects the student. Wherever possible, the student should approach the faculty or staff member first in an attempt to resolve the matter. Unresolved concerns involving faculty should be taken to the chairperson of the department and then to the dean of the college. Unresolved concerns involving non-faculty staff should be taken to the staff member's supervisor and then to the next higher supervisor.

In the event of a complaint alleging sexual harassment discrimination, the student may contact the Dean of Students, the Dean of a College or the Assistant to the President for Equity and Diversity Issues.

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*Southeast Missouri State University reserves the right to modify or change any rule or regulation stated herein. Southeast Missouri State University further reserves the right to modify or change any academic program subject to any limitation imposed by state law.*

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# BULLETIN 2013-2014

Cape Girardeau  
Phone (573) 651-2000

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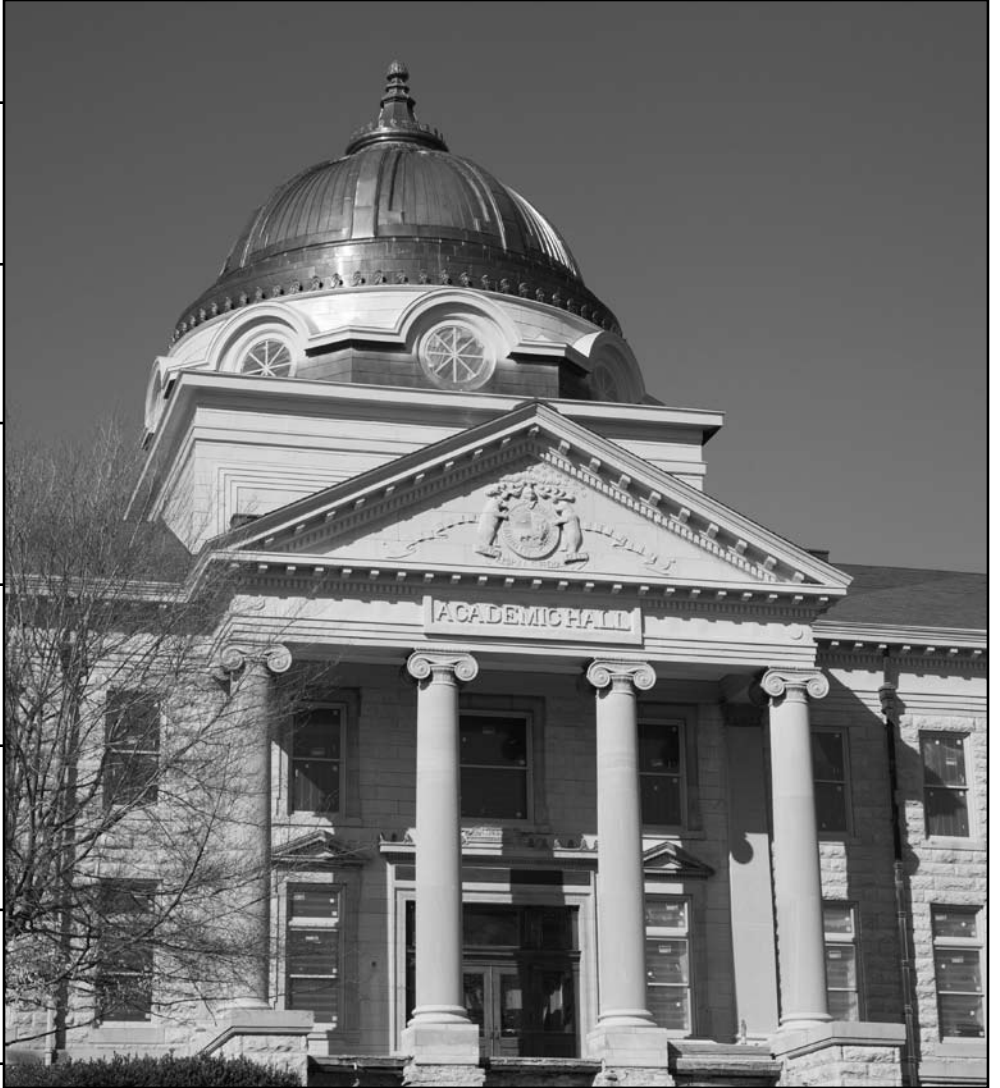
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*Overview*



## HISTORY AND LOCATION

The University was established by statute in 1873 as the “Third District Normal School” with a mission of educating teachers for the public schools of the region from St. Louis to the Bootheel of Missouri. By legislative enactment in 1919, the institution became “Southeast Missouri State Teachers’ College” and was authorized to grant degrees. The name “Southeast Missouri State College” was adopted on September 21, 1946, by permission of the General Assembly. The expanding educational mission of the school was reflected in the latest name change on August 24, 1972, when the Board of Regents, acting under authority from the legislature, approved the name “Southeast Missouri State University.”

Cape Girardeau, the home of Southeast Missouri State University, is situated on the Mississippi River and is one of the most historic cities in Missouri. The earliest European settlement dates to about 1733, and the town of Cape Girardeau was incorporated in 1808. The city offers a variety of cultural, recreational, educational, and health facilities to its nearly 40,000 residents and serves as the principal commercial center for a wide area with a population of more than 250,000, providing numerous employment opportunities for students.

The University’s main campus of over 328 acres includes the more than 100-year-old landmark building, Academic Hall, situated on a hill overlooking the city and the river. A second campus, located on a river bluff south of Cape Girardeau’s historic downtown area, was opened in 2007 and houses the University’s Earl and Margie Holland School of Visual and Performing Arts. The River Campus includes the Rosemary Berkel and Harry L. Crisp II Regional Museum and four state-of-the-art performance venues—the 950-seat Donald C. Bedell Performance Hall, the 205-seat Robert and Gertrude Shuck Recital Hall, the 200-seat Wendy Kurka Rust Flexible Theatre, and a dance studio with a 125-seat capacity. The University has developed the David M. Barton Agriculture Research Center, a 252-acre demonstration farm west of Cape Girardeau. In addition, the University has three regional campuses south of Cape Girardeau—at Kennett, Malden, and Sikeston—and it administers the Perryville Area Higher Education Center where classes are taught by faculty from both Southeast and Mineral Area College.

## MISSION, ROLE AND SCOPE

Southeast Missouri State University provides professional education grounded in the liberal arts and sciences and in practical experience.

The University, through teaching and scholarship, challenges students to extend their intellectual capacities, interests, and creative abilities; develop their talents; and acquire a lifelong enthusiasm for learning. Students benefit from a relevant, extensive, and thorough general education with a global perspective; professional and liberal arts and sciences curricula; co-curricular opportunities; and real-world experiences. By emphasizing student-centered and experiential learning, the University, in collaboration with other entities as appropriate, prepares individuals to participate responsibly in a diverse and technologically advanced world, and in this and other ways contributes to the development of the social, cultural, and economic life of the region, state and nation.

## ACCREDITATIONS AND AFFILIATIONS

**Southeast Missouri State University is fully accredited by:**

- NORTH CENTRAL ASSOCIATION OF COLLEGES AND SCHOOLS  
30 N. LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
Phone: (312) 263-0456; (800) 621-7440  
FAX: (312) 263-7462
- Higher Learning Commission Academic Quality Improvement Program (AQIP)

**The University holds specific program accreditations from:**

- AACSB INTERNATIONAL – THE ASSOCIATION TO ADVANCE COLLEGIATE SCHOOLS OF BUSINESS
- ABET, Inc.
- ACEJMC – ACCREDITING COUNCIL FOR EDUCATION IN JOURNALISM AND MASS COMMUNICATIONS
- ACEND – ACCREDITATION COUNCIL FOR EDUCATION IN NUTRITION AND DIETETICS
- ACS – AMERICAN CHEMICAL SOCIETY
- AND – ACADEMY OF NUTRITION AND DIETETICS

## 4 • Overview

*Southeast Missouri State University 2013-14*

- ASHA – AMERICAN SPEECH-LANGUAGE-HEARING ASSOCIATION/COUNCIL ON ACADEMIC ACCREDITATION IN AUDIOLOGY AND SPEECH-LANGUAGE PATHOLOGY
- ATMAE – ASSOCIATION OF TECHNOLOGY, MANAGEMENT, AND APPLIED ENGINEERING
- CAATE – COMMISSION ON ACCREDITATION OF ATHLETIC TRAINING EDUCATION
- CACREP – COUNCIL FOR THE ACCREDITATION OF COUNSELING AND RELATED EDUCATIONAL PROGRAMS
- CCNE – COMMISSION ON COLLEGIATE NURSING EDUCATION
- CHRIE – COUNCIL ON HOTEL, RESTAURANT AND INSTITUTIONAL EDUCATION
- CSWE - COUNCIL ON SOCIAL WORK EDUCATION
- NASM – NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC
- NAEYC – NATIONAL ASSOCIATION FOR THE EDUCATION OF YOUNG CHILDREN
- NCATE – NATIONAL COUNCIL FOR THE ACCREDITATION OF TEACHER EDUCATION
- NCFR/CFLE – NATIONAL COUNCIL ON FAMILY RELATIONS/CERTIFIED FAMILY LIFE EDUCATOR
- NIBS – NETWORK OF INTERNATIONAL BUSINESS SCHOOLS
- NRPA – NATIONAL RECREATION AND PARK ASSOCIATION/COUNCIL ON ACCREDITATION OF PARKS, RECREATION, TOURISM, AND RELATED PROFESSIONS
- Council of Colleges of Arts and Sciences
- Council of Graduate Schools in the United States
- Educause Learning Initiative
- Fulbright Association
- Higher Learning Commission
- Missouri Association of Student Financial Aid Personnel
- National Association for Campus Activities
- National Association for College Admissions Counselors
- National Association of College & University Business Officers
- National Association of Student Financial Aid Administrators
- National Association of Student Personnel Administrators
- National Collegiate Athletic Association
- National Collegiate Honors Council
- Society for Human Resources Management – Southeast Missouri Chapter

### **The institution is a member of:**

- American Association of Colleges of Nursing
- American Association of Colleges for Teacher Education
- American Association of Collegiate Registrars and Admissions Officers
- American Association of State Colleges & Universities
- American Council on Education
- Association of Governing Boards of Universities and Colleges
- Association for the Advancement of Sustainability in Higher Education
- College Board
- College and University Professional Association for Human Resources
- Commission on Collegiate Nursing Education
- Council for the Advancement and Support of Education
- Doyle L. Privett, Kennett  
President of the Board of Regents  
Term Expires January 1, 2015
- Kendra Neely-Martin, St. Louis  
Vice President of the Board of Regents  
Term Expires January 1, 2018
- Donald B. (Brad) Bedell, Sikeston  
Member, Board of Regents  
Term Expires January 1, 2013
- Jay Knudston, Cape Girardeau  
Member, Board of Regents  
Term Expires January 1, 2019
- Thomas M. Meyer, Cape Girardeau  
Member, Board of Regents  
Term Expires January 1, 2018
- Daren K. Todd, Kennett  
Member, Board of Regents  
Term Expires January 1, 2015
- Kevin J. Magnan, Festus  
Student Representative to the Board of Regents  
Term Expires January 1, 2014
- Chris L. NiCastro, Jefferson City  
Commissioner of Education  
Ex Officio

## SOUTHEAST MISSOURI STATE UNIVERSITY ALUMNI ASSOCIATION

With more than 67,000 alumni in all 50 states and nearly 80 countries, the Southeast family stays strong through shared experiences, fond memories and exciting opportunities for lifelong involvement. The Southeast Missouri State University Alumni Association works to support alumni and keep them connected to the University they call home.

In its efforts to advance Southeast's mission of becoming the University of First Choice, the Alumni Association has extended complimentary membership to all alumni which include a variety of services. The "Magazine of Southeast Missouri State University" is a 32-page, full-color magazine published twice a year. The magazine includes feature articles, updates on campus news, and profiles of alumni, faculty and other members of the Southeast family. iAMsoutheast is an interactive online community that allows alumni to stay personally and professionally connected to one another. Both services, along with many others, are provided free to Alumni Association members of Southeast Missouri State University.

For more information on the Alumni Association, visit [www.iAMsoutheast.com](http://www.iAMsoutheast.com).

## SOUTHEAST MISSOURI UNIVERSITY FOUNDATION

A state-assisted institution, Southeast Missouri State University receives only a portion of its funding from state revenue, tuition and auxiliaries. The remainder is raised by the Southeast Missouri University Foundation in the form of private gifts by alumni and friends who believe in bringing students a high-quality education that ensures students experience success in our global society.

Since its founding in 1983, the University Foundation has worked diligently to raise and manage funds for the betterment of Southeast Missouri State University and its students that support:

- Scholarships and financial aid that help make a Southeast education even more affordable for future students;
- Faculty advancement, including continuing education funds, endowed faculty chairs and classroom resources;
- Technology upgrades that bring the newest technology to students in all disciplines; and
- Facilities improvements that guarantee students and faculty will have the best environment in which to learn and grow.

For more information on the Foundation and ways to support Southeast, visit [www.semofoundation.org](http://www.semofoundation.org).



*Admission/Expenses/Academic Policies*

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## **ADMISSION**

Admission decisions are made without regard to race, color, creed, gender, disability or national origin.

Applicants for admission must complete an admissions application and return it with a \$30 non-

refundable application fee. Applicants must also request that their high school counselor and the registrar of each college attended send complete official transcripts to the Office of Admissions. No student is officially admitted until all high school and college transcripts are reviewed and the Office of Admissions evaluates the official results of the student's college entrance exam(s) (ACT or SAT).

Students interested in applying for the fall semester are urged to apply through the early admission process. Applications should be submitted to the Office of Admissions no later than December 1 to take advantage of certain scholarship and enrollment privileges. For students who do not take advantage of early fall admission, applications for the fall semester should be submitted prior to July 1. Applications for the spring semester should be submitted prior to November 1, and applications for the summer semester should be submitted prior to May 1. Contact the Office of Admissions for specific details. Admission to the University does not guarantee admission to specific programs.

Applicants for admission are asked to disclose details of previous civil or college discipline. The Office of Admissions and the Office of the Dean of Students will review information provided by the applicant and may request additional information and a personal interview with the applicant prior to reaching an admission decision. The University reserves the right to deny admission to an applicant or admit with restrictions based upon the review. Misrepresentation of the facts or failure to provide requested information could be cause for refusal of admission, cancellation of admission or suspension from the University.

### **ADMISSION OF FIRST YEAR STUDENTS (Freshmen)**

Applicants who have graduated from an accredited high school will be considered for admission to the University. Minimum admission requirements are based on class rank and ACT/SAT assessment standards as well as high school grade point average. Additionally, applicants must complete the required high school core curriculum in effect at the time of admission.

Applicants must complete at least 17 units of preparation in high school including four units of English (two emphasizing composition or writing skills; composition, English I-IV, literature and one unit of speech or debate acceptable); three units of mathematics (Algebra I, Algebra II/Intermediate Algebra, Geometry, Trigonometry, Pre-Calculus, Calculus, Math Analysis acceptable); three units of social studies (one unit of American history and one semester of government required; contemporary issues, business law, economics, philosophy, psychology, sociology, world history also acceptable); three units of science (not including general science; select from physical science, biology, chemistry, physics, botany, zoology, astronomy, environmental science, earth science or anatomy & physiology; one must be a laboratory course); and one unit of visual/performing art (art, dance, music, or theatre). Three additional units must be selected from foreign languages and/or the subjects listed above. Two units of foreign language and additional units of science are strongly recommended.

Applicants who are seeking admission to a Southeast regional campus but do not meet the regular admission requirements may enroll at a regional campus through the Step Up to Southeast admission program.

Applicants who are classified as non-traditional are not required to take any testing for admission. High school transcripts with proof of graduation or completion of the GED must be submitted. For additional information, contact the Office of Admissions.

Students who do not meet admission requirements may appeal to the Director of Admissions. The Director of Admissions and/or the University Student Affairs Committee will make the final decision regarding admission appeals.

### **ADMISSION OF RETURNING STUDENTS**

Undergraduate students who previously attended Southeast Missouri State University but have been away for one full semester, excluding summer, must apply for readmission. Students applying for readmission should submit the Returning Undergraduate Application for Admission with a \$15 non-refundable returning student application fee. In addition, official transcripts from all colleges attended since the last semester of enrollment at Southeast must be sent to the Office of Admissions. Readmission to Southeast is dependent on academic performance.

## ADMISSION OF TRANSFER STUDENTS

Applicants from regionally accredited colleges or universities who have completed 24 transferable semester hours with a cumulative transfer grade point average of 2.0 or higher on a four point scale are considered for admission upon presentation of official transcripts showing statements of credits and honorable dismissal. Applicants who have completed fewer than 24 transferable semester hours must also meet First Year Student admission requirements.

Transfer students under temporary or limited academic suspension from another college may be considered for admission to the University only after the suspension period has been satisfied. Transfer students under indefinite academic suspension from another college are considered for admission only if they appeal to the Director of Admissions and the University Student Affairs Committee and the appeal is granted. For specific information about academic standing, refer to the heading Academic Standing under Academic Policies and Procedures. Appeals must be received no later than one month before the start of the term for which admission is requested. Letters of appeal must include the applicant's assessment of the reason for earning below average grades and how the applicant plans to overcome past difficulties if accepted.

**Articulation Agreement.** The University has ratified Articulation Agreements with the public colleges and universities in Missouri, with Arkansas Northeastern College in Arkansas, with Southwestern Illinois College, John A. Logan College, Kaskaskia College, Lewis and Clark Community College, Rend Lake College, Shawnee College, and Southeastern Illinois College in Illinois, with West Kentucky Community and Technical College in Kentucky, with Dyersburg State Community College in Tennessee, and with Kolej Damansar Utama, INTI, and RIMA Colleges in Malaysia. These agreements state that transfer students will be given every possible advantage, within the limits of the agreements, when transfer credit is evaluated.

**Credit Accepted.** Credit from other institutions is accepted only to the extent that it counts toward a transfer degree in the institution where it was earned. Ordinarily, vocational/technical courses will not be transferable.

**Transfer Credit Appeals.** A student has the right to appeal a denial of transfer credit from an accredited Missouri college or university. Questions about awarding of transfer credit should first be addressed to the Office of the Registrar. If the student's appeal is denied

by the Registrar, a student may petition the University Student Affairs Committee to review the appeal. If the student's petition is denied by the University Student Affairs Committee, an appeal may be made to the Provost of the University. The Provost is the final level of appeal within the University. A student whose appeal is denied by the Provost may appeal to the state-level committee on articulation and transfer. Appeal requests must state in writing the reason for the appeal and be sent to: Commissioner of Higher Education, Coordinating Board for Higher Education, 3515 Amazonas Drive, Jefferson City, MO 65109.

## INTERNATIONAL STUDENT INFORMATION

### Regular Admission of International Students

Applicants who are not citizens or permanent residents of the United States must apply through the Office of International Education and Services. The process includes: (1) Complete the Application for International Student Admission. (2) Send official scores from the Test of English as Foreign Language (TOEFL iBT) or International English Language Testing System (IELTS). An iBT score of 61 or higher or an IELTS total band score of 5.5 or higher is required for undergraduate admission. Applicants who lack the required TOEFL or IELTS may be conditionally admitted to undergraduate study by first completing the University's Intensive English Program (IEP). Students who completed their secondary education in Australia, Canada, New Zealand or the United Kingdom are exempt. (3) Submit official transcripts and degree confirmation for all secondary schools and colleges attended. Photocopies must be notarized or certified as true copies of the original document. If the originals are not in English, certified English translations must also be included. (4) Submit evidence of financial resources necessary to attend the University.

**Transfer Students:** entering students are responsible for providing the University with official transcripts for all postsecondary education, as well as official course descriptions. If the originals are not in English, certified English translations are also required for credit to be awarded. Students are responsible for obtaining the required translations of the degree, transcripts and course descriptions.

**Foreign Language Credit:** Non-native speakers of English who are pursuing a degree that requires study of a foreign language may request that their native language satisfy their requirement. Students should contact the Department of Global Cultures and Languages to

obtain a waiver of the requirement.

**Admission as an International Exchange Student:** International students in good standing who plan to participate in an official study abroad or exchange program at the University for one year or less are admitted as visiting students through the Office of International Education and Services. The process includes: (1) Complete the Visiting (Exchange) Student Application Form. (2) Submit statement of English proficiency from the sending institution or partner, or submit official TOEFL iBT of 61 or IELTS of 5.5. The requirement may be waived for applicants whose native language is English or who have completed their secondary education in a country where English is the native language. (3) Submit official statement of good academic standing from the sending institution or partner in lieu of official transcripts. (4) Submit evidence of financial resources or signed affidavit for the desired duration of study. International exchange students who decide to change to regular degree-seeking admission must follow all admission procedures for the appropriate classification as outlined in the Undergraduate Bulletin or Graduate Bulletin.

**Intensive English Program:** The IEP serves the needs of international students who want additional English language study before undertaking, or to complement, their academic studies at the University, as well as students visiting from foreign colleges and universities. Undergraduate applicants who do not have the required IELTS or TOEFL may be given conditional admission, whereby they must complete the IEP prior to beginning undergraduate study. IEP students who successfully complete one or more advanced level courses may be eligible to bridge to undergraduate courses while completing the remaining IEP courses. Graduate applicants who do not have the required IELTS or TOEFL may be given conditional admission, whereby they must complete the graduate level of IEP with a grade of 'B' or higher prior to beginning graduate study. Additionally, individual departments may offer conditional admission to students also lacking the required GRE or GMAT; if so, missing scores must be submitted prior to beginning graduate study.

## SPECIAL ADMISSION

**Visiting Students.** Students in good standing at other colleges and universities may be enrolled for one specific academic period as visiting students. An official statement from the student's current school verifying good academic and social standing is accepted in lieu of a transcript. A "Statement of Standing or Degree"

may be obtained through the Admissions Office or by downloading the form from the following site: <http://www.semo.edu/admissions/visiting.htm>.

**Early College Credit Program.** The Early College Credit (ECC) program is designed to encourage high school students of outstanding ability to begin earning college credit after completion of their sophomore year. To be eligible for the ECC program students must have a 'B' average or equivalent in all high school work attempted or be superior in a specified area of academic work, be recommended by their principal or counselor, and meet specified course prerequisites.

**Special Students.** Applicants who do not intend to pursue a degree or other award given by the University may be admitted as special students. Special students who later decide to pursue a degree program must do so through the procedure established for admission of regular students. Credits earned as a special student may be applied toward a degree only with the approval of the Registrar and the chairperson of the department in which the student majors. Special students are not eligible for financial aid.

## ORIENTATION

**First-Year Student Orientation.** First STEP (Southeast Testing Enrollment Program) is the required Orientation program for all students who enter the University as a first-year student with fewer than 24 college credit hours. First STEP is a one-day program held the semester before a student begins his or her academic career at Southeast. The program includes academic advising and placement testing, registration for classes, residence hall information, services for students living off campus, financial aid, billing and parking information, campus tours and student ID pictures. First STEP includes informative programs designed for students and family members. A \$65 non-refundable orientation fee, which covers all Southeast orientation events, will be charged to the student's account after First STEP. Southeast also offers an opening week orientation held four days before classes begin in the Fall semester. The opening week orientation includes academic and social activities in which students interact with the faculty, staff and students of the Southeast community.

**Transfer Student Orientation.** Transfer Orientation is designed for students with 24 or more college credit hours transferring to Southeast Missouri State University. All transfer students are encouraged to attend Orientation, which is offered several times throughout the year. This one-day session includes academic advising and registration for classes, residence hall

information, services for off-campus students, financial aid, billing and parking information, campus tours and student ID pictures. A \$30 non-refundable orientation fee, which covers all Southeast orientation events, is charged to a student's account after attending Transfer Orientation.

**International Student Orientation.** International student orientation is required for all new international students, degree-seeking and exchange/visiting, prior to beginning their program at Southeast. During the program, students will take placement tests and learn about safety and security, classroom expectations, billing, and where to go for assistance with academic, health and social concerns. New International Student and Scholar Orientation is held during the week before classes begin each semester.

## ADMISSION TO ATHLETIC TRAINING EDUCATION PROGRAM

Admission to the Athletic Training Education Program (ATEP) is competitive and selective. Completion of the application standards does not guarantee admission into the ATEP. Final admission into the program rests with the decision of the ATEP Selection Committee. Enrollment in the ATEP is typically limited to twelve students per academic year. The ATEP does institute a Conditional Acceptance Policy. This policy allows a candidate to be considered for entry into the ATEP despite not meeting all requirements because of unusual and/or extenuating circumstances which may have potentially affected their application process.

Successful completion of the ATEP is necessary for the completion of the Athletic Training major. Students interested in entry into the ATEP are considered Pre-Athletic Training majors and must:

Complete the following courses with a grade "C" or better by the end of the semester of application: HL 251, HL 280, MA 134 or higher, EN 140, PY 101, BS 113, and BS 114. HL 251 and 280 must be taken through Southeast Missouri State University. HL 280 includes observation hours (non-patient care) completed under the direct supervision of an approved clinical instructor. Students will be evaluated throughout the observation hours.

1. Provide verification of a minimum cumulative grade point average (GPA) of 2.50 by the end of the semester of application.
2. Provide proof of current First Aid, CPR, and AED certification.
3. Demonstrate the ability to meet the technical stan-

dards for admission including a signed technical standards form and a current physical examination (see ATEP website for more information).

4. Provide proof of tuberculosis screening and vaccination of MMR, tetanus, Hepatitis B (or HBV declination).
5. Completion of Bloodborne Pathogen Training.
6. Demonstrate compliance with all the ATEP's policies and procedures (see ATEP website for more information).
7. Complete a formal interview with members of the ATEP Selection Committee to assess the psychosocial development of the candidate.
8. Complete an entrance written examination.
9. Submission of three letters of recommendation utilizing the form within the ATEP application.
10. Submission of the completed ATEP application.

The ATEP application is DUE on or before April 1st by noon to the ATEP Director's office located in Parker Hall 215D. Following admission into the ATEP, completion of the program requires a minimum of five consecutive semesters and an internship.

**ATEP Admissions Grievance Policy.** Students will be notified in writing by the ATEP Director regarding the admission decision. Communication regarding the decision of the Selection Committee can only occur directly with the student in question unless he/she has provided written permission to discuss the content with a third party. Students are given the opportunity to discuss the rationale of the Selection Committee with the ATEP Director. If a student is not satisfied with the explanation of the decision, he/she may request a review of the objective selection criteria by the Chair of the Department of Health, Human Performance and Recreation. An official request for review must be received in writing by the Department Chair within ten business days from the mailing date of the admission decision letter.

**ATEP Policy on Retention.** Matriculation clause: All ATEP courses must be completed in the original curriculum sequence. To advance in the course sequencing, students must earn a "C" or better in all required coursework within the major. A student failing to earn a "C" or better within the major will not matriculate into more advanced coursework until the grade is improved.

### Other Non-Academic Retention Criteria:

1. Maintaining First-Aid, CPR, and AED certification.
2. Obtain annual physical examination.
3. Demonstrating compliance with the ATEP policies

and procedures, the NATA code of Ethics, and the University's academic policies and procedures and student code of conduct.

4. Obtaining annual TB vaccinations.
5. Completing annual Bloodborne Pathogen training.
6. Continuing to meet the ATEP Technical Standards for Admission.
7. Other criteria as deemed necessary of students by the Commission on Accreditation for Athletic Training Education (CAATE).

**Additional requirements and fees:** Refer to the ATEP website for current information.

## ADMISSION TO BUSINESS ADMINISTRATION DEGREE PROGRAM

Students interested in pursuing a business degree should contact the Harrison College of Business Academic Advising Center for specific degree requirements and to complete a Declaration of Major form. Students are formally admitted to the Harrison College of Business when the following prerequisites have been met:

1. Completion of 60 semester hours.
2. Completion of: AC 221, AC 222, AD 101, BL 255, EC 215, EC 225, EN 140, MA 134, MG 252, QM 257, QM 258 and SC 105 with a grade of 'C' or better.
3. An overall cumulative grade point average (GPA) of 2.25.

Business students must be admitted to the College of Business prior to enrolling in upper division (300 level or above) business courses.

### Retention Requirements:

1. An overall cumulative GPA of 2.25.
2. A GPA of 2.25 in upper division (300 level and above) courses in the major.
3. A grade of 'C' or better in upper division core courses: MG 301, MK 301, FI 361, MI 375, QM 352, QM 358, BA 490 and the international business course.

### Graduation Requirements:

1. An overall cumulative GPA of 2.25.
2. A GPA of 2.25 in upper division (300 level and above) courses in the major.
3. A grade of 'C' or better in upper division core courses: MG 301, MK 301, FI 361, MI 375, QM 352, QM 358, BA 490 and the international business course.

Fifty percent of an individual's business degree program (60 hours) must be comprised of non-business

courses.

Fifty percent of the business hours counted toward a business degree must be taken at Southeast Missouri State University.

## ADMISSION TO DIETETICS OPTION (Human Environmental Studies Major: Dietetics Option):

The Declaration of Major does not constitute admission to the program. Students may complete the Declaration of Major form and be assigned an advisor in the department of Human Environmental Studies anytime after they have been admitted to the University and have begun attending classes.

Students wishing to be formally admitted into the Dietetics Option must meet the following admission criteria:

1. Completion of 45 semester hours with a minimum grade point average (GPA) of 3.0 overall including the following course work (or equivalent) with a minimum grade of "C": MA134; PY 101; CH 181; AD 101; EN 140; FN 235; BS 113; BS 114; Economic Systems.
2. Completion of all developmental courses (if applicable).

### Admission Procedures:

1. Each student will complete a declaration of major form. The director of the Didactic Program in Dietetics will determine if all admission criteria are met. The departmental secretary will send a letter of acceptance with copy of admission policy to successful applicants. Those individuals who do not meet the admission criteria will be notified in writing.
2. Each semester, grades will be reviewed by the DPD director. Any student failing to meet retention requirements will be notified by mail within ten days of final grade postings. Students must complete an application for reinstatement if they wish to re-take coursework that failed to meet retention requirements.

**Retention Requirements:** Students will be retained as dietetic majors providing the following retention criteria are met:

1. Completion of all required courses as outlined in the degree requirements in the Undergraduate Bulletin.
2. Maintain a cumulative GPA of 3.0 each semester and an overall GPA of 3.0 in all required coursework for the major courses—as outlined in the degree requirement in the Undergraduate Bulletin.

**Graduation Requirements:** In order to receive a verification statement for completion of the required didactic curriculum, accredited by The Academy of Nutrition and Dietetics, students must meet all requirements put forth for both admission and retention and be approved for graduation by the Registrar at Southeast Missouri State University. The student who completes this degree must additionally complete a minimum of 1200 supervised practice hours of pre-professional experience accredited by The Accreditation Council for Education in Nutrition and Dietetics.

**Admission/Retention Grievance Policy:** Any student denied admission or retention to the dietetics program will be notified in writing by the Program Director. Students are given the opportunity to discuss the rationale of the decision with the Program Director. If a student is not satisfied with the explanation, he/she may request a review of the decision by the Chair of the Department of Human Environmental Studies. An official request for review must be received by the Department Chair in writing within 10 business days from the mailing date of the denial letter.

## ADMISSION TO MASS COMMUNICATION PROGRAM OPTIONS

Any student wishing to be formally admitted into the Advertising, Multimedia Journalism, Public Relations, or Television & Film options within the Department of Mass Media must complete the Declaration of Major form and meet the following criteria:

1. Completion of a minimum 15-semester hours at Southeast Missouri State University or transferred from an accredited college or university.
2. Attain a minimum cumulative grade point average (GPA) of 2.50 on a 4.0 scale.
3. Completion of EN 100 or EN 140 with a minimum grade of "C."

### Retention Requirements:

Students must maintain the following requirements to continue with advanced coursework in the major:

1. Receive a grade of "C" or higher in all required coursework within the major. Courses may be repeated to raise grades below "C."
2. Maintain a minimum cumulative and major GPA of 2.50 on a 4.0 scale. Students must have 2.75 major GPA to qualify for an off-campus internship.
3. Maintain a minimum GPA of 2.50 for all coursework within the Mass Communication major.

A student failing to fulfill any of the above requirements will not be allowed to continue with more advanced coursework until the above criteria are met.

### Graduation Requirements:

In addition to fulfilling all university requirements for graduation, students wishing to graduate with a major in Mass Communication must satisfy the following criteria:

1. Present a minimum of "C" or higher in all required coursework within the major.
2. Present a minimum overall GPA of 2.50 on a 4.0 scale. Present a minimum departmental GPA of 2.50 on a 4.0 scale.
3. Complete 83 hours outside of the MC prefix with at least 68 of those hours selected from traditional Arts and Sciences courses.
4. Complete a minor or second major outside of Mass Communication.
5. Complete an assessment activity, MC 001 Exit Interview, in the final semester of coursework.

## ADMISSION TO NURSING PROGRAM

Students seeking a Bachelor of Science Degree in Nursing should select "pre-nursing" as their area of interest and begin taking the courses and/or University Studies (US) categories listed below. Their assigned advisor will assist in selecting the best sequencing of these courses. The academic advisor will also furnish deadlines for admission materials to be submitted to the Department of Nursing. Applicants will be required to have completed all 62 prerequisite hours or to be enrolled in any of the still remaining courses at the time of application. These 62 prerequisite hours must be completed before beginning nursing coursework.

Students with extraordinary circumstances, who have not completed all of the University Studies requirements or nursing prerequisites other than science courses, may appeal to the Department of Nursing's Student Affairs Committee for an exception to the above policy. Those students, however, must be able to complete "outstanding" courses in the summer semesters occurring within the timeframe of their curriculum (one summer for fall admissions, two summers for spring admissions). Students who have 62 prerequisite hours or are enrolled in these courses will be more competitive during the admission process.

Students must have earned a minimum cumulative grade point average (GPA) of 2.50, and a "C" or higher in required courses listed below.

An accelerated second-degree Bachelor of Science in Nursing is offered. Applicants must have a baccalau-

reate degree and also meet the following prerequisites. Further information may be found on the webpage or contact the department for detailed information regarding admission dates.

The Missouri Board of Nursing limits admissions to 35 students each semester; therefore, admission is competitive and is based on meeting all prerequisites and GPA, with required science courses given additional weight..

#### **Courses/Categories requiring a minimum grade of 'C':**

- Anatomy & Physiology I & II
- Chemistry (CH180 fulfills University Studies Physical Systems requirement)
- Logical systems (University Studies Course)
- Microbiology
- Written Expressions (University Studies Course)
- Psychological Development Across the Lifespan (PY220 fulfills University Studies Behavioral Systems requirement)
- Nutrition (FN235 fulfills University Studies Living Systems requirement)
- Required statistics course

Students may access the department web site at <http://www.semo.edu/nursing/> for complete information, or contact the Department of Nursing directly.

Students who wish to qualify for admission and progression in the nursing program must meet performance requirements, as well as academic requirements. Performance requirements include cognitive, sensory, affective, and psychomotor competencies. A student must, with or without reasonable accommodations, satisfy these requirements. Potential students may access these performance requirements via the BSN Student Handbook on the Department of Nursing web site and review "Other Specific Nursing Program Policies."

A nursing student who drops an NC or NS prefix course must also drop the course with the corresponding course number. (For example, if a student drops NC 371, s/he must also drop NS 371; if the student drops NS 371, s/he must also drop NC 371.)

A student who receives a grade below a "C" in an NC or NS prefix course may not continue in the nursing program. However, he/she may apply for readmission. Students desiring readmission must address a letter of petition to the Department of Nursing Student Affairs Committee prior to the requested date of enrollment, must meet all current criteria for admission, and must have completed requirements and prerequisites for the requested level of entry. Readmission is depen-

dent on record review, program space, and evidence that successful progress can be made toward degree completion. Students receiving a failing grade in any NC (clinical) prefix course must repeat and pass that course prior to enrolling any other nursing course, and must simultaneously audit the corresponding NS (theory) prefix course, even if a passing grade was received in the NS prefix course. If a student fails a second NC or NS prefix course, including a repeat of the previously failed course, he/she cannot continue in the nursing program and will not be eligible for admission at any time thereafter.

**Transfer Students.** Admission of transfer students is on a competitive basis. Students who seek to be admitted by transfer must meet all University and department requirements, have completed all prerequisite courses, and must supply transcripts and course descriptions of previous coursework in nursing.

**Licensure.** To write the National Council Licensure Examination for Registered Nurses (NCLEX-RN) the applicant "shall be of good moral character and have completed at least the high school course of study, or the equivalent thereof as determined by the state board of education, and have successfully completed the basic professional curriculum in an accredited school of nursing" (Section 335.046 - State of Missouri Nursing Practice Act).

Completion of the nursing education program does not guarantee eligibility to write the NCLEX. (Section 335.066, Missouri Nursing Practice Act) The full text of this section may be found on the Department of Nursing website and in the BSN Student Handbook online. The Missouri State Board of Nursing requires fingerprinting and a criminal background check for every applicant three months prior to graduation.

**Legal Limitations for Licensure.** The Missouri State Board of Nursing, based on the Missouri Nursing Practice Act, Section 335.066 may refuse to issue a license based on a criminal prosecution prior to admission or during the curricular sequence for the nursing program. Students found to be convicted of serious crimes (felonies or substance abuse) will be reviewed by the Student Affairs Committee and may be suspended from or denied admission to the nursing program.

**Registered Nurse Students.** Registered nurses who graduated from an associate degree or diploma nursing program may apply to the RN-BSN Online Program. All degree requirements including both nursing and non-nursing courses are offered online. Nursing courses that require a field experience may be completed in the student's geographical location

where they hold an RN license and have an approved RN preceptor. Guidance is given by the course instructor by communicating online with the RN student and preceptor. Qualified students who are RN's and hold a GPA of 2.50 or better are admitted every fall and spring semester until the class is full. Upon completion of NS 390 Framework for Professional Nursing an additional 38 hours of baccalaureate nursing credit are added to the RN's transcript. Both nursing and non-nursing courses completed at a prior college or university are included in the total number of credits earned.

Registered nurse students should contact the Department of Nursing for specific curriculum information or access <http://www.semo.edu/nursing/rn/index.htm>.

## ADMISSION TO SOCIAL WORK PROGRAM

Students wishing to be formally admitted into the social work major must meet the following admission criteria:

1. Completion of 45 semester hours with a minimum cumulative grade point average (GPA) of 2.25 overall.
2. Completion of the following coursework with a minimum grade of 'C': PY 101; SW 110\*; SW 201\*; SW 207\*; SW 221\*; SW 222; SW 242\*.
3. Completion of Economic Systems, Living Systems, Political Systems, Written Expression, CL001 and CL002.
4. Completion of all developmental courses (if applicable).

Once students are formally admitted to the program they are eligible to enroll in the following courses: SW 307, SW 308, SW 310, SW 321, SW 322, SW 323, SW 342, SW 449, SW 450.

\*SW 110, SW 201, SW 207, SW 221 and SW 242 may NOT be repeated for admission to the social work major without written permission from the student's faculty advisor and the chair of the Department of Social Work.

### Retention Requirements:

Students will be retained as social work majors providing the following retention criteria are met:

1. Completion of the following foundation courses with a minimum grade of 'C': SW 307; SW 308; SW 310; SW 321; SW 322; SW 323; SW 342.
2. Courses may be repeated to raise grades below 'C' with written approval from the student's faculty advisor and the chair.

3. Maintain a cumulative GPA of 2.25.
4. Once a student's cumulative GPA has fallen below 2.25, the student will not be allowed to enroll in any remaining social work courses until the GPA requirement is met.

### Graduation Requirements:

In addition to fulfilling all University requirements for graduation social work majors must satisfy the following criteria:

1. A cumulative GPA of 2.25.
2. Completion of integrated seminar and field education, i.e., SW 449 with minimum grade of 'C'.
3. Completion of 448 hours of field education, i.e., SW 450 (Credit/No Credit).

## ADMISSION TO SPORT MANAGEMENT MAJOR

Students interested in the professions in sport management may contact the Department of Health, Human Performance and Recreation to declare the pre-major in Sport Management anytime after being admitted to the University. Upon completion of the declaration of major form, each student will be assigned an advisor within the department.

The declaration of major form does not constitute formal admission to the Sport Management program. Students are formally admitted to the major upon submission of the application to the director of the Sport Management program. The director of the Sport Management program will review and verify the student meets the following prerequisites:

1. Present an overall minimum grade point average (GPA) of 2.50 on a 4.0 scale.
2. Complete a minimum 30 semester degree credit hours.
3. Complete the following courses with a grade of "C" or better: AD 101, MA 134, SC 105, EN 140 and SM 220.

The departmental administrative assistant will send a letter of acceptance with copy of admission policy to successful applicants. Those individuals who do not meet the admission criteria will be notified in writing.

**Retention Requirements:** Students will be retained as Sport Management majors providing the following retention criteria are met:

1. Maintain a minimum overall GPA of 2.50.
2. Maintain a minimum major GPA of 2.50 with a "C" or higher in every course in the Sport Management major and Business Administration minor as outlined in the degree requirements in



the Undergraduate BULLETIN. Courses may be repeated to raise grades below “C.”

3. Each semester, grades will be reviewed by the Sport Management director. Any student failing to meet retention requirements will be notified by mail within ten business days of final grade postings. Students must complete an application for reinstatement if they wish to re-take coursework that failed to meet retention requirements. A student failing to fulfill any of the above requirements will not be allowed to continue with more advanced coursework until the above criteria are met.

**Graduation Requirements:** In addition to fulfilling all University requirements for graduation, students wishing to graduate with a major in Sport Management must satisfy the following criteria.

1. Present a minimum overall GPA of 2.50.
2. Present a minimum major GPA of 2.50 with a “C” or higher in every course in the Sport Management major and Business Administration minor as outlined in the degree requirements in the Undergraduate BULLETIN.
3. Completion of required experiential learning opportunities: SM 370 Sport Management Practicum (minimum of 80 clock hours) and SM 470 Sport Management internship (minimum of 480 clock hours) with the approval and direct supervision of the Department of Health, Human Performance and Recreation.
4. Completion of the exit survey at the end of SM 470.
5. Submission of a digital portfolio in the final semester of course work.

## **ADMISSION TO TEACHER EDUCATION PROGRAMS**

To be eligible for credit in professional education courses applied toward an Education degree (BSE, BSFCSE, BME) or a teaching certificate, students must apply to and be approved by the Committee on Admission to and Retention in Teacher Education Programs. Students should apply for admission to teacher education immediately prior to enrollment in Block II in Scully 309. The student may not take Elementary Block II, Secondary Block II, or succeeding professional education courses without being admitted to teacher education. The Committee on Admission to and Retention in Teacher Education Programs is required to certify that every teacher candidate meets certain specified criteria which satisfy accrediting agencies, regulations, and state law.

To be admitted to the program, the student must:

1. have a 2.50 cumulative grade point average (GPA);
2. attain 57 hours
3. complete EN 140 with a minimum grade of ‘C’ (or an approved equivalent of Rhetoric and Critical Thinking);
4. not be on disciplinary probation nor have been convicted of a felony;
5. completion of Introduction to Teaching/Block I (ED 250 and ED 251);
6. meet the following testing requirements (C-BASE and ACT requirements are waived for students with a prior four year degree from an accredited institution):
  - A. C-BASE (College Basic Academic Subjects Examination) score of 265 on all sections (including writing) AND any ACT Assessment or SAT (Scholastic Aptitude Test) score;

OR

  - B. C-BASE (College Basic Academic Subjects Examination) score of 235 or higher on all sections AND an ACT Assessment of 22 or SAT (Scholastic Aptitude Test) score at or above the 66th percentile.

OR

  - C. 3.00 cumulative GPA and 235 or higher on each section of the C-BASE.

After admission, students must meet the requirements for retention in teacher education programs. A background check is required for each field component of the teacher education program. Students who earn lower than a “C” in any professional education course in two attempts will not be permitted to continue in the Teacher Education Program. A grade of ‘C’ or better must be obtained in all Block II classes before progressing to Block III or the next required professional block. The requirements for retention and for exiting the program have been published on the College of Education Advising website, which may be accessed at <http://www.semo.edu/cea>. Regardless of printed program requirements, any changes or additions mandated by the State of Missouri will become effective on the date cited by the regulations.

Students transferring into education programs need to be aware of the need to be eligible for admission to teacher education immediately upon transfer and should contact the College of Education Advising Office, Scully Building, Room 309, (573) 651-2128, well in advance of the time of transfer. It is especially important that

transfer students in the College of Education have ACT Assessment scores on file with the University's Office of Admissions before enrolling in classes. If the ACT Assessment was taken in high school, students should verify that a high school transcript containing ACT Assessment scores has been forwarded to the Office of Admissions, (573) 651-2590.

**Missouri Teacher Certification Requirements:**

Upon completion of Southeast's Teacher Education Program individuals are eligible to be recommended for a Missouri Teaching Certificate. The certification process includes the requirements of:

1. receiving a passing score on the appropriate Praxis II exam as required by the Missouri Department of Elementary and Secondary Education;
2. an FBI background clearance no earlier than one year prior to the date of the application for certification.

Certification applications should be submitted to the Southeast Certification Office, Scully Hall, Room 304A, ms 5500.

## ADMISSION TO THEATRE AND DANCE PROGRAM

Students interested in any of the professions associated with the Bachelor of Fine Arts in Performing Arts or the Bachelor of Arts in Theatre and Dance programs must first declare a major in Theatre and Dance. Upon completion of the declaration of major form, each student will be assigned an advisor within the department. The declaration of major form does not constitute admission into either the BFA or BA degree program. Students are formally admitted to the degree program after they have successfully completed 15 credit hours while enrolled as a Theatre and Dance major.

**For formal admittance into the BA in Theatre and Dance degree program, each student must:**

1. have earned a minimum 2.50 GPA within the Theatre and Dance Major and a minimum overall 2.0 GPA.
2. have earned a "C" or better in TH/DA 105/305 Rehearsal and Production class.
3. submit an application petitioning for admittance into the program.

**For continuance in the BA degree program, each BA candidate must:**

1. earn a "C" or better in all Theatre and Dance courses.
2. earn a "C" or better in all TH/DA 105/305 Rehearsal and Production classes.

3. maintain a minimum 2.50 GPA within the Theatre and Dance major and a minimum overall 2.0 GPA.

**Dismissal from the BA degree program:** Any BA candidate who does not meet the requirements for continuance in the BA degree program will be placed on probation for one calendar year. If in that time, the candidate does not improve his or her grades to meet minimum BA requirements, the student will be dismissed from the BA program.

Following dismissal from the BA program, the student may petition to be readmitted into the program the following academic year, assuming grades have been raised to meet minimum requirements.

**For formal admittance into the BFA in Performing Arts degree program, each student must:**

1. have earned a minimum 3.0 GPA within the Theatre and Dance Major and a minimum overall 2.50 GPA.
2. have earned a "B" or better in TH/DA 105/305 Rehearsal and Production class.
3. audition or present a portfolio at the BFA auditions or portfolio presentation, conducted each spring semester.
4. demonstrate potential to succeed professionally within the selected major through the audition or presentation process which is approved by the majority of eligible participating Theatre and Dance faculty using the appropriate departmental evaluation rubric.

**For continuance in the BFA degree program, each BFA Candidate must:**

1. earn a "C" or better in all Theatre and Dance courses.
2. earn a "B" or better in all TH/DA 105/305 Rehearsal and Production classes.
3. maintain a minimum 3.0 GPA within the Theatre and Dance major and a minimum overall 2.50 GPA.
4. demonstrate excellence in the area of professional development by regular and sustained participation in the major area within the department, while continuing to pursue outside professional employment, internships, summer intensives, master classes, etc.
5. successfully complete an annual jury which includes:
  - a. participation in a principal role in a faculty-directed/choreographed Mainstage production (i.e., onstage for BFA Acting, Dance, or Musical Theatre and backstage for BFA Design).

**NOTE:** If a BFA Candidate in Acting, Dance, or Musical Theatre is not cast in any spring Mainstage production, the student must participate in:

1. Spring Showcase, in conjunction with Directing II (no longer than 8 minutes if not directed by a Directing II student); OR
  2. Last Chance to Dance Informal Concert (no longer than 8 minutes)
- b. an oral review with faculty from major area and a presentation of appropriate printed or electronic materials (i.e., headshot and resume for BFA Acting and Musical Theatre, full-body shot and resume for BFA Dance, and a resume and portfolio for BFA Design).

**Dismissal from the BFA degree program:** Any BFA candidate who does not meet the requirements for continuance in the BFA degree program will be placed on probation for one calendar year. If in that time, the candidate does not improve his or her grades to meet minimum BFA requirements, the student will be dismissed from the BFA program. (NOTE: BFA Candidates will be allowed probation no more than one time.)

## RETENTION/GRADUATION REQUIREMENTS FOR THE COMMUNICATION DISORDERS PROGRAM

Students interested in the professions of speech-language pathology or audiology may contact the Communication Disorders Department to declare the major in Communication Disorders anytime after being admitted to the University. Upon completion of the declaration of major form, each student will be assigned an advisor within the department.

**Retention Requirements:** Students will be retained as communication disorders majors providing the following retention criteria are met:

1. A minimum GPA of 2.75 in the major courses must be maintained, with a grade of 'C' or better in all major courses.
2. A student who completes a semester with a major GPA below 2.75 will be placed on probation within the major for the next semester of enrollment. If a major GPA of 2.75 is not achieved by the end of the probationary semester, the student will not be allowed to continue in the Communication Disorders major.

**Retention Grievance Policy:** Any student who is not retained in the Communication Disorders major

will be notified by the Chairperson of the Department of Communication Disorders. The student will be given the opportunity to meet with the Department Chairperson to discuss the rationale of the decision. An official request for review of the decision must be received by the Chairperson within 10 business days of the mailing date of the denial letter.

**Graduation Requirements:** In addition to fulfilling all University requirements for graduation, students wishing to graduate with a major in Communication Disorders must satisfy the following criteria:

1. Present a minimum overall GPA of 2.50.
2. Present a minimum major GPA of 2.75.

## STUDENT ACCOUNTS

**Fee/Policy Changes.** All fees and financial policies are subject to change by the Board of Regents without prior notice. Please visit <http://www.semo.edu/sfs/options/htm> for the current semester fees and policies.

**Application Fee.** All new students must submit a non-refundable \$30 (domestic students) or \$40 (international students) processing fee with the admission application. Returning students must submit a \$15 non-refundable processing fee with the returning student application.

**Fee Schedule.** At the time of printing, the Board of Regents had not yet established fees (Incidental, General, and Special Course Fees) for the 2013-2014 school year. Once established, specific information regarding these fees will be available online at [www.semo.edu/sfs/fee-schedule.htm](http://www.semo.edu/sfs/fee-schedule.htm) or by contacting Student Financial Services at (573) 651-2253.

**Incidental Fees.** Incidental fees (based on residency status) are charged to cover course expenses not funded by the State of Missouri.

**Special Course Fees.** Special course fees are assessed for certain courses to cover the costs of consumable supplies, specialized equipment, and/or other expenses unique to the course. These fees are published and available online at [www.semo.edu/sfs/fee-schedule.htm](http://www.semo.edu/sfs/fee-schedule.htm).

**General Fees.** General fees are assessed for all courses and specifically allocated as recommended by Student Government and approved by the Board of Regents. The allocations include, but are not limited to, maintenance and repair, technology and student activities.

**Late Enrollment Fee.** Students enrolling on or after the first day of classes for the semester are subject to a \$15 late enrollment fee.

**Pre-Registration Late Payment Fee.** A \$25 late

payment fee is charged for students enrolled during the pre-registration period who do not pay by the established payment due date.

**Late Payment Fee for Non-Preregistered Students.** A \$15 late payment fee is charged for students enrolled after the pre-registration period that do not pay by the established payment due date. (Note: Students enrolled after the pre-registration period will not receive a billing statement but will be sent an e-mail reminder to their Southeast e-mail account.)

**Textbook Rental/Purchase.** Undergraduates may rent textbooks at a reduced fee per course for the 2013-2014 academic year. Graduate students are required to purchase textbooks.

**Graduation Fee.** A \$35 graduation fee is charged to each student who applies for a degree.

**Returned Check/Web Payment Fee.** All checks payable to the University are subject to a \$20 Returned Check/Web Payment fee. Students who have checks returned may lose check writing privileges and be subject to disciplinary action. Personal checks will not be accepted to redeem payment of returned checks. Returned checks must be paid by cash, money order, certified check, Visa, MasterCard, or Discover.

**Housing Fees.** Room and board fees vary depending on the accommodations and meal plan chosen. Contact the Office of Residence Life at (573) 651-2274 or <http://www.semo.edu/housing/rates.htm> for more information on the variety of options in living arrangements and meal plans.

**Payment of Account Balances.** Students are required to pay their account balances by published due dates using one of the following methods:

1. Payment in full;
2. Deferral by confirmed financial aid;
3. Enrollment in and first payment of an installment payment plan.

A statement is mailed monthly to each individual with a balance due the University. Students must pay all outstanding balances before being able to enroll, obtain a class schedule, receive a transcript or receive other University services. Students are obligated to promptly pay all charges owed, including all attorney fees, collection agency referral fees, and other collection costs to collect unpaid balances (not to exceed 50 percent). Payments must be receipted by the Cashier's Office by the end of the business day on the payment due date. Past due balances may result in late payment fees and possible class cancellation and housing contract cancellation. More information is available at <http://www.semo.edu/sfs/options.htm>.

**Installment Payment Plan.** Southeast offers several Installment Payment Plan (IPP) options.

Payment Option	Non-Refundable Enrollment Fee
2 Payments	\$15.00
3 Payments	\$20.00
4 Payments	\$25.00

Enrollment in the IPP is required for each semester the student wishes to utilize this payment option. Students may enroll in one of the payment options:

1. in person at the Cashier's Office;
2. by indicating their choice on their Statement of Account and Class Schedule form and returning the form, along with appropriate payment, to the Cashier's Office;
3. by phone (payment via MasterCard, Visa or Discover) to Student Financial Services; or
4. on-line via the Southeast Portal.

All IPP's must be completed (including sufficient payment) by the established payment due date in order to avoid late fees and/or possible class cancellation.

The IPP will calculate all current semester charges for the installment amounts. Installment amounts will vary from month to month based on actual charges the student incurs prior to each payment due date. The first payment of each plan must include the first installment, plus associated costs to enroll in the specific plan, plus any prior semester charges. Past-due charges cannot be placed on the IPP but must be paid on or before the time the IPP enrollment is submitted.

Please visit our website at <http://www.semo.edu/cs/options.htm> for additional information regarding the different payment options we currently offer, or contact Student Financial Services at (573) 651-2253 with any questions.

**Financial Probation/Suspension/Withdrawal.** If a student's account is past due, the student may be placed on Financial Probation. When, after University efforts to notify the student of Financial Probation, the student does not take appropriate action to pay delinquent charges, the student may be placed on Financial Suspension. Once placed on Financial Suspension, the student is ineligible to attend classes, take examinations, receive grades, or participate in University-sanctioned events.

If the delinquent charges that caused the Financial Suspension are not resolved by a specific date established by the Student Financial Services Office, the student will be administratively withdrawn from the University. In this instance, the student will not receive any academic credit for the term although all charges remain due to the University.

**Refunds.** Students can withdraw from the Univer-

sity or drop specific classes using the web registration system until the published “Last Day to Drop a Class,” after which, students must contact the Office of the Registrar. The effective date of the withdrawal/dropped class is the date of deletion of the class(es) from the student’s record.

For students withdrawing/canceling all classes, refunds for credit balances will be processed approximately three weeks after the withdrawal is processed. Students must complete a “Request for Refund of Credit Balance” form (available in Student Financial Services) in order to initiate the process of a refund. All balances due the University will be deducted before a refund is issued.

The University is required by Federal regulations to return all or a portion of the federal funds received for students who withdraw completely after receiving Title IV financial aid. (i.e. federal student loans, Pell Grants, Perkins Loans, etc),based on the University’s last documented date of class attendance. In some cases the return of those funds may result in an unpaid balance on the student’s account for which the student is responsible.

Should you have questions regarding the return of Federal Title IV funds from your account, contact Student Financial Services at (573) 651-2253.

Based on the withdrawal/dropped class effective date, the following refund schedules for fees will apply:

**Sixteen-week Sessions (Fall/Spring)Percentage of Fee Refunded**

Through the first week of the semester	100%
Second week of the semester	70%
Third week of the semester	60%
Fourth week of the semester	50%
After the fourth week of the semester	0%

**Six and Eight Week Sessions Percentage of (Fall/Spring/Summer) Fee Refunded**

Through the first Friday of the session	100%
Through the first day of the second week of the session	70%
Remainder of second week of the session	50%
After the second week of the session	0%

**Four-Week Sessions Percentage of Fee (Interession/Summer) Refunded**

Through the first two days of the session	100%
Remainder of the first week of the session	50%
After the first week of the session	0%

For additional information regarding refunds and

withdrawals, please visit <http://www.semo.edu/sfs/balances.htm>

Refund appeals for exceptional circumstances must be directed in writing to Student Financial Services; attn: Student Accounts. The letter should accompany the “Appeal Form for Incidental, General and Course Fees of Dropped Classes” (available in Student Financial Services). This appeal must be submitted prior to the beginning of the next academic term, e.g., fall appeal must be filed by the beginning of the spring semester.

**Direct Deposit Program.** All credit balance refunds on student accounts are eligible for direct deposit. A refund resulting from excess financial aid or overpayment of the student account will be transferred automatically to the student’s checking account. The direct deposit bank account information will remain on the student’s account until it is removed or for approximately one year after the last date of attendance. If there is a change in account numbers or the account is closed, the student must update/stop the direct deposit bank account information through the Account Summary on the Southeast Portal (<http://portal.semo.edu>).

**Authorize Access to Your Account.** Students may grant access to their online account to multiple users—parents, spouse, guardian, etc.—through the Southeast Portal ([portal.semo.edu](http://portal.semo.edu)) Account Summary access. Options to edit or remove authorization are also available.

**ACADEMIC POLICIES AND PROCEDURES**

**ABSENCE FROM CLASS**

Students are expected to attend all classes and to complete all assignments for courses in which they are enrolled. An absence does not relieve the student of the responsibility to complete all assignments. If an absence is associated with a university-sanctioned activity, the instructor will provide an opportunity for assignment make-up. However, it is the instructor’s decision to provide, or not to provide, make-up work related to absences for any other reason.

A student not present for class during the entire initial week of a scheduled course may be removed from the course roster unless the student notifies the instructor by the end of the first week of an intention to attend the class. Questions regarding the removal process should be directed to the Registrar.

Attendance is required at all class meetings of developmental courses. (See Developmental Courses.)

## ACADEMIC FRESH START POLICY

The Academic Fresh Start policy is an appeals procedure that allows a student returning to Southeast Missouri State University after a prolonged absence to request academic forgiveness of prior cumulative grade point average (GPA). The policy is designed for undergraduate students who have gained maturity outside of higher education and have demonstrated acceptable academic performance following their return. The granting of an Academic Fresh Start is subject to the following conditions:

1. Academic Fresh Start applies only to returning undergraduate students who had previously completed 30 or fewer semester hours and have had an absence of at least three calendar years from any post-secondary institution.
2. Academic Fresh Start will affect all courses (including transfer credit) taken prior to the three-year absence. It may be elected only one time and is irrevocable.
3. A minimum of 12 semester hours of graded courses with a GPA of 2.0 must be completed after returning to Southeast before an Academic Fresh Start may be requested. For purposes of consideration for Academic Fresh Start, degree and non-degree credit courses will be used to compute GPA. No requests will be considered after the student's first application for a baccalaureate degree.
4. The student must submit a written request to the Office of the Registrar. The request must have written approval of the student's advisor or designee.
5. Upon the approval of the University Registrar, the student will be granted an Academic Fresh Start. The student's permanent academic record will remain a record of all coursework completed, including transfer credit recorded on the permanent academic record. Courses taken prior to the three-year absence will not be used in computing GPA and CANNOT be used to meet any requirements (e.g., degree, prerequisite, certification).

**NOTE:** Academic Fresh Start is a policy of Southeast Missouri State University and may not be recognized by outside agencies or other institutions.

## ACADEMIC HONESTY

Academic honesty is one of the most important qualities influencing the character and vitality of an educational institution. Academic misconduct or dishonesty is inconsistent with membership in an academic community and cannot be accepted. Violations of aca-

demically honest represent a serious breach of discipline and may be considered grounds for disciplinary action, including dismissal from the University.

Academic dishonesty is defined to include those acts which would deceive, cheat, or defraud so as to promote or enhance one's scholastic record. Knowingly or actively assisting any person in the commission of an above-mentioned act is also academic dishonesty.

Students are responsible for upholding the principles of academic honesty in accordance with the "University Statement of Student Rights" found in the STUDENT HANDBOOK. The University requires that all assignments submitted to faculty members by students be the work of the individual student submitting the work. An exception would be group projects assigned by the instructor. In this situation, the work must be that of the group. Academic dishonesty includes:

**Plagiarism.** In speaking or writing, plagiarism is the act of passing someone else's work off as one's own. In addition, plagiarism is defined as using the essential style and manner of expression of a source as if it were one's own. If there is any doubt, the student should consult his/her instructor or any manual of term paper or report writing. Violations of academic honesty include:

1. Presenting the exact words of a source without quotation marks;
2. Using another student's computer source code or algorithm or copying a laboratory report; or
3. Presenting information, judgments, ideas, or facts summarized from a source without giving credit.

**Cheating.** Cheating includes using or relying on the work of someone else in an inappropriate manner. It includes, but is not limited to, those activities where a student:

1. Obtains or attempts to obtain unauthorized knowledge of an examination's contents prior to the time of that examination.
2. Copies another student's work or intentionally allows others to copy assignments, examinations, source codes or designs;
3. Works in a group when she/he has been told to work individually;
4. Uses unauthorized reference material during an examination; or
5. Have someone else take an examination or takes the examination for another.

**General Responsibilities for Academic Honesty.** It is the University's responsibility to inform both students and faculty of their rights and responsibilities regarding such important matters as cheating and plagiarism. Most of what is considered unethical or dishonest

behavior can be avoided if faculty and students clearly understand what constitutes such practices and their consequences. The University community should also be aware of the procedures to be followed should a breach of academic honesty occur.

The faculty member is responsible for clarification to his/her class of those standards of honesty for class assignments or functions where such standards may be unclear or when such standards vary from the accepted norm. Further, some faculty may choose to utilize preventive measures (multiple exams, alternate seating, etc.) to help insure the maintenance of academic honesty. However, the use of such measures is the prerogative of the individual faculty member and is not a responsibility or requirement of faculty in general.

The fundamental responsibility for the maintenance of honesty standards rests upon the student. It is the student's responsibility to be familiar with the University policy on academic honesty and to uphold standards of academic honesty at all times in all situations.

**Protocol for Adjudicating Alleged Violations of Academic Honesty.** Faculty members who discover evidence of academic dishonesty should contact the student within five business days of discovering the alleged dishonesty to arrange to meet and discuss the allegation. Prior to this meeting the faculty member may consult with the Department Chairperson, the appropriate Dean, and the Office of Judicial Affairs. The following sections describe the procedures to be adhered to in each of the listed instances: the student acknowledges the violation, the student denies the violation, and the appeals process. If the faculty member is the Department Chairperson, a departmental designee will assume the Department Chairperson's role in this protocol and references to the Department Chairperson should be read as departmental designee. The procedures below should be followed with online, ITV or face-to-face classes.

**I. Informal Resolution**

A. The Student Acknowledges the Violation

The faculty member will meet with the student suspected of engaging in academic dishonesty. Faculty for online courses will contact students via email with copies of the assignment under review attached. If the student acknowledges the act of academic dishonesty, the faculty member will resolve the issue informally or move to the first step of the formal process (Section II A). Students enrolled in ITV or online courses who fail to respond to electronic correspondence from the faculty within 5 business days will either receive academic sanctions or be referred for a formal hearing.

The faculty member has the discretion to determine the course of action after conferring with the student and may either excuse the student based on the facts or impose an appropriate sanction. If the faculty member considers the student's actions not to be an egregious violation of the academic honesty policy or his/her action resolves the matter, then the matter is resolved.

In imposing a sanction or sanctions, faculty members must adhere to the grade sanction policy, if any, as described in the faculty member's course syllabus. A faculty member's grade sanction policy may not include permanent removal of the student from the course or suspension or expulsion from the University. If a faculty member's course syllabus does not include a grade sanction policy, a faculty member may impose one or more of the following sanctions: require the student to redo the work, fail the student on the work, or require the student to receive additional instruction as provided by the University Library, Writing Center, or other University resources.

B. The Student Does Not Acknowledge the Violation or Does Not Accept Faculty's Sanctions

If the student does not acknowledge the violation or believes the faculty's sanctions are excessive, he/she can request a formal hearing.

**II. Formal Resolution.**

It is the faculty member's discretion to determine whether the violation warrants referral to the Department Chairperson for judicial action.

A. Student Acknowledges the Violation and Faculty Refers for Judicial Action

1. If the faculty member believes that the violation warrants judicial action, notification should be provided to the student and the faculty member's chairperson within five business days following the initial faculty-student discussion. The Department Chairperson shall submit written notification (utilizing the approved form) to the appropriate Dean and the Judicial Coordinator with a copy to the student, within five (5) days of receiving the faculty notification.
2. Within five business days after receiving notification from the Department Chairperson, the Judicial Coordinator will schedule a judicial conference to address the charge (assign sanctions) of academic dishonesty. The Judicial Coordinator will immediately initiate written contact with the student enrolled in online or ITV courses per electronic correspondence.

3. In addition to being required to complete the sanction or sanctions imposed by the faculty member in accordance with the guidelines in Section I A, the student will be placed on Disciplinary Probation at least through the next semester in which the student is enrolled at Southeast Missouri State University. If the student is not in good disciplinary standing, the Judicial Coordinator will follow the Code of Student Conduct to determine the appropriate disciplinary sanction.
4. In addition to the original faculty sanctions, the Chair can impose additional sanctions in accordance with the guidelines in Section I A.
5. The Department Chair may recommend failing the course, suspension or expulsion if he/she believes the incident warrants more severe action than Disciplinary Probation. These recommendations, along with supporting documentation, will be shared in writing with the appropriate Dean and Judicial Coordinator (with a copy to the Dean of Students). The Judicial Coordinator will review documentation, meet with the student, and impose sanctions as warranted.

**B. The Student Denies the Violation**

In cases of alleged academic dishonesty where facts are disputed or denied by the student, the following procedures will be completed.

1. Hearing with Department Chair
  - a. The faculty member will forward a written summary within five days of the initial discussion with the student to the Department Chairperson. This summary must contain copies of all relevant materials and the names of any witnesses. Student access to information about the alleged incident will be determined in accordance with the guidelines published in the Code of Student Conduct.
  - b. Within five business days after receiving the written summary of the incident from the faculty member, the Department Chairperson will contact the faculty member and the student to arrange a formal hearing. The formal hearing will be conducted within two weeks of notification. The Department Chairperson will also notify the Judicial Coordinator of the formal hearing as soon as it is scheduled.

For online or ITV courses, the Department Chairperson will notify the student of the

formal hearing via email. The student will be given five (5) business days to respond to the Department Chairperson's notification.

- c. The Judicial Coordinator will immediately initiate written contact the student to review the student's rights in the judicial process, the allegations against the student, and the hearing procedures. The Judicial Coordinator will inform the student that he or she may select a person of the student's choosing to accompany him or her to the formal hearing. Such a person may act only in an advisory capacity during the formal hearing. Students in online or ITV courses may have this advisory person review the evidence and the student's response.
- d. The Department Chairperson shall consult with the Judicial Coordinator or the Dean of Students regarding the student's due process rights before proceeding with the formal hearing.

The hearing will be conducted by the Department Chairperson in accordance with the standards provided in the University's Code of Student Conduct. For students enrolled in online or ITV courses, the Department Chair will send the evidence to the student electronically. The student will be given five (5) business days to respond to the email. The Department Chair will review the evidence presented by the faculty and the student's response.

After the hearing (or review of evidence and online student response), the Department Chairperson will submit written notification of the result of the formal hearing to the appropriate Dean and the Judicial Coordinator with a copy to the student within five business days.

- e. If the student is found not in violation of the academic honesty policy, then the case will be dismissed.
- f. If the student is found in violation of the academic honesty policy, then the student will be required to complete the sanction or sanctions imposed by the faculty member in accordance with the guidelines in Section I A.
- g. The Department Chair will refer the student to the Judicial Coordinator who will place the student on disciplinary probation at least through the next semester in which the student is enrolled at Southeast Missouri State University. If the student is not in good disciplinary standing, the Judicial Coordinator will follow the Code of Student Conduct to determine the



- appropriate disciplinary sanction.
- h. In addition to the original faculty sanctions, the Chair can impose additional sanctions in accordance with the guidelines in Section I A.
  - i. The Department Chair may recommend failing the course, suspension, dismissal or expulsion if he/she believes the incident warrants more severe action than disciplinary probation. These recommendations, along with supporting documentation, will be shared in writing with the appropriate Dean and Judicial Coordinator (with a copy to Dean of Students). The Judicial Coordinator will review documentation, meet with the student, and impose sanctions as warranted.

### III. The Appeals Process

Either the student or the faculty member may appeal the result of the formal hearing. An appeal must be made within five business days after the decision is rendered. Appeals must be in writing through e-mail, local mail or personal delivery. There are two levels of the appeals process. The All University Judicial Board is the first level and the Provost is the second and final level of appeal. At each level, an appealed case merits being heard based on the following conditions.

- A. An excessive sanction when compared with previous sanctions for similar violations under similar circumstances. \*
- B. The discovery of significant new information relevant to the case.
- C. Procedural error regarding the student's rights involving error in the administration of judicial procedures by the faculty, Department Chair or Judicial Coordinator.

The appeals process is not for retrying or rehearing a case. Decisions made during the appeals process can result in one of the following.

- A. The sanction being altered based on a finding that the sanction is not consistent with past practice.
- B. A new hearing being granted based on new information.
- C. A new hearing being granted because the Protocol for Adjudicating Alleged Violations of Academic Honesty was not applied appropriately.

No grade penalty should be assigned by the faculty member until the judicial process determines that an act of academic dishonesty has occurred. If the charges cannot be resolved prior to the end of the current semester, a grade of 'I' should be assigned pending

the outcome of the hearing. The 'I' will remain on the student's transcript until the charges are resolved. If the charges are still not resolved before the time frame for the 'I' expires, the faculty member will request from the Registrar's Office an extension of the grade of 'I'. The faculty member and the Department Chair will be notified of the outcome of the disciplinary case in order to assign a grade for the course. If the student is found not to be in violation of the Academic Honesty Policy, neither the faculty member nor any other member of the University community may take any other action against the student.

\*Specific sanctions in syllabus are not subject to appeal.

### ACADEMIC STANDING

Any time a student's cumulative grade point average (GPA) is below 2.0, the student will be placed on academic probation and enrollment will be limited to 12 hours per semester. The student will remain on academic probation and must earn a semester GPA of 2.0 in each subsequent semester until the cumulative GPA is at least 2.0. A student on probation who earns a semester GPA of less than 2.0 will be subject to suspension.

Students who are subject to suspension will have their records reviewed. The following actions may be taken: (1) conditions will be specified for the student's continued probation; or (2) the suspension of the student will be confirmed.

A student who has been suspended may appeal in writing to the University Student Affairs Committee. The appeal must be made by the date stated in the student's notification of suspension. Notification of suspension will be sent to the student's permanent address. Students are obligated to have a current permanent address on file with the Office of the Registrar.

The Committee may take the following actions: (1) specify conditions for the student's continued probation; or (2) confirm the suspension of the student.

Students suspended at the end of a spring semester will not be allowed to enroll until the next spring semester; students suspended at the end of a fall semester will not be allowed to enroll until the next summer semester; students suspended at the end of a summer semester will not be allowed to enroll until the next spring semester.

Students who have been academically suspended more than once will be disqualified from attending the University for at least one semester. They may petition the Committee for readmission to the University after a

minimum one-semester absence. The Committee may take the following actions: (1) specify conditions for the readmission of the student; or (2) deny readmission of the student to the University.

In order to enroll, students who have been suspended must inform the Office of the Registrar of their intention to return.

## **ADVANCED PLACEMENT**

Previous achievement may be formally established by examination by furnishing documented evidence that the equivalent of a required course has been completed. Detailed information about advanced placement may be obtained from Testing Services, (573) 651-2836. (See Credit by Examination)

## **ADVISING**

Each student is assigned an advisor. Each school or college has an advising office which coordinates advising in that school or college. Undeclared first-year students are advised by the University Studies Advising Center. Students who have declared a major are advised by faculty in their major departments. Questions regarding advising or declaration of major should be directed to the appropriate school or college advising office.

### **Donald L. Harrison College of Business Advising**

Dempster Hall, room 123  
(573) 651-5090

### **College of Education Advising**

Scully Building, room 309  
(573) 651-2128

### **Collaborative Advising Center**

University Center, room 209  
(573) 651-2007

#### **College of Health & Human Services**

#### **College of Liberal Arts**

#### **School of University Studies**

### **College of Science, Technology & Agriculture Advising**

Seabaugh Polytechnic Building, room 118  
(573) 651-2173  
(573) 651-5930

### **Southeast Online Programs**

Kent Library, room 317  
(573) 651-2766

## **BULLETIN REQUIREMENTS/STUDENT RESPONSIBILITY**

Students are responsible for knowing and meeting graduation requirements stated in the BULLETIN current at the time of their initial enrollment as freshmen. Transfers from colleges and universities with which Southeast has an articulation agreement are permitted to complete degree requirements in effect in the BULLETIN at the time of their initial enrollment at that institution. Students may choose to be graduated under degree requirements stated in the latest BULLETIN. Changes in degree requirements, including majors and minors, do not apply unless students have interrupted their enrollment for at least one calendar year. In this event, the BULLETIN in effect at the time of readmission is used to determine degree requirements. The University reserves the right to modify or change any academic program subject to any limitation imposed by law. Changes in prerequisites are effective immediately.

The BULLETIN is the only OFFICIAL statement of requirements for each degree. Students are solely responsible for meeting these requirements.

No course may be substituted to meet degree requirements except with the approval of the Registrar and the appropriate department chairperson. To avoid any possible delay in graduation, students should obtain written permission prior to scheduling a course that they believe may be substituted for a required course.

## **CANCELLATION OF ENROLLMENT**

(See Enrollment)

## **CANDIDATES FOR TWO DEGREES**

Students may earn two degrees by completing the requirements for both programs. Both degree/major/minor combinations will appear on the official transcript. Where applicable, courses will fulfill requirements on both degree programs, e.g., University Studies.

## **CHANGE OF GRADE**

(See Grades)

## **CHANGE OF MAJOR**

(see Declaration of Major)

## **CHANGE OF SCHEDULE**

(See Enrollment)

## CLASSIFICATION OF STUDENTS

Classification of students is determined by the number of semester hours earned. Degree credit courses and developmental courses are used to determine a student's classification as freshman, sophomore, junior and senior.

**Freshman.** Students who have completed fewer than 30 semester hours are classified as freshmen. Students with fewer than 15 semester hours completed may enroll in courses numbered 000-199. Students with 15-29 semester hours completed may take courses numbered 000-299.

**Sophomore.** Students who have earned 30-59 semester hours are sophomores. Students who have completed from 30-44 semester hours may enroll in courses numbered 000-299. Students with at least 45 semester hours completed may enroll in courses numbered 000-599.

**Junior.** Students with 60-89 semester hours completed are juniors. They may enroll in courses numbered 000-599.

**Senior.** Students with 90 semester hours completed are seniors. They may enroll in courses numbered 000-599.

**Visiting Student.** Students in good standing at other accredited colleges or universities may be enrolled for one academic period as a visiting student. An official statement from the student's current school verifying the student's good academic standing must be provided to the Office of Admissions prior to enrolling.

**Dually Enrolled Student.** Students who have not completed their undergraduate degree, but who are permitted by the Dean of the School of Graduate Studies to enroll in graduate courses, are classified as dually enrolled students.

**Graduate Student.** Students who have been accepted into the School of Graduate Studies are classified as graduate students. Refer to the GRADUATE BULLETIN for more information.

## COMMENCEMENT

(See Graduation)

## CONSTITUTION REQUIREMENT

In order to graduate from Southeast, students must comply with the state law known as Senate Bill No. 4, 1947 (Mo. Rev. St. Sec. 170.011), which states that students must be "given regular courses of instruction in the Constitution of the United States and of the State

of Missouri, and in American history including the study of American institutions." Students meet this requirement by completing the Political Systems requirement of the University Studies program. Transfer students who have had a course in American government that did not include a study of the Missouri constitution must complete PS 220 Missouri Government, a one-hour course.

## CORRESPONDENCE COURSES

Correspondence courses are not offered by the University. Such work, if applicable to degree requirements, is accepted by transfer from a regionally accredited college or university subject to the limitations noted below. Students may not be enrolled in the University and take correspondence courses without the permission of the Registrar, nor may they take a correspondence course if the same course is offered on campus. University Studies Interdisciplinary courses (UI/IU prefix) and courses which include laboratory class meetings as part of the schedule on this campus may not be taken by correspondence. Before enrolling in a correspondence course, students should consult the Office of the Registrar regarding its acceptability. Total hours and prerequisite restrictions required for residence courses are also applicable to correspondence courses.

**Credit Limitations.** Correspondence courses in techniques of teaching are not transferred.

On a major or minor, not more than one-half of junior college nor more than one-half of senior college work may be completed by correspondence.

No more than 10 hours of correspondence work may be taken in any twelve month period.

## COURSE NUMBERING SYSTEM

Courses numbered 000-099 are classified as developmental courses (unless a lab section which corresponds with a 100-599 lecture course). Courses numbered 100-299 are designated as junior college (lower division) courses. Courses numbered 300-599 are designated as senior college (upper division) courses.

Workshop courses are numbered 800-866. Workshops numbered 800-833 are open to all undergraduate and graduate students and are awarded lower division credit. Those numbered 834-866 are open to undergraduate students who have completed 45 semester hours of credit and to graduate students; undergraduates are awarded upper division credit; graduate students are awarded graduate credit.

**CREDIT BY EXAMINATION**

This program assists people in gaining recognition for knowledge gained and skills acquired through non-academic approaches to learning. College credit earned by examination may be counted toward University Studies, major, minor or elective requirements. A maximum of 30 semester hours of combined credit from AP, CLEP, DANTES, DE, CPS, and IB options may be counted toward a single degree.

Currently enrolled students and students who have applied for admission but have not yet enrolled may avail themselves of the credit by examination programs. Credit is granted through Advanced Placement (AP), DANTES Subject Standardized Test, Departmental Examination (DE), and the College Level Examination Program (CLEP). Additionally, credit may be earned via a Certified professional Secretary (CPS) certification, or through the International Baccalaureate Organizations (IBO) program. Credit is placed on the transcript after the student has completed one academic period.

Students may qualify for credit by examination as long as they have earned fewer than 90 semester hours and have not enrolled in a college course in the subject area in which the examination is given. Students who anticipate attempting to earn credit by examination should not enroll in that subject area before taking the examination. For registration procedures, contact Testing Services at 651-2836.

**Advanced Placement (AP):** Credit for Advanced Placement Examinations will be granted for each examination that receives a score of 3 or above. AP courses and equivalent Southeast courses and credit are listed below:

AP Course	Institutional Course Satisfied	Credit Hours
Art History	AH 198 Art History Elective	3
Art, Studio:		
Drawing	AR 100 Drawing I	3
Biology	BS 108 Biology for Living	3
Calculus AB	MA 140 Analytical Geom & Calc I	5
Calculus BC	MA 140, MA 145 Analytical Geom & Calculus I & II*	9
Chemistry	CH 185 General Chemistry I**	5-8
Computer Science A	CS 155 Computer Science I	4
Macroeconomics	EC 225 Prin Macroeconomics	3
Microeconomics	EC 215 Prin Microeconomics	3
English Language & Comp	EN 100 English Comp I	3

English Literature & Comp	LI 256 Variety of Lit	3
Environmental Science	BS 105 Environmental Biology	3
French Language	FR 100, FR 120 French Language & Culture I & II**	3-6
German Language	GN 100, GN 120 German Lang & Culture I & II**	3-6
Govt/Politics, U.S. Govt/Politics, Comparative	PS 103 US Political Systems***	3
History, United States	PS 104 Comp Political Systems***	3
History, European	US 105, US 107 Am Hist I & II**	3-6
History, World	EH 101, EH 103 Early Euro Civ/Modern Euro Civ**	3-6
Latin: Veril	WH 105 World Civilization**	3
Music Theory	LT 198 Latin Elective	3
Physics B	MM 101 Theories-Music & Cult	3
Psychology	PH 120 Intro Physics I	5
Spanish Language	PY 101 Psych Perspective/Hum Behr	3
Spanish Literature	SN 100, SN 120 Spanish Lang & Culture I & II**	3-6
Statistics	SN 220 Hispanic Literature	3
	QM 257 Business Statistics	3

\* Calculus AB subscore awarded same credit as Calculus AB test above; may not apply both credits together.

\*\* Credit awarded based on score. Call Testing Services for criteria.

\*\*\* PS 220 must also be taken to meet graduation requirements.

**CLEP Subject Examinations:** Each examination is a 90-minute objective test. Credit will be awarded for each examination that has a score of 50 or above. CLEP Subject Examination and equivalent Southeast courses and credit are listed below:

Course	CLEP Test Title	Credit Hours
AC 221	Financial Accounting	3
BL 255	Business Law, Introductory	3
BS 108	Biology	3
CH 180	Chemistry	3
EC 215	Microeconomics, Principles of	3
EC 225	Macroeconomics, Principles of	3
EH 101	Western Civilization I	3
EH 103	Western Civilization II	3
EN 100	College Composition	3***
FR 100/120	French, Language Level 1 & 2	3-6*
GN 100/120	German, Language Level 1 & 2	3-6*

MA 134	Algebra, College	3
MA 135	Precalculus	5
MA 139	Calculus	3
MG 301	Management, Principles of	3
MK 301	Marketing, Principles of	3
PS 103	American Government	3**
PY 101	Psychology, Introductory	3
PY 220	Human Growth & Development	3
SN 100/120	Spanish, Language Level 1 & 2	3-6*
SO 102	Sociology, Introductory	3
US 105	History of the U.S. I	3
US 107	History of the U.S. II	3

\* Candidate score of 45-49 will receive credit for 3 hours. Candidate score of 50 or above will receive credit for 6 hours.

\*\* A departmental exam, Missouri Government, is also required for credit.

\*\*\*Candidate score of 60 will receive credit for 3 hours.

**Certified Professional Secretary:** Credit for the courses listed below are granted upon successful completion of the CPS rating and 12 hours in residence:

<u>Course</u>	<u>Course Title</u>	<u>Credit Hours</u>
AD 331	Word Processing Applications II	3
AD 337	Office Systems Mgt Internship	3
AD 341	Information Systems Procedures	3
EC 101	Economic Problems & Policies	3

**Defense Activity for Non-Traditional Education Support (DANTES):** Originally set up to help armed service personnel obtain credit for knowledge and skills acquired through non-traditional experiences, it is now available to all U.S. universities. Courses for which DANTES credit is accepted are listed below:

<u>Course</u>	<u>DANTES Test Title</u>	<u>Credit Hours</u>
AN 181	General Anthropology	3
BS 105	Environment & Humanity	3
CJ 100	Criminal Justice	3
CJ 110	Introduction to Law Enforcement	3
EC 335	Money and Banking	3
EH 103	Western Europe since 1945	3
FI 260	Personal Finance	3
FI 361	Principles of Finance	3
GG 180	Human/Cultural Geography	3
GO 110	Physical Geology	3
HL 120	Here's to Your Health	3

PH 106	Principles of Physical Science I	3
PH 109	Astronomy	3
SC 200	Principles of Public Speaking	3
SO/SW 242	Principles of Statistics	3
US 225	History of the Vietnam War	3
US 354	Civil War and Reconstruction	3
WH 440	Intro to Modern Middle East	3

**Local Credit By Departmental Examination**

**(DE):** Each test is roughly equivalent to 1 two-hour final examination administered in a regular academic class. Tests are available for the following courses:

<u>Course</u>	<u>Course Title</u>	<u>Credit Hours</u>
MU 182	Music: An Artistic Expression	3
PS 220	Missouri Government	1
QM 257	Business Statistics	3

**International Baccalaureate Organisations (IB):**

IB is international in scope with over 700 member schools currently in the program. Credit is awarded for scores of 4 or higher in Higher Level (HL) courses. No credit is awarded for standard level courses.

<u>Course</u>	<u>IB Course Name</u>	<u>Credit Hours</u>
AR 112	Visual Arts	3
BS 108	Biology (HL)	3
CH 180 or CH185	Chemistry (HL)	3-5*
CS 120	Computer Science (HL)	3
EC 101	Economics (HL)	3
LI 256	English, Language A1 (HL)	3
FR 100/120	French, Language B (HL)	3-6*
FR 200/220	French, Language A2 (HL)	3-6*
GG 180	Geography (HL)	3
GK 101	Greek, Classical Language (HL)	3
WH 125	Islamic History (HL)	3
LT 198	Latin, Classical Language (HL)	3
MA 135	Mathematics (HL)	5
MM 101/105	Music (HL)	4
PH 120	Physics (HL)	5
AN 101	Social & Cultural Anthropology (HL)	3
SN 200/220	Spanish, Language A2 (HL)	3-6*
SN 100/120	Spanish, Language B (HL)	3-6*
TH 100	Theatre Arts (HL)	3
WH 100	History of Africa (HL)	3
WH 130	History of Americas (HL)	3

\* Credit awarded based on score; contact Testing Services for criteria.

High School Dual Credit. Southeast offers dual credit courses in many area high schools. Check with your high school counselor or contact the Dual Credit office at (573)986-6179.

High school credits earned through the St. Louis University 1-8-1-8 program are accepted by Southeast. These students must request official transcripts and have them sent to the Southeast Missouri State University Admissions Office, MS 3550, Cape Girardeau, MO 63701-4799.

## CREDIT HOUR

The unit for counting credit is the semester hour. A minimum of 750 minutes of lecture or 1200 minutes of workshop or 1500 minutes of laboratory is required for each semester hour of credit.

## DEAN'S HONOR LIST

(See Honors)

## DECLARATION OF MAJOR

Students declare their majors by completing a Declaration of Major form in the appropriate college advising office or major department. Students may change their major in the same manner.

**Harrison College of Business:** Declaration of major is done in the College Advising Office.

**College of Education:** Declaration of major for Elementary, Early Childhood, and Exceptional Child is done in the College Advising Office. Declaration of major for Middle School is done in the Department of Middle and Secondary Education. Secondary education majors follow the procedures for the College in which their major is taught. All education majors should confer with the Coordinator of Advising for the College of Education prior to enrollment in Block II.

**College of Health and Human Services:** Declaration of major for Pre-Nursing is completed in the College Advising Office. All other majors in the college are declared in the major department.

**College of Liberal Arts:** Declaration of major is done in the major department.

**College of Science, Technology and Agriculture:** Declaration of major is done in the College Advising Office.

**School of University Studies:** Declaration of major for undeclared/exploratory and Interdisciplinary Studies majors and the Bachelor of General Studies degree are declared in the University Studies Advising Center.

## DEGREE

The bachelor's degree is usually the first academic title or rank conferred on a student by the University for satisfactory completion of a prescribed four-year course of study and authenticated by a diploma signifying a measure of achievement. Its purpose is to enable a student to acquire a certain amount of liberal learning and to become proficient in a particular branch of learning. The primary sources of liberal learning in the curriculum of the bachelor's degree are University Studies and electives. For more programs, those studies leading to proficiency in a branch of learning are a major supported or complemented by one or more of the following: a professional core, a cognate field, a minor.

The curricular structure of the bachelor's degree at Southeast Missouri State University includes 51 credit hours of University Studies, a minimum of 12 credit hours of electives, and a maximum of 64 credit hours of the combination of major and its attendant studies for a minimum of 120 credit hours. The curricular structure allows for a certain amount of overlap between University Studies and other parts of a program: a maximum of 6 credit hours of University Studies courses at the 100-200 level may be taken in one department, and one course at the 300-400 level may be taken in the student's major. Within the structure, the content of programs determines the type of bachelor's degree. For example, bachelor of arts degree programs usually are aimed at liberal learning; they tend to teach qualitative methods of scholarship that focus on matters of priority and choice; and they ordinarily have a small major, which makes the degree flexible. Bachelor of science programs generally are oriented toward professional preparation; they tend to teach quantitative methods of scholarship for purposes of prediction; and they usually have a large major, which limits the flexibility of the degree. Like these traditional degrees, professional bachelor's degrees reflect the content of their programs. The University offers several professional degrees: the Bachelor of Science in Business Administration, the Bachelor of Science in Education, the Bachelor of Science in Family and Consumer Sciences Education, the Bachelor of Music Education, the Bachelor of Music, and the Bachelor of Science in Nursing. These programs usually require a core of professional studies that conforms to the standards of an accrediting agency or other professional body. The size of the professional core ordinarily restricts the number of hours that are required in its associated major.

The relationship among the parts of the bachelor's

degree engender its coherence. University Studies and elective provide the intellectual milieu in which a particular branch of learning is applied. The development of proficiency in a branch of learning extends the student's knowledge of one or more of the human perspectives first encountered in University Studies.

## DEGREE AUDIT REPORT (DegreeWorks Audit)

The official evaluation of a student's record stating the specific requirements for graduation is a DegreeWorks audit. DegreeWorks audits are available on the web and may be reviewed at any time during the semester by the student or his/her advisor.

## DEPARTMENTAL DISTINCTION

(See Honors)

## DEVELOPMENTAL COURSES

Southeast Missouri State University is committed to the academic success of its students. It promotes the accomplishment of this end, in part, by providing tutors, skill development laboratories, and developmental courses. While all of these elements are important, the developmental courses are specially designed to assist students who have demonstrated deficiencies in mathematics and writing. These courses are offered to assist students who might otherwise have difficulty in making the transition from high school to college. Also, similar developmental courses are offered to assist international students. In either case, the ultimate purpose is the same—namely, to enhance the probability that students will achieve academic success.

Developmental courses are extremely important in assisting students who have not demonstrated the skills necessary for academic success at the college level. While grades may not be reduced on the basis of attendance, experience indicates that success in these courses is greatly diminished by poor attendance. Attendance is essential if students are to receive the expected benefits of these courses. Therefore, attendance is required at all class meetings of developmental courses.

To ensure that these expectations are met, students and faculty assume extraordinary responsibilities. Students have a responsibility for properly notifying faculty members as to their reasons for not attending class. Upon the recommendation of the faculty member, a student with more than three inappropriate absences may be suspended from class by the college dean and have a

grade of 'F' recorded. In a case where attendance is a continual problem, the Registrar may suspend and disqualify the student from further enrollment at the University.

**EN 099 Introduction to Composition.** Beginning freshmen and transfer students who have not completed EN 100 English Composition I are required to take an English Writing Placement Essay. The results of this test are used to determine placement in the appropriate level of English, and the likelihood of successful completion of the test of writing competence that students must take after completing 75 hours.

**MA 050 Basic Math Skills.** Any student with an ACT Mathematics subscore of 14 or below is placed in MA050 Basic Math Skills. A grade of 'NDC' or higher in MA050 is needed to satisfy the prerequisite for MA 101.

**MA 101 Beginning Algebra and MA 102 Intermediate Algebra.** Any student with an ACT Mathematics score of 15-20 is placed in MA 101 Beginning Algebra.

In order for a student to receive credit for MA101, the student must master a predetermined number of objectives on the in-class final assessment in addition to the number of objectives mastered on the student's in-class initial assessment.

After receiving credit for MA101, the student is then required to enroll in MA102.

After completing MA102 with a grade of 'C' or higher, the student may enroll in a Logical Systems course in a subsequent semester.

**Graduation Requirements.** Developmental courses are prerequisites to regular university courses. Students must complete a minimum of 120 hours of regular courses in addition to any developmental courses number below 100 they are required to take. Credit earned in courses numbered below 100 does not count toward the minimum number of hours required on any degree offered by the University. However, credit in these courses is used in determining the classification of students, academic progress for financial aid, and athletic eligibility.

In order to receive a degree from Southeast, students must pass EN 099 Introduction to Composition and MA 102 Intermediate Algebra or score at the appropriate level on placement tests to have the courses waived.

## DUALLY ENROLLED STUDENT

(See Classification of Students)

## ENGLISH WRITING PLACEMENT ESSAY

All incoming students who have not successfully completed EN100 English Composition will be placed in a first-semester writing course as follows:

- Students with an ACT English subscore of 22 or above will be automatically placed into EN100;
- All other students are required to take WP001, the English Writing Placement Essay, which is administered by Testing Services and scored by the Center for Writing Excellence. Students are eligible to sit for only one administration of WP001.

Students whose ACT English subscore is 25 or above are eligible to take the EN100 Equivalency Exam the semester they enter the University system. Students who achieve the required score on the Equivalency Exam will be granted three hours of credit for EN100.

## ENROLLMENT/CANCELLATION/ WITHDRAWAL FROM THE UNIVERSITY

**Enrollment.** Students enrolled in 12 hours of credit per semester are designated as full time students. Students enrolled in 11 hours or less per semester are designated as part time students. Only officially enrolled students may attend classes. Specific instructions for enrollment can be accessed on the Registrar's website, [www.semo.edu/registrar](http://www.semo.edu/registrar).

**Maximum Enrollment.** Normally, the maximum number of hours that a student may schedule in the fall or spring semester is 18. However, students with at least a 3.0 grade point average (GPA) in the preceding semester, or at least a 3.0 cumulative GPA, may request permission from their advisor to carry a maximum of 21 hours. Such requests are considered on an individual basis. The maximum number of hours that a student may schedule during a summer semester is determined by the length of the session.

**Registration/Enrollment.** All currently enrolled students register for classes using the web registration system located at <http://portal.semo.edu>. Students may register for classes using one of several computer terminals located on campus. Web registration instructions can be accessed on the Registrar's website, [www.semo.edu/registrar](http://www.semo.edu/registrar).

**Change of Schedule.** Students may add or drop classes until the deadlines listed on the Semester Calendar which can be accessed on the Registrar's website, [www.semo.edu/registrar](http://www.semo.edu/registrar).

**Late Enrollment.** Students are expected to enroll prior to the start of classes. They may enroll during the first week of the fall or spring semester. Late enrollment dates for the summer semester can be accessed on the Registrar's website, [www.semo.edu/registrar](http://www.semo.edu/registrar). A fee may be charged for late enrollment.

**Cancellation/Withdrawal from the University.** Students can cancel their enrollment prior to the start of classes using the web registration system to drop all classes or by notifying the Office of the Registrar in writing. Such notification must be RECEIVED by the first day of the semester. Students can withdraw from the University until the "Last Day to Drop a Class," listed on the Registrar's website, [www.semo.edu/registrar](http://www.semo.edu/registrar), using the web registration system or by notifying the Office of the Registrar in writing. After that date and until the official withdrawal date which is listed on the Registrar's website, students must contact the Office of the Registrar to complete the withdrawal process. All financial obligations to the University must be fulfilled. Grades of 'F' are recorded for students who do not withdraw officially from the University.

**Deadline for Refund.** Students who cancel enrollment before the semester begins are eligible for a refund of 100 percent of any incidental fees that they have paid. Students who withdraw from classes after the semester begins are eligible for a refund of incidental fees based on the sliding scale available through Student Financial Services, Memorial Hall.

**Deadline for Withdrawing Without Penalty.** Students may not withdraw during the three weeks preceding final examinations without the approval of the Registrar. The time period for withdrawing is reduced proportionately for terms of fewer than 15 weeks.

**Probationary Students.** Students who are on probation and withdraw remain subject to suspension. (See Academic Standing)

## EXAMINATIONS

Formal examinations are given at the end of every conventional course and must be taken at the time stated. Exceptions are granted only in cases of extreme hardship. Students may request an exception by submitting a written request to the instructor. Any approval of such an exception must be made in writing by the instructor and the department chairperson. Students are allowed two hours to complete a final examination.

If a student is unable to take a final examination because of illness or other circumstances beyond her/his control, the department chairperson must be notified by the student; otherwise, a grade of 'F' in the course will be recorded.



**Special Examinations.** Departments which require special examinations must list them on the Registrar's website, schedule of classes section. No student may be required to miss another scheduled class in order to take a special examination. In case of a time conflict between a scheduled class and a special examination, the department giving the special examination will provide an alternate time to the student who has the conflict.

## FINAL EXAMINATIONS

(See Examinations)

## FOREIGN LANGUAGE PLACEMENT AND RETROACTIVE CREDIT

Students with prior experience in a foreign language may receive retroactive credit. Students who earn a grade of 'C' or better in a course beyond the first semester course can receive credit for a prerequisite course or courses up to a maximum of nine semester hours. Retroactive credit will receive a grade of 'CR', and may be counted toward the foreign language requirements on the Bachelor of Arts or Bachelor of Science in Education degree, and/or the requirements of a major or minor in a foreign language.

## GRADES

Grades are assigned as follows: A = excellent; B = superior; C = average; D = inferior; F = failure; I = incomplete; X = failure due to nonattendance; P = pass; CR = credit; AU = audit.

Grades with an ND prefix indicate non-degree courses which are not included in the grade point average (GPA) and the credit hours are not counted toward the credit hours needed for graduation. These are either developmental courses or courses taken by students who are not regularly admitted to Southeast.

**Calculating Grade Point Average.** Grade points are calculated on the following basis: for each hour of A, 4 points; for each hour of B, 3 points; for each hour of C, 2 points; for each hour of D, 1 point; for each hour of F, 0 points. The GPA is computed by dividing the total grade points by the number of semester hours of academic work attempted. Grades assigned as CR, P, AU and grades received for non-degree credit courses are not computed in the GPA.

### Required Grade Point Averages

- A minimum cumulative GPA of 2.0 is required for graduation, except for the B.S. in Education, the B.S. in Family and Consumer

Sciences Education, the Bachelor of Music Education, the major in Communication Disorders, the major in Interdisciplinary Studies, the major in Mass Communication, and the Bachelor of Fine Arts-Performing Art program which require a 2.50 GPA for graduation and the major in Social Work which requires a 2.25 GPA for graduation.

- A minimum 2.0 GPA for all of the degree credit attempted at Southeast is required.
- For all degrees which require a major, a minimum 2.0 GPA must be earned in those courses counted on the major, except for Business Administration majors which require a 2.25 GPA, majors on the Secondary Education degree, the Mass Communication major, the Health Management major and the Theatre and Dance major which require a 2.50 GPA, the Communication Disorders major which requires a 2.75 GPA, and the BFA-Art majors, BFA-Performing Arts major, all Music majors, Human Environmental Studies: Dietetics Option and the Social Studies Education major which require a 3.0 GPA.
- A minimum 2.0 GPA must be earned in those courses completed at Southeast that are counted on the major.

**Incomplete work.** A grade of Incomplete ('I') may be given when a student is doing passing work, but is unable to complete all of the requirements because of unusual circumstances acceptable to the instructor. In no case may an 'I' be agreed to prior to the last day to "drop" the class. An 'I' may not be used to permit a student to repeat a course or to improve a grade. Both the student and the instructor must complete the Application for Incomplete Grade form and file it with the departmental office. Normally, this is done prior to the submission of final grades. Requirements for completing the course are specified by the instructor on the application.

An Incomplete must be removed during the next semester, exclusive of the summer semester, or a grade of 'F' will be recorded. Students should not reenroll in courses in which they have received an 'I' grade.

**Pass/Fail Option.** This option may be chosen by students who meet the following criteria: (1) 45 semester hours of credit completed; (2) a cumulative GPA of at least 2.250; (3) all the prerequisites for the course completed. A course taken on the pass/fail option will be counted only as a general elective. Courses needed to fulfill University Studies, major, minor or other degree requirements cannot be taken on a pass/fail basis.

The pass/fail grade refers only to the final grade recorded on the student's transcript. Performance is evaluated on the same standard as if the student were being graded on the A, B, C, D, F scale.

A grade of 'P' does not affect the GPA. However, a grade of 'F' is computed into the GPA.

A course taken on the pass/fail option may be repeated only on the pass/fail option, and only if it was failed initially.

Students are limited to 6 hours of pass/fail credit per academic period, and a total of 18 semester hours.

A request for pass/fail credit must be approved by the student's advisor and the Office of the Registrar, and must be on file in the Office of the Registrar prior to the date stated on the Registrar's website, schedule of classes section.

**Auditing a Class.** With the approval of the department chairperson, a student may be permitted to audit a class. The chairperson's approval must be on file in the Office of the Registrar prior to the date stated on the Registrar's website, schedule of classes section. Students who audit classes are not required to take examinations or to do assignments required of regularly enrolled students. They are expected to attend the class. A student does not receive any credit for a course that has been audited. Only students who are officially enrolled in the University may audit classes. Fees are assessed at the same rate as courses taken for credit.

A student may elect to take a course for credit which has been audited previously or audit a course for which credit has been received previously.

**Grade Appeal Process.** Situations may arise in which a student believes that a grade received in a particular course is incorrect. The student should first approach the instructor of the course in a timely manner in an attempt to resolve the matter. If the matter is unresolved, the student should consult with the chairperson of the department in which the course is taught. If the matter remains unresolved, the student should follow the grade appeals process as outlined on the Dean of Students website, "Grade Appeals Procedures" found online at <http://www5.semo.edu/deanofstudents/>. (See the policy on academic honesty for process in cases of alleged academic misconduct and/or grade appeals policy.)

## GRADUATION

**Application.** Students should apply for graduation at the time they enroll for their last semester. Students graduating in the summer who wish to participate in the spring commencement exercise should enroll on the first

day of priority summer enrollment and submit a graduation application for the summer semester immediately. Applications must be received in the Registrar's Office by the deadline listed on the commencement website <http://www.semo.edu/commencement/>. Every effort will be made to notify students of unmet requirements in time for changes to be made to the semester's enrollment; however, the final responsibility for enrolling in courses which fulfill graduation requirements remains with the student.

**Commencement.** Attendance at commencement is highly encouraged. Attendance will help to make this important occasion a memorable one. Students who are unable to participate in commencement should notify the Office of the Registrar.

Commencement exercises are held at the conclusion of the Fall and Spring semesters. Students who expect to complete degree requirements in the Fall or Spring semester may participate only in the commencement exercise in the semester they expect to complete degree requirements. Students who expect to complete degree requirements in the Summer semester may participate in the preceding Spring exercise provided they have met the deadlines set forth by the Office of the Registrar, or they may elect to participate in the Fall exercise following Summer graduation.

**Fee.** A fee is charged to cover administrative costs associated with the awarding of the degree. This fee will be charged to the student's account.

**Requirements.** Students are solely responsible for knowing and meeting degree requirements. Students cannot graduate with any incomplete classes, including elective courses which may or may not be required for the completion of the degree, on their record.

Questions regarding the application process, commencement ceremony, fees or graduation requirements should be directed to the graduation personnel in the Office of the Registrar.

## HONORS

**Dean's Honor List.** Students who have completed at least 12 semester hours in one semester at Southeast Missouri State University with a grade point average (GPA) of 3.5 or above and with no grade below a 'C' are placed on the Dean's Honor List. Pass/fail courses, credit only courses, and developmental courses do not count toward the 12 hours needed. Only courses in which grade points are applied to the cumulative GPA are used to determine eligibility. If students have declared a major, a certificate of recognition may be obtained from the dean of the college in which the

major is located. If a student has not declared a major, the certificate may be obtained from the Dean of the School of University Studies.

**Departmental Distinction.** To be eligible to apply for graduation with departmental distinction, students must have completed a minimum of 75 semester hours with at least a 3.0 overall cumulative GPA, and must have at least a 3.25 cumulative GPA in courses taken in the department of the major, as verified by the Office of the Registrar.

To be graduated with this distinction, students must initiate the study for distinction prior to the graduation semester and satisfy criteria, which are detailed in the FACULTY HANDBOOK. Approval for the distinction project should be reported to the Office of the Registrar at the time of enrollment for the graduation semester. Students interested in this program should ask the chairperson of their department for additional information.

**Graduation with Honors.** Students with an overall cumulative GPA of at least 3.5 may be graduated with honors. This honor is recorded on the student's transcript. A special ceremony to recognize students graduating with honors is held prior to the commencement exercise. To be eligible to participate in this ceremony, a student must have earned an overall cumulative GPA of at least 3.5 before the beginning of the term in which the student is to be graduated. Grades earned during the student's final term will not be considered in determining eligibility for participation in the honors ceremony.

All grades earned, including the original grade in a course that has been repeated, are used to compute the overall cumulative GPA for determining eligibility for graduation with honors. The overall cumulative GPA for honors, then, may be different from the overall cumulative GPA reported on the student's transcript or grade report.

**Cum laude.** Students whose overall cumulative GPA is from 3.5-3.749 are graduated cum laude.

**Magna cum laude.** Students whose overall cumulative GPA is from 3.75-3.899 are graduated magna cum laude.

**Summa cum laude.** Students whose overall cumulative GPA is from 3.9-4.0 are graduated summa cum laude.

**EXCEPTION:** Students who have elected to utilize the "Academic Fresh Start Policy" for forgiveness of prior GPA are eligible for graduation with honors based upon their new course work and grades.

## IDENTIFICATION CARD

All enrolled students are expected to carry the Redhawks Card, the University identification card. The Redhawks Card is required to obtain access to various University facilities, services and to gain admission to certain University programs and functions. Students are responsible for the accuracy of the information on the card.

The Redhawks Card is non-transferable and its misuse or falsification of information could result in disciplinary action. Students must present their identification card upon request to University officials acting in performance of their duties. There is no charge for the original Redhawks Card or for a replacement if the card is bent, worn, or broken, however, you must return the damaged card at time of requesting a new card. A replacement fee of \$15 will be charged to replace lost cards, or those that are required by a name or account number change. Redhawk cards are obtained in the ID Services office, at the Information Desk on the 3rd floor of the University Center. Please call (573)339-4636 for further information.

## INCOMPLETE GRADE

(See Grades)

## INDEPENDENT STUDY

Students may enroll in a maximum of two independent study courses for a total of six semester hours credited toward the baccalaureate degree. They must have met the following prerequisites:

1. A minimum of 75 semester hours completed;
2. A minimum cumulative grade point average of 2.50 overall or 2.75 in the department in which the independent study is being done;
3. A minimum of 10 semester hours in the department completed;
4. Permission of the department chairperson.

## INTERNSHIP

An academic internship affords the student a unique opportunity to combine formal learning experiences with the professional work setting. Internships are planned experiences that are approved prior to enrollment for credit. Internship programs may be established for 3 to 15 semester hours of credit. As a guideline, it is expected that the student would be employed in a supervised learning experience for at least 120 hours spread over the academic session in order to receive 3 hours of

credit. While the number of hours provides the basis for a set time frame, the emphasis throughout the internship is on the quality of the planned learning experiences. Departments should refer to the FACULTY HANDBOOK for guidelines for establishing internships.

### JANE STEPHENS HONORS PROGRAM

By offering educational opportunities tailored to the special needs, aspirations, and motivations of students whose intellectual and creative abilities are outstanding, the Jane Stephens Honors Program underscores the University's commitment to quality and excellence in matters of knowledge, creativity, and leadership. The goals of the Stephens Honors Program reflect this basic commitment. These goals are:

1. to encourage an intellectual orientation by providing a model of academic endeavor, which emphasizes analytical thought, insight into the methodologies of different disciplines, and cross-disciplinary synthesis;
2. to address the special needs of outstanding students by providing a center of identity for formulating personal goals, developing self-esteem, and increasing the desire for self-directed learning; and
3. to contribute to the general advancement of learning by encouraging the active pursuit of academic goals, as exemplified by research, scholarly activity, and creative endeavor.

#### Honors credit may be earned by:

1. taking specially-designated honors sections of courses in the University curriculum or
2. contracting for honors credit in non-honors sections taught by members of the honors faculty.

Honors sections may be designated for any degree credit course in the University curriculum. Honors courses are designed and taught to contribute to the goals and objectives of the Stephens Honors Program. At the same time, honors courses meet the content requirements of their non-honors counterparts.

An honors student may contract with a member of the honors faculty for honors credit in any degree credit course in the University curriculum. The honors contract ensures that the student undertakes independent work, which satisfies the goals and objectives of the Stephens Honors Program. At the same time, the contract ensures that the normal content requirements of the course are met.

While meeting the defined objectives of their non-honors counterparts, honors courses emphasize

creative and active learning, analysis and synthesis, and application of background knowledge. Particular attention is paid to student initiative, methodological awareness, depth of investigation, and diversity of learning resources. Student initiative is encouraged. There is less reliance upon drill, lecture, and textbook review, and greater reliance upon independent readings, class discussion, question-and-answer sessions, collective problem-solving, and student-conducted research. Methodological awareness is developed by an emphasis on methods of research and analysis, the process of discovery, the nature of professional activity in the discipline, the historical development of the discipline, and current issues and problems. Depth of investigation is encouraged as material is covered in greater detail. More emphasis is placed on implications and underlying principles, and more intellectually demanding issues and problems are discussed. Diversity of learning resources implies less reliance upon traditional textbook presentation of material and greater reliance upon a variety of sources, including professional books and articles, books of current and historical interest, selected readings from periodicals, library resources, visiting faculty, and team teaching.

In addition to special academic opportunities, the Stephens Honors Program offers other activities through which superior students can develop leadership skills and participate in co-curricular and social activities with other honors students and honors faculty. Students also are given the opportunity to attend honors conferences and contribute to the intellectual climate of the University.

To be eligible for admission to the Stephens Honors Program, students with less than 12 semester hours of college credit must have a cumulative high school grade point average (GPA) of at least 3.4 on a 4.0 scale (or its equivalent) and an ACT composite score of at least 25 (or its equivalent). Students who do not meet the initial criteria and transfer students may be admitted to the Stephens Honors Program after they have completed 12 semester hours of college credit with a cumulative college GPA of at least 3.25.

The requirements to complete the Stephens Honors Program are 24 semester hours of honors credit with 6 hours at the upper division level, a senior honors project, and a minimum cumulative GPA of 3.25.

For more information, visit <http://www.semo.edu/honors> or contact Dr. Craig Roberts, director of the Stephens Honors Program, at [croberts@semo.edu](mailto:croberts@semo.edu) or (573) 651-2513.

## LATE ENROLLMENT

(See Enrollment/Withdrawal)

## MAJOR

An academic major is a curricular component that enables students to make an in-depth inquiry into a discipline or a professional field of study. It is organized around a specific set of goals and objectives that are accomplished through an ordered series of courses whose connections define an internal structure. It is intended to provide study in depth, which leads to knowledge and understanding in the discipline or field of study. A major that focuses on a discipline draws its courses predominantly from one department. One that encompasses a professional field of study or is interdisciplinary usually obtains its courses from more than one department.

The number of credit hours in a major and its organizational structure will vary, depending on whether it aims at disciplinary or professional preparation. A disciplinary major consists of thirty to forty-two credit hours. Due to the demands of accrediting agencies, certification requirements, and professional competence, a professional major normally ranges from thirty to fifty-five credit hours. In both cases, a major includes a logically ordered core of required courses, which provides general direction for students' study, and a series of electives, which gives a degree of flexibility to the program. A minimum of 15 hours in the major must be at the upper level (300 or above).

Departments have the responsibility for administering all majors within their unit and for approving particular programs of study and appropriate course substitutions for students. Those departments involved with interdisciplinary majors perform the same functions as individual departments. Courses taken to fulfill other academic requirements, e.g., minors and areas of specialization, may ordinarily also be used in the major without reducing the minimum number of hours required for a degree. However, no student may declare a major and a minor in the same discipline of field of study.

The most important feature of a major is study in depth. A major introduces students to a discipline or field of study through a foundation of theory and method, which serves as a basis for further study. It exposes them to the gamut of topics examined and the analytical devices used in the study of the subject. It contains a series of courses that presume advancing levels of knowledge and understanding. At its completion, it has a means of assessing students' mastery of

the subject such as, a project, an internship, a thesis, or a comprehensive examination. Study in depth provides students with an understanding of the fundamental problems and arguments of a discipline or field of study, as well as their limits. It affords them practice with the tools of the subject, introduces them to its historical and philosophical foundations, and gives them a clear sense of its boundaries and its effectiveness as a means for understanding or serving human society.

Within majors, there may be Options, Concentrations, Areas of Specialization or Tracks.

**Options.** An Option is a formally designated specialization within an existing major that has distinctive curricular pattern. A preponderance (more than half) of required courses for the option will be taken in a core of courses common to all variations of the existing major. Options will appear on the student's transcript.

**Concentrations.** A Concentration is a specialization within an existing major that is a coherent set of courses designed to provide depth in a particular sub-discipline. Concentrations will not appear on a student's transcript.

**Area of Specialization.** An Area of Specialization is specific to the B.S. in Education for Elementary (1-6) and Middle School (5-9) programs. It fulfills one requirement of the Missouri Department of Elementary and Secondary Education for teacher certification for those programs. An Area of Specialization consists of an approved structured 21 hour (minimum) series of courses in an area appropriate for these teachers. An Area of Specialization will appear on a student's transcript.

**Tracks.** A Track is specific to the degree in Interdisciplinary Studies. A Track consists of at least 12 credit hours and not more than 30 credit hours in specific discipline or area of study. The specific courses that constitute a Track are determined in the contract that the student makes with the School of University Studies. Up to four Tracks may appear on the student's transcript.

## MAXIMUM COURSE CREDIT

Students may not take more than 55 hours in a department toward the 120 hours required for the baccalaureate degree except on the Bachelor of Fine Arts with a major in Art or Performing Arts, Bachelor of Music, Bachelor of Music Education, Bachelor of Science in Nursing, and the Bachelor of Science in Family and Consumer Sciences Education degrees; the physical education and industrial education majors on the Bachelor of Science in Education degree; the chemistry major on the Bachelor of Science degree.

## **MINOR**

An academic minor is a curricular component which enables a student to make an inquiry into a discipline or field of study, or to investigate a particular theme. It is organized around a specific set of objectives or questions. The objectives of a minor are achieved through an ordered series of courses, whose connections are defined to indicate an internal structure. Minors are intended to provide competency in the subject. Course offerings in a minor may be centered in a specific department or drawn from several departments as in the case of a topical or thematic focus.

A minor consists of fifteen to twenty-one credit hours, with at least six credit hours, preferably nine or more, at the upper level (300 or above). Nine to twelve credit hours are organized in a logical sequence of required credits. This core provides general direction for the student's study while maintaining a degree of flexibility. Flexibility is achieved by offering the student a choice from among a group of courses to complete the credits. Departments have the responsibility to administer all minors within their unit and to approve appropriate substitutions for students. Those units involved in interdepartmental minors perform the same function as departments. Courses taken in a minor may ordinarily also be used to fulfill other academic requirements, e.g., majors, general education, without reducing the minimum number of hours required for a degree. However, no student may declare a major and a minor in the same discipline.

The integrity of a minor is measured by the degree to which the structure and content meet its objectives and, thereby, serve the student. It is also determined by its relationship to the curricular goals and objectives of the department. The regular evaluation of a minor to ensure its integrity and the practice of noting it on a student's transcript indicate its importance to the university curriculum. The true significance of a disciplinary minor is demonstrated by the extent to which it leads the student to some understanding of that discipline or field of study and to a certain degree of competence with its methods of inquiry. The quality of an interdisciplinary or thematic minor is determined by its ability to suggest answers to the questions upon which it is focused. In either case, a minor should provide basic insight into a subject that helps further the student's educational goals.

## **PROBATION**

**(See Academic Standing)**

## **REPEATED COURSES**

Students who have received a grade below an 'A' in a course may repeat the course, provided they have not completed a course for which the repeated course is a prerequisite. When a course is repeated, the first grade remains on the permanent record, but only the last grade is used in computing the grade point average. Students must have the permission of the Registrar to repeat a course.

## **RESIDENCE REQUIREMENTS**

At least 30 semester hours of credit earned in residence are required for all undergraduate Baccalaureate degrees. At least 20 semester hours of credit earned in residence are required for all undergraduate Associate degrees. "In Residence" is defined as courses taken on a campus of Southeast Missouri State University or administered by Southeast Missouri State University.

The last term of work before receiving a degree must be done in residence; however, students who lack six semester hours or fewer to meet the graduation requirements may request permission of the Registrar to complete them at another accredited college or university, or by correspondence subject to the rules governing transfer of credit.

## **STUDENT OUTCOMES ASSESSMENT**

Assessment of student skills and knowledge by various means external to regular classes is an important and necessary part of completing degrees at Southeast Missouri State University. Students are expected to complete any locally-produced or nationally-normed assessment instruments (e.g., Major Field Achievement Tests, C-Base, Writing Assessment, the Measure of Academic Proficiency and Progress (MAPP) and general education assessments) required by Southeast Missouri State University for measurement of students' skills and knowledge. Students are responsible for knowing the assessment requirements of the University and of their academic major departments. The University is responsible for informing students of these specific requirements in official documents. The University has the option to record the results of students' performance on official assessments in official students' records, including transcripts. The University reserves the right to

withhold official records and access to enrollment of students who do not complete required assessments.

All students are required to fulfill the 75-Hour Writing Proficiency requirement except (a) those who are pursuing a second college degree at the bachelor's level or beyond, and (b) those who have completed 90 credit hours toward their degree upon enrolling at Southeast for the first time. Students who are required to fulfill this requirement must enroll in WP 003, the 75-Hour Writing Proficiency Test, after they have completed 75 semester hours of credit. In addition, students must have credit for the University Studies Written Expression category before taking WP 003. A passing score on WP 003 is a requirement for graduation on all baccalaureate degrees. The test is administered by Testing Services and scored by the Writing Outcomes Program faculty. Students must present two photo ID's for admission to the testing site.

## STUDENT RECORDS

The University maintains students' educational records in a manner consistent with the Family Educational Rights and Privacy Act of 1974 (Buckley Amendment), Missouri statutes R.S.MO. 610.021(6) and 610.010(4), and the implementation of these acts. These acts are designed to protect the privacy of students and parents regarding access to records and release of such records, and to provide opportunity for a hearing to challenge such records should they be inaccurate, misleading, or inappropriate.

Under the University's Open Meetings and Open Records Policy, adopted by the Board of Regents October 30, 1987, public records are closed to public inspection and copying to the extent that they relate to scholastic probation, expulsion, or graduation of identifiable individuals and personally identifiable student records.

However, such records may be subject to public inspection and copying under the following conditions:

1. Personally identifiable student records shall be open for inspection by the student, or by the parents, guardian or other custodian of the student in the case of a student who is a dependent of the parent, guardian, or other custodian as defined by the Internal Revenue Code, Sec. 152. The burden of establishing dependency shall be upon the parent, guardian, or custodian requesting access to the record.
2. Any personally identifiable student records may be disclosed upon the request or with the consent of the student, in writing, dated, and specifying

the records to be disclosed, the purpose of the disclosure, and the parties to whom disclosure may be made.

3. Personally identifiable student records which are required by state or federal law to be disclosed to federal or state agencies, or under court order, or in specific circumstances, may be disclosed at the request of such agency, or in response to court order, or upon showing of the specific circumstances requiring disclosure.
4. Directory information, including the following: Name, address, email address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, full or part time enrollment status, number of hours enrolled in a semester, degrees, awards received, and the most recent previous educational agency or institution attended by the student, may be disclosed without the consent of the student.

A student who objects to the disclosure of any of these specific categories of personally identifiable directory information has the right to refuse to permit the designation of such information as directory information with respect to that student. Such objection must be made in writing to the Registrar not later than 30 days after the start of the student's first semester of enrollment at the University. The University will attempt to honor written objections not filed within 30 days after the start of the student's first semester of enrollment, but in such instances will not be responsible for the inadvertent release of information designated by the University as directory information by an agent who is not aware of the student's objection to that release.

## SUSPENSION

(See Academic Standing)

## UNIVERSITY STUDIES PROGRAM

All students who are candidates for baccalaureate degrees are required to complete the University Studies program. This program consists of 51 semester hours and includes the following components: (1) UI 100 First Year Seminar, required of all beginning students and transfer students with fewer than 24 degree credit hours; (2) EN 100 English Composition, required of all students. Students may transfer this course in. Students placing directly into the Written Expression category will

have met this requirement; (3) core curriculum: one 3 hour course from each of four categories in three perspectives for a total of 36 core semester hours at the 100-200 level. No more than six of these 36 hours may be taken within any one department; (4) two 300 level interdisciplinary courses; and (5) one 400 level senior seminar. At the 300-400 level, no more than one course can be taken in the department(s) of the student's major(s).

Students who begin their academic careers at institutions with whom the University has an articulation agreement and who subsequently transfer to Southeast with an appropriate Associate Degree or general education transfer block will be considered to have completed the lower division component of the University Studies program. They will be required to complete the two 300-level interdisciplinary courses and the 400-level senior seminar.

Students who begin their academic careers at Missouri institutions that are compliant with the Credit Transfer Policy of the State Coordinating Board for Higher Education and transfer to Southeast after having completed the sending institution's 42-credit general education transfer block will be considered to have completed the lower division component of the University Studies program. Transfer students are required to complete the two 300-level interdisciplinary courses and the 400-level senior seminar.

The School of University Studies is located in Brandt Hall 205, (573) 651-2783 and online at <http://www.semo.edu/ustudies>.

## **VETERANS**

Veterans are required to meet standards of federal laws regarding progress and attendance, under supervision of the Veterans Administration. Information regarding these regulations is available from the Office of the Registrar or online at [www.semo.edu/veterans](http://www.semo.edu/veterans). Students who expect to receive benefits must complete the certification paperwork with the Office of the Registrar each semester as soon as they enroll for a given semester.

## **WEB REGISTRATION**

**(See Enrollment)**

## **WITHDRAWAL FROM THE UNIVERSITY**

**(See Enrollment/Withdrawal)**

## **WORKSHOPS**

Workshop courses are generally designed to meet a specific current need by offering students intensive study of a single topic, problem or issue. Workshops numbered 800-833 are open to all undergraduate and graduate students and are awarded lower division credit; those numbered 834-866 are open to undergraduate students who have completed 45 semester hours, and to graduate students and are awarded upper level or graduate credit. Normally, workshops are graded 'CR' for credit only.

## **WRITING COMPETENCE**

**(See Student Outcomes Assessment)**

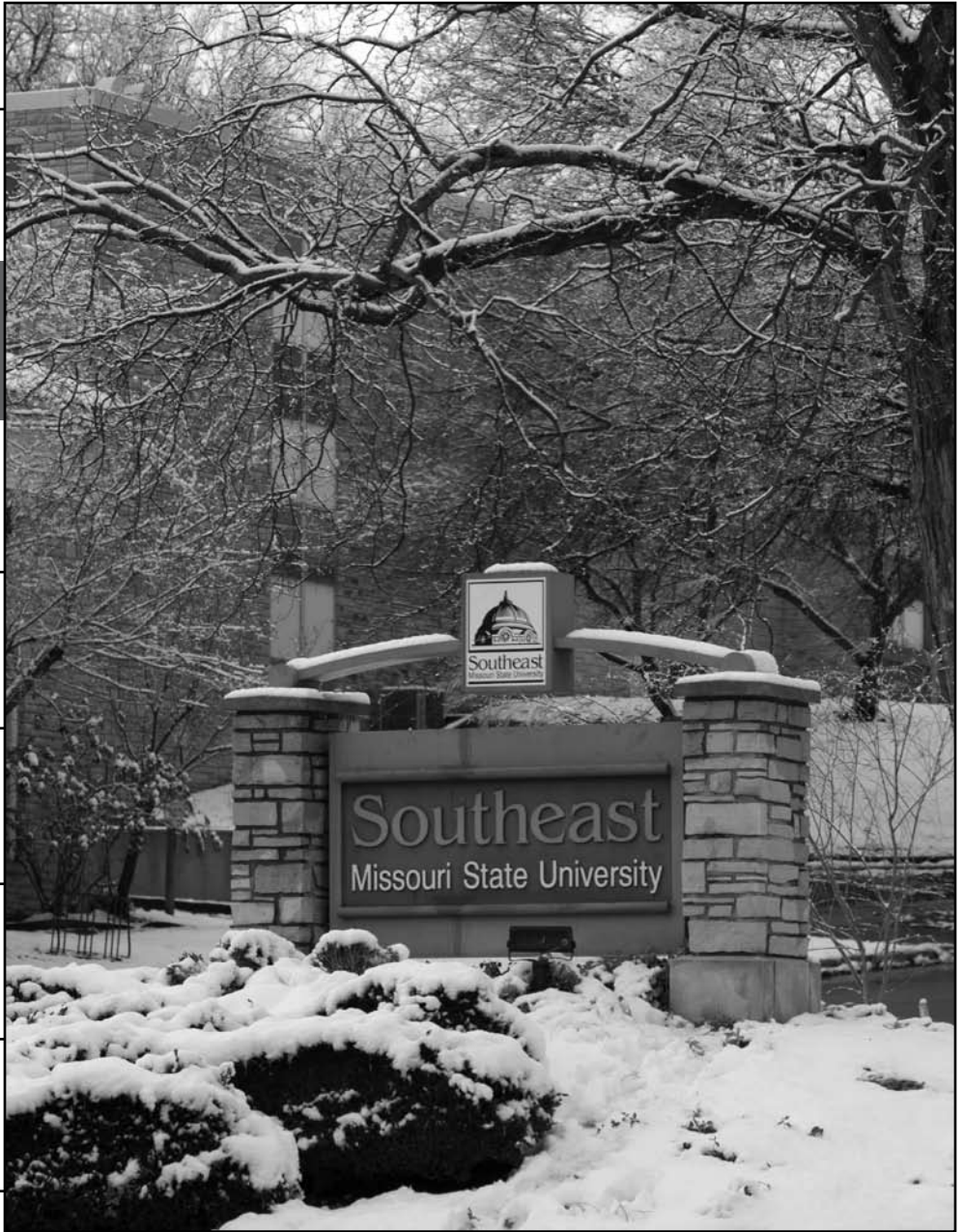






*General Information*

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**ACADEMIC INFORMATION SERVICES**  
**Center for Scholarship in Teaching and Learning**  
**Kent Library**

**Center for Scholarship in Teaching and Learning**

The Center for Scholarship in Teaching and Learning, established in 1985, serves as a campus resource for faculty, graduate students, researchers, and others interested in the teaching/learning process. Located in Kent Library, the Center assists faculty in designing instruction, provides workshops on the enhancement of teaching, and sponsors and conducts scholarship focusing on college teaching and student learning.

**Kent Library**

Kent Library is well positioned to support the needs of the 21st century learner. The library's staff and faculty are proud of the Information Commons, which combines state of the art technology with traditional library resources and services in one centralized, comfortable academic environment. This total service concept includes over 100 individual computers with network access designed for individual or group work. Student needs in the areas of electronic research, media production, information access, and collaborative and individual study space are met with the assistance of librarians. A comprehensive information literacy program, offered through Kent Library, is available to all Southeast faculty and students.

Traditional library resources and services are folded into the new technologies to form a solid platform for assisting students' individual needs. The library's general stack collection, approximately 500,000 volumes, is supplemented through the statewide MOBIUS consortium. The statewide consortium allows a Southeast Missouri State University student access to over 23 million items statewide with delivery to the student in less than a week. In addition the library also provides more than 30,000 journals in electronic format. The library's Special Collections and Archives preserves and makes accessible research material that document the historical, literary and cultural experience of Southeast Missouri State University. The Rare Book Room contains materials from the 13<sup>th</sup> through the early 20<sup>th</sup> centuries, as well as a world-class literary collection on William Faulkner. The Heather MacDonald Greene Multimedia Center has three production rooms that provide video, photo and sound editing equipment as well as collaborative space for group work and web conferencing. The Instructional Materials Center offers access to a

wide range of audiovisual materials, technology such as digital video cameras, a K-12 textbook and curriculum materials collection, and a selective collection of children's and young adult literature.

Blending current technologies with traditional library services and resources, further combined with personalized assistance from trained staff and faculty, form the basis for this 21st century academic library.

**ATHLETICS**

Southeast Missouri State University competes at the NCAA Division I level and is a member of the Ohio Valley Conference (OVC). Southeast has won a total of 43 OVC regular-season championships and 16 OVC tournament titles during its first 21 years in the league. Since joining the OVC in 1991, Southeast has won seven Women's All-Sports trophies. Southeast sponsors six men's sports and nine women's sports. The men compete in football, basketball, cross country, baseball and indoor and outdoor track & field. The women compete in volleyball, soccer, basketball, cross country, gymnastics, softball, tennis, and indoor and outdoor track & field.

**CAMPUS LIFE**

[www4.semo.edu/campuslife](http://www4.semo.edu/campuslife)  
 (573)651-5120

**University Center**

[www4.semo.edu/uc](http://www4.semo.edu/uc)

The University Center (UC) is the family room of the campus. As a "hub" of campus activity, the UC offers services, programs and facilities, which meet the various needs of students, faculty, staff, alumni and friends. Services include the Center for Student Involvement (CSI), home to 150 student organizations including fraternities and sororities, leadership development programs, an information desk, lounge, computer lab, Southeast Bookstore, US Bank, and administrative offices. The Redhawk Market, Starbucks and Skylight Terrace dining areas offer hot and cold entrees, soup and salad bar, grill items, coffee and smoothie bars, and your favorite brands - "Papa John's," "Chick-Fil-A," and more. Student Government offices are also housed in the UC in addition to a variety of student initiated activities that are planned every year by the Student Activities Council. For more information, contact Campus Life and Event Services at (573) 651-2280.

## DEAN OF STUDENTS

The Dean of Students serves as a student advocate within the University community and to the general public. The Statement of Student Rights and Code of Student Conduct is published and administered by the Office of the Dean of Students. The Dean of Students provides leadership for the following areas: Counseling and Disability Services including Substance Abuse Prevention and Education (SAPE); academic support centers including Educational Access Programs, Learning Assistance Programs, McNair Scholars Program, and Student Support Services; and the Office of Student Conduct. The Office of the Dean of Students also provides services for commuter and non-traditional students. The office can be reached by calling (573)986-6888.

## Counseling and Disability Services

Counseling Services provides confidential and affordable services to all enrolled students. It is located on the first floor of Dearthmont (northeast side). The licensed counselors provide services that include individual personal counseling, couples counseling, and counseling referrals. The office can be reached at (573)986-6191 or online at [www.semo.edu/ucs](http://www.semo.edu/ucs). Substance Abuse Prevention and Education (SAPE) Services, located in the Dearthmont Office, offers programs and outreach services. Any currently enrolled student is eligible for services. Confidential referral services are available. The office can be reached at (573)986-6191 or online at [www.semo.edu/SAPE](http://www.semo.edu/SAPE).

Students with disabilities are registered with Disability Services, which is the institutionally recognized program designated to provide federally mandated services for students with disabilities by ensuring equal access to curricular and co-curricular opportunities. Disability Services collaborates with students, faculty, staff and community members to create useable, equitable, inclusive and sustainable learning environments. Both programs can be reached by calling (573)651-5927. Additional information may be accessed through the website [www.semo.edu/ds](http://www.semo.edu/ds).

## Educational Access Programs

Educational Access Programs provides leadership in administration of academic intervention, mentoring and financial aid programs for U.S. ethnic minorities. The office can be reached by calling (573)986-6135 or visit the website at [www.semo.edu/eap](http://www.semo.edu/eap).

## Learning Assistance Programs

Learning Assistance Programs provides services to enhance both academic and personal enrichment skills

through an holistic approach. The office provides direct services and resources through in-person and online programming for students to assist in the development of critical thinking skills and to support their educational goals and attainment. The office can be reached by calling (573) 651-2273. Additional information may be accessed through the website [www.semo.edu/lap](http://www.semo.edu/lap).

## Student Conduct

The mission of the Office of Student Conduct is to promote concepts of fairness and due process in judicial settings throughout the University community, while striking a balance between community standards and individual behavior through the educational development of students. The Office of Student Conduct is authorized by the Dean of Students to supervise the judicial system, including the imposition of sanctions upon students found to have violated the Code of Student Conduct. The Code as well as additional information related to the Office of Student Conduct is available at the following link: <http://www6.semo.edu/stuconduct/>. The office can be reached by calling (573) 651-2264.

## TRIO/McNair Scholars Program

TRIO/McNair Scholars Program is a federally funded program that encourages supports and assists academically promising students who have been historically underrepresented in various fields to pursue education through the doctoral level. The office can be reached by calling (573)986-6117 or visit the website at [www.semo.edu/mcnair](http://www.semo.edu/mcnair) for additional information.

## TRIO/Student Support Services

TRIO/Student Support Services is a federally funded program that assists a targeted population of 200 Southeast students in completing post-secondary education. Academic services and supportive environment are provided to increase persistence and graduation rates of eligible students and to foster an institutional climate that encourages their success. The office can be reached by calling (573)651-2512 or visit the website at [www.semo.edu/ssss](http://www.semo.edu/ssss) for additional information.

## DEPARTMENT OF PUBLIC SAFETY

The University maintains a staff of professional police officers, separate from city and state police agencies. University police officers are commissioned by the Board of Regents under Missouri statutes and by the City of Cape Girardeau. The officers are charged with protecting the safety of people and property on the University campus and maintaining the security of

University facilities. The officers are members of the University's Department of Public Safety. Any crime, dangerous situation, hazard, or suspicious activity observed on University property should be reported promptly to an officer or the Department of Public Safety. The Department of Public Safety is located at 1401 North Sprigg, phone (573) 651-2215. Business hours are 8:00 a.m.-5:00 p.m., Monday-Friday; however, the office is open 24 hours a day, seven days a week.

**Parking.** The University maintains various streets, parking lots, and sidewalks under its control and separate from public streets and thoroughfares in the City of Cape Girardeau. The use of motorized vehicles and bicycles by University students, faculty, and staff on these streets, parking lots, and sidewalks is governed by regulations approved by the Board of Regents and regularly reviewed by a University Committee. All vehicles of students and employees operated and parked on University property must be registered with the Department of Public Safety and display the appropriate permit. Residents of the University's residence halls may park their vehicles in the vicinity of the campus only on University-owned parking lots and streets. Premium parking is available in preferred parking lots; however, parking is available at a reduced cost in perimeter lots. Application for parking may be made by mail in July preceding the academic year or anytime during the current semester. Additional information on these services can be obtained by contacting the Department of Public Safety or by visiting <http://www5.semo.edu/dps/parking>. Copies of parking and traffic regulations are available in the Department of Public Safety Office.

**Shuttle.** The Southeast Missouri State University Shuttle Service provides transportation from perimeter parking lots to the interior of campus and from the main campus to the River Campus. All busses are accessible to passengers with disabilities. Passengers may wait for busses in lighted shelters, equipped with a direct ring telephone line to the police communications unit at the Department of Public Safety.

## EXTENDED AND ONLINE LEARNING

The Extended and Online Learning coordinates all learning activities at Southeast other than face-to-face classes on the Cape Girardeau campus. This includes the regional campuses at Sikeston, Malden, Kennett, and Poplar Bluff, as well as Southeast's activities at the Perryville Higher Education Center and the Cape Girardeau Partnership for Higher Education. Online Learning also oversees web, webinar, ITV and blended

courses, including Southeast Online Programs, and the Office of Instructional Technology, which helps faculty to integrate technology with teaching and learning.

## Southeast Online Programs

Southeast Online Programs provides web-based, blended (a mixture of web-based class sessions and face-to-face or ITV sessions), and webinar (courses delivered using video conferencing software) courses to students locally and at a distance. Instruction, assignments, and class discussions—all facets of a high quality course—are part of the online learning experience. Students can choose from over 250 fully online courses in a wide variety of disciplines. Several fully online Bachelor's and Master's degree programs are available, including an RN-BSN program and a fully accredited, nationally recognized online MBA. Other programs include an Alternative Certification curriculum for prospective teachers and English for Speakers of Other Languages (ESOL) Certification. Southeast Online is located on the third floor of Kent Library, room 317, and online at <http://online.semo.edu>.

## FINANCIAL AID

Student Financial Services offers a comprehensive program of financial assistance for students needing supplemental financial support for their educational expenses. To apply for federal, state and institutional need-based aid, a student must complete a Free Application for Federal Student Aid (FAFSA). The FAFSA can be accessed on-line at [www.fafsa.gov](http://www.fafsa.gov) or you may request a paper FAFSA by calling 1-800-433-3243 or 1-317-337-5665. In order to be considered for priority packaging, the FAFSA should be received by the processor by March 1. To meet this deadline, submit your FAFSA electronically by mid-February. Students may complete the FAFSA through June 30 of the award year; however, this may result in limited aid eligibility.

**Federal Grants.** The Federal Pell Grant is the largest federal grant program available through the U.S. Department of Education. The FAFSA information is used to determine eligibility for the Federal Pell Grant. Eligibility is based on the Expected Family Contribution (EFC) and enrollment status. The Student Aid Report will indicate initial eligibility. Award amounts are prorated for less than full-time enrollment. The Federal Supplemental Educational Opportunity Grant (FSEOG) is awarded to Pell Grant eligible students with a zero EFC. Awards and award amounts are determined annually based on the number of applicants who complete the FAFSA by the priority processing deadline and by the EFC.

**Scholarships.** The University offers an extensive scholarship program. Scholarships are awarded on the basis of financial need, academic achievement, artistic ability, athletic ability, college major, military commitment, community activities, geographic location or special interests. The admission application is used to determine academic merit scholarships for first-time freshmen and transfer students. Endowed scholarships require a separate application which is available online through the student portal under Southeast Student Processes-Apply for Endowed Scholarships. Additional information regarding scholarships and deadlines is available through the Office of Admissions or Student Financial Services and online at <http://www.semo.edu> by selecting “Future Students” or “Current Students” and then “Financing Your Education.” The State of Missouri provides need-based and merit awards primarily through the Access Missouri Financial Award and Bright Flight program. To be considered for a state of Missouri need-based award, the FAFSA must be received by the Department of Education Processor by April 1. Therefore, meeting the March 1 priority processing date will assure meeting the deadline date for Missouri State awards.

**Loans.** Loan programs administered by the University are the Federal Perkins Loan, the William D. Ford Federal Direct Subsidized and Unsubsidized Loan for students, the William D Ford Federal Direct PLUS Loan for parents of undergraduate students, and the Federal Direct Grad Plus Loan. To apply for a loan, follow the instructions provided with the award letter.

**Student Employment.** Student employment opportunities are available to students, either as regular student employment (non-need based) or Federal Work Study (need-based requiring a processed FAFSA by March 1). The number of FAFSA applicants meeting the priority processing deadline and the EFC determines who is eligible for Federal Work Study. Students may work up to 20 hours a week and are paid minimum wage or higher. Students must complete a Work Referral Authorization Form and related documents available through Student Financial Services before beginning employment. Students interested in student employment can view job openings through the Career Linkages website [www.semo.edu/careerlinkages/students/part\\_time.htm](http://www.semo.edu/careerlinkages/students/part_time.htm). Career Linkages administers the Job Location and Development program to offer students referral to part-time work opportunities at businesses and organizations in the local community.

**Verification.** FAFSA records are selected to be verified by the Department of Education and the Uni-

versity. This process requires that the University collect documents (1040 tax transcripts, W-2 forms, worksheets, etc.) to verify data submitted on the FAFSA. A financial aid record is not considered complete and eligible for aid disbursement until verification has been completed and a revised student aid report is sent electronically to the University from the Department of Education. The last date verification forms or requested documentation will be accepted is the earlier of the last day of the semester or the student’s last documented date of attendance for the semester.

**Satisfactory Academic Progress.** Students must be maintaining satisfactory academic progress towards a degree in order to maintain continued eligibility for federal and Missouri state aid (in addition to any other state aid requirements). Satisfactory Academic Progress for financial aid purposes is reviewed after each semester including summer. Students are sent a warning notice after a semester for which they do not meet the satisfactory progress requirements. Students who fail to meet satisfactory progress for two consecutive semesters are suspended from financial aid. Students may appeal, in writing, to have financial aid reinstated. If reinstated, students are considered to be on probation during the term they are receiving aid. Failure to meet requirements for this probationary period will result in financial aid suspension. Satisfactory Academic Progress for financial aid purposes is measured differently than for academic purposes. A student may be allowed to continue to enroll in courses but without financial aid eligibility. This will require that the student pay out of pocket for educational expenses. The Satisfactory Academic Progress policy is available online at <http://www.semo.edu/sfs/financialaid/progress.htm>.

For further information, contact Student Financial Services by calling (573)651-2253 or e-mailing [sfs@semo.edu](mailto:sfs@semo.edu), or logging online at <http://www.semo.edu> and select “Future Students” or “Current Students” and then “Financing Your Education.”

## GRADUATE STUDIES

The primary purposes of graduate study are to provide opportunities for advanced study of an academic discipline and study for a profession. Students are introduced to research and scholarship in their field of study and prepared for increasing competence in their profession.

Admission to the School of Graduate Studies is based on satisfactory academic performance on the undergraduate level as measured by the cumulative GPA, specific courses in the appropriate major, and

academic scores on such tests as the Graduate Record Exam, Millers Analogy Test, or Graduate Management Admission Test. (See the Graduate Bulletin at [www.semo.edu/gradschool](http://www.semo.edu/gradschool) for details.)

Degrees and majors available at the graduate level are:

**Master of Arts:** Career Counseling, Communication Disorders, Elementary Education, Elementary Administration, English, Exceptional Child Education, School Counseling, Higher Education Administration, History, Human Environmental Studies, Mental Health Counseling, Public History, Secondary Education, Secondary Administration, TESOL, Teacher Leadership

**Master of Business Administration**

**Master of Natural Science:** Biology, Chemistry, Mathematics, Science Education.

**Master of Public Administration:** Public Administration.

**Master of Science:** Criminal Justice, Environmental Science, Industrial Management, Nutrition and Exercise Science.

**Master of Science in Nursing**

**Specialist in Education:** Counseling Education, Educational Administration, Educational Leadership Development.

**Doctor of Education:** Educational Leadership; Cooperative degree with the University of Missouri.

Graduate certificates are available in the following areas of study:

**Facilities Management**

**Heritage Education**

**Historic Preservation**

All requests for information or admission materials should be directed to the Dean of the School of Graduate Studies, Southeast Missouri State University, Cape Girardeau, MO 63701.

**OFFICE OF ADMISSIONS**

The Office of Admissions serves all undergraduate and graduate domestic students interested in attending Southeast. The office distributes University information and applications, provides college preparation outreach and new student recruitment services, and evaluates the applications and transcripts from new and returning students. Southeast's campus tour and visitor center is also housed in the office. The Office of Admissions is located in Academic Hall. Call (573) 651-2590 for assistance.

New Student Programs, a function within the Office of Admissions, helps students make a smooth transition to the University through orientation programs including

First STEP (Southeast's Testing and Enrollment Program), Opening Week, and Transfer Orientation. For additional information, contact the office at (573) 651-5166.

**OFFICE OF MILITARY AND VETERAN'S SERVICES**

The Office of Military and Veteran's Services (OMVS) supports military and veteran students as well as their dependents in their endeavors to seek academic and personal success. The OMVS offers a myriad of services and referrals including, but not limited to, assisting students with: military to student transition, VA Educational Benefits, tuition assistance, and transferability of military coursework. Referrals to on and off campus services to include: Student Services, Disability Services, tutoring, counseling and Veteran Affairs services, as well as other state and federal resources and services. We are here to serve you. The OMVS can be reached by calling (573)651-2263. The website is [www.semo.edu/veterans](http://www.semo.edu/veterans).

**OFFICE OF THE REGISTRAR**

[www.semo.edu/registrar](http://www.semo.edu/registrar)

The Registrar is responsible for the maintenance of all academic records, grades, degree audits, transcripts, commencement, and enrollment. The office also coordinates the updating and publishing of the semester schedules of classes and the undergraduate bulletin. The office coordinates veterans' programs, the Job Training Partnership (JTPA) outreach services, and the Trade Readjustment Act (TRA). For additional information, contact the office at (573)651-2250.

**PROGRAM CENTERS**

The **UNIVERSITY SCHOOL FOR YOUNG CHILDREN** (Cape Girardeau) and the Child Development Center (Sikeston) at Southeast Missouri State University are units of the Department of Human Environmental Studies. They serve as model learning environments for children from six weeks to six years of age. Programs are designed to meet the developmental levels of each child. Growth is facilitated in four basic areas: social, emotional, cognitive, and physical. Learning is promoted through a process of active exploration, stimulation and discovery. Both centers facilitate parent involvement and education through a variety of activities including daily interaction, conferences, and newsletters. They also function as instructional laboratories where University students observe and work with children. In addition, each Center is utilized for research in the field of child

development by other human development programs on campus. Both centers are licensed by the Department of Health and Senior Services, Bureau of Child Care, and are fully accredited.

The **CENTER FOR ECONOMIC AND BUSINESS RESEARCH** is designed to maintain accurate and current data, information and analyses summarizing and interpreting business and economic conditions.

The **CENTER FOR FAULKNER STUDIES** sponsors and supports educational research and public service projects related to Nobel Prize-winning author William Faulkner, the South, and American and World literature. The Center, a unit of the Department of English and the College of Liberal Arts, was established in 1989 following the University's acquisition of the internationally acclaimed private collection of Faulkner materials assembled by Louis Daniel Brodsky of St. Louis. In addition to serving students and visiting scholars on campus, the Center assists Faulkner readers and researchers around the world through its website.

The **DOUGLAS C. GREENE CENTER FOR INNOVATION AND ENTREPRENEURSHIP (CIE)** at Southeast Missouri State University is one of the most comprehensive entrepreneurship-focused university centers in the Midwest, offering a wide array of academic and outreach programs and services, including: innovation development and research; entrepreneurship education, training and mentorship; and business incubation and development services. The CIE supports Southeast Missouri State University's strategic priority to advance the region's economic appeal and strength by accelerating local and regional economic growth and development that improves the quality of lives, communities and business in southeast Missouri and the surrounding region.

The **CENTER FOR REGIONAL HISTORY AND CULTURAL HERITAGE** serves the University and the region through its work in documenting, preserving, and presenting various aspects of local and regional history, ethnic and folk traditions. Members of the Center staff provide assistance to historical societies, schools, museums, and a number of city, county, state and national agencies. The Center offers a wide variety of consultative services, cultural resource management, as well as program planning in regional and local history. The Center also publishes books on various aspects of the history of southeast Missouri. The Center is involved in a variety of public outreach activities which serve to promote, preserve and interpret the history of the southeast Missouri service region. Administered within the College of Liberal Arts, the Center serves as a support unit for student and faculty work in history,

historic preservation, archaeology, and folklore, as well as other fields.

**GERONTOLOGY INITIATIVES**, formerly the Institute of Gerontology, was designed to encourage and coordinate the interdisciplinary teaching, scholarship, and service of interested faculty members. Currently faculty members representing several major academic units teach related courses. To facilitate students' understanding of aging, the University offers a 21-hour interdisciplinary minor in Gerontology with courses offered in the Departments of Biology; Communication Disorders; Health, Human Performance & Physical Education; Human Environmental Studies; and Psychology.

**TECHNOLOGY RESOURCE CENTER.** As part of the College of Science, Technology and Agriculture, this center introduces students, faculty, and industries to the latest technologies to improve productivity.

## RECREATION SERVICES

([www.semo.edu/recservices](http://www.semo.edu/recservices))

The Department of Recreation Services is home to all things recreation on the Southeast campus! Join us at any of our three recreation facilities on campus—the Student Recreation Center-North (SRC-North), Student Recreation Center-South (SRC-South), and the Student Aquatic Center (SAQ).

Located on the north end of campus (just west of the Show-Me-Center @ 750 New Madrid—under the pedestrian bridge), the SRC-North is a 100,000 square foot facility consisting of a large free-weight room (plate loaded and selectorized weights), an extensive array of cardiovascular equipment (treadmills, bikes, steppers, elliptical trainers and more), five racquetball courts, an indoor walking/jogging track (180 meters), five basketball/seven volleyball courts, a group fitness studio, two multi-purpose rooms, a 30-foot indoor climbing wall and locker rooms. It's also the home to all of our administrative offices. Additionally, the Student Aquatic Center (located just behind the SRC-North) showcases a six-lane, 25-yard lap pool, a leisure pool featuring a bouldering wall, zip-line, rope swing and a 12-person whirlpool spa.

The SRC-South is located southeast of Houck Stadium (926 Bellevue). In this 22,000 square foot facility, we provide patrons with a large array of cardio equipment that includes treadmills, steppers, bikes, elliptical trainers and selected weight equipment.

Recreation facilities are open over 180 hours weekly during the academic year. For exact hours in the SRC's and the SAQ, please visit our website at [www.semo.edu/recservices](http://www.semo.edu/recservices).



All students enrolled in at least one credit hour and paying student fees are eligible to use the facilities. Students and members must present their valid Redhawks ID card to enter any of our facilities. Facilities are also available to rent by individuals or student groups.

Programmatic opportunities also exist in Recreation Services in intramural sports (over 30 sports annually), fitness and wellness (over 20 group fitness classes weekly and personal training opportunities), wellness fairs, canoe rentals, our Southeast Challenge program—which provides leadership training to small or large groups and utilizes our outdoor low ropes course, birthday parties, and a complete aquatic program which includes swim lessons, SCUBA diving and much more! For more information on all of our facilities and programs, visit [www.semo.edu/recservices](http://www.semo.edu/recservices) or call us at (573) 651-2105.

## RESIDENCE LIFE

Residence Life offers a wide variety of living options to encourage participation in the rich tradition of living on campus. Residential communities encourage students to broaden their academic pursuits, experience personal growth, develop leadership skills, and make new friends along the way! Residential options include community and suite-style living arrangements, learning communities such as honors, education, science and transfer student.

Southeast Missouri State University requires all students to live on campus for two years unless they are living with parent(s) or legal guardians in the Cape Girardeau area, over 21, married, have dependent children, have 57 degree credit hours, or a veteran.

Information on residential options and residency requirements may be obtained from the Office of Residence Life, located in Towers Complex, or by calling (573) 651-2274 or email at [residencelife@semo.edu](mailto:residencelife@semo.edu).

## SCHOOL OF UNIVERSITY STUDIES

### Center for Academic & Career Advising

The primary mission of the Center for Academic & Career Advising is to assist students at important points throughout their academic careers at Southeast. The Center helps students identify and use available campus resources to meet personal, academic, and career goals. Services in this office fall into three main categories:

**Career Advising:** Career Advisors work with students in all majors at Southeast to assess career opportunities and select a career path and major that

matches their interests and abilities. They provide quality career advising services to current students, alumni, faculty, and staff through individual appointments and group presentations including career proficiency checks, workshops, and other University presentations. Career advisors keep current in career and employment trends and work collaboratively within the Center for Academic and Career Advising making appropriate student referrals within the Center and to other resources across campus.

**Academic Advising:** Academic Advising is provided for students with majors in the Colleges of Liberal Arts, Health & Human Services, and the School of University Studies (exploratory) in the Center for Academic Advising located in Academic Hall. Students with majors in the Harrison College of Business, and the Colleges of Education and Science, Technology and Agriculture are advised through Academic Advising Centers in their respective colleges.

Academic advisors work with students as they progress through their academic programs. Academic advising is an intentional, collaborative relationship that promotes the student's development of competence, autonomy, and sound decision making skills. As a result of academic advising experiences, students will:

1. Be more informed regarding university and college policies, procedures, and courses as they relate to their academic program.
2. Know the requirements of their academic program and develop/follow an academic plan by: a) interpreting their degree audit by using DegreeWorks, b) selecting appropriate elective courses which enhance their background and preparation, c) following appropriate registration procedures.
3. Generate appropriate questions and apply academic advice.
4. Select activities and opportunities that enhance professional growth and development.

**Career Linkages:** Professionals in Career Linkages provide career assistance and support to students and alumni across all majors at Southeast. Services include computerized career exploration, resume/cover letter review, job search and interviewing assistance, mock interviews, a career resources library, and trained personnel to respond to career-related inquiries. Career Linkages provides information about career events and on-campus interviews, job postings, internship/practica opportunities, and much more. Staff professionals also work with academic program leaders on experiential learning programs, both locally and in the greater St. Louis area, to provide students coordinated and carefully planned pre-professional practice opportunities in

their fields of study. Career Linkages also coordinates employment opportunities available to students, graduates, and alumni through an online career management system.

### **Center for Writing Excellence**

The Center for Writing Excellence promotes better writing throughout the University and the community by means of three major projects.

The Writing Lab, located in Kent Library room 412, provides individual assistance to students, faculty, and the community. Tutors will help writers gain confidence, generate and organize ideas, and revise more effectively, in addition to reviewing the basics of spelling, punctuation, and grammar. The Writing Lab will not proofread your work; rather, the tutors will help you to become a better editor of your own writing. Walk-ins are welcome, but you may make an appointment by calling (573) 651-2460. Tutors will also provide online assistance. Details are available at <http://ustudies.semo.edu/writing>.

The Writing Assessment Program provides individual and institutional assessment of writing. Through a series of exams, the program offers feedback to students on their writing skills, and in conjunction with the Writing Lab, support for the further development of those skills.

The Writing in the Disciplines program provides collaborative assistance to faculty in assessing the teaching of writing in their classes and development of improved teaching methods. Faculty can work individually with Writing Associates and attend periodic workshops on specific aspects of teaching writing in all academic fields.

### **Testing Services**

Testing Services offers numerous examinations including national exams, institutional exams and individual tests. National exams include the Subject Based Graduate Record Exam (GRE), the Graduate Management Admission Test (GMAT), the Miller Analogy Exam (MAT), the ACT, the PRAXIS and GED Exams. Testing Services also supports the individual testing needs of students who have authorized accommodations from Disability Services. Students and other community members can make testing arrangements for correspondence exams and for various subjects in the College Level Examination Program (CLEP).

### **UI 100: First Year Seminar**

UI 100: First Year Seminar is a required three-credit, interdisciplinary, theme-based introduction to the

University Studies program. Office personnel provide faculty development support for seminar instructors, collaborate with Admissions, New Student programs, Residence Life, Student Financial Services, Student Development, among numerous other offices to provide students the support needed to make their first year at Southeast a successful experience. Call (573)561-2092 for further details about the program.

## **STUDY ABROAD PROGRAMS**

Studying abroad allows students to expand their horizons, academically and culturally, beyond Southeast Missouri State University. Study abroad can contribute significantly to language acquisition, cultural awareness, in addition to the academic courses taken. Southeast Missouri State University provides many different study abroad programs for students, ranging from short-term, faculty-led programs to semester or academic year opportunities. Financial aid awarded to students at Southeast can be applied toward most study abroad programs.

If you are interested in learning more about study abroad opportunities, contact the Office of International Education and Services at (573) 986-6863 or email [studyabroad@semo.edu](mailto:studyabroad@semo.edu). You can also visit the International Education and Services webpage, [www.semo.edu/ies](http://www.semo.edu/ies), click on "Study Abroad" and see available programs offered at Southeast Missouri State University.

## **UNIVERSITY DINING SERVICES**

University Dining Services, operated by Chartwells, provides quality food through the Towers residence hall dining center, retail operations including the Skylight Terrace and Redhawk Market in the University Center (featuring Hearthstone, Chick-Fil-A, Acentos Latino and Papa John's Pizza), Rowdy's in the Towers Complex, Starbucks, Subway, Olive's, River Campus Cafe and a full-service catering operation. Dining Services is available for faculty, staff, students, student groups and the Cape Girardeau community. Added value dollars called Redbucks may be purchased through Chartwells for use in any campus dining or retail facility operated by Chartwells.

## **UNIVERSITY PRESS**

Southeast Missouri State University Press, founded in 2001, serves both as a first-rate publisher in our underpublished region and as a working laboratory for students interested in learning the art and skills of literary publishing. The Press supports a minor in Small Press

Publishing for undergraduate students in any major who wish to acquire the basic skills for independent-press publishing and editing. Awards won by the press' books include the James Jones First Novel Award, the Langum Award for Historical Fiction, two Missouri Governor's Book Awards, the United We Read selection, and the Kniffen Book Award.

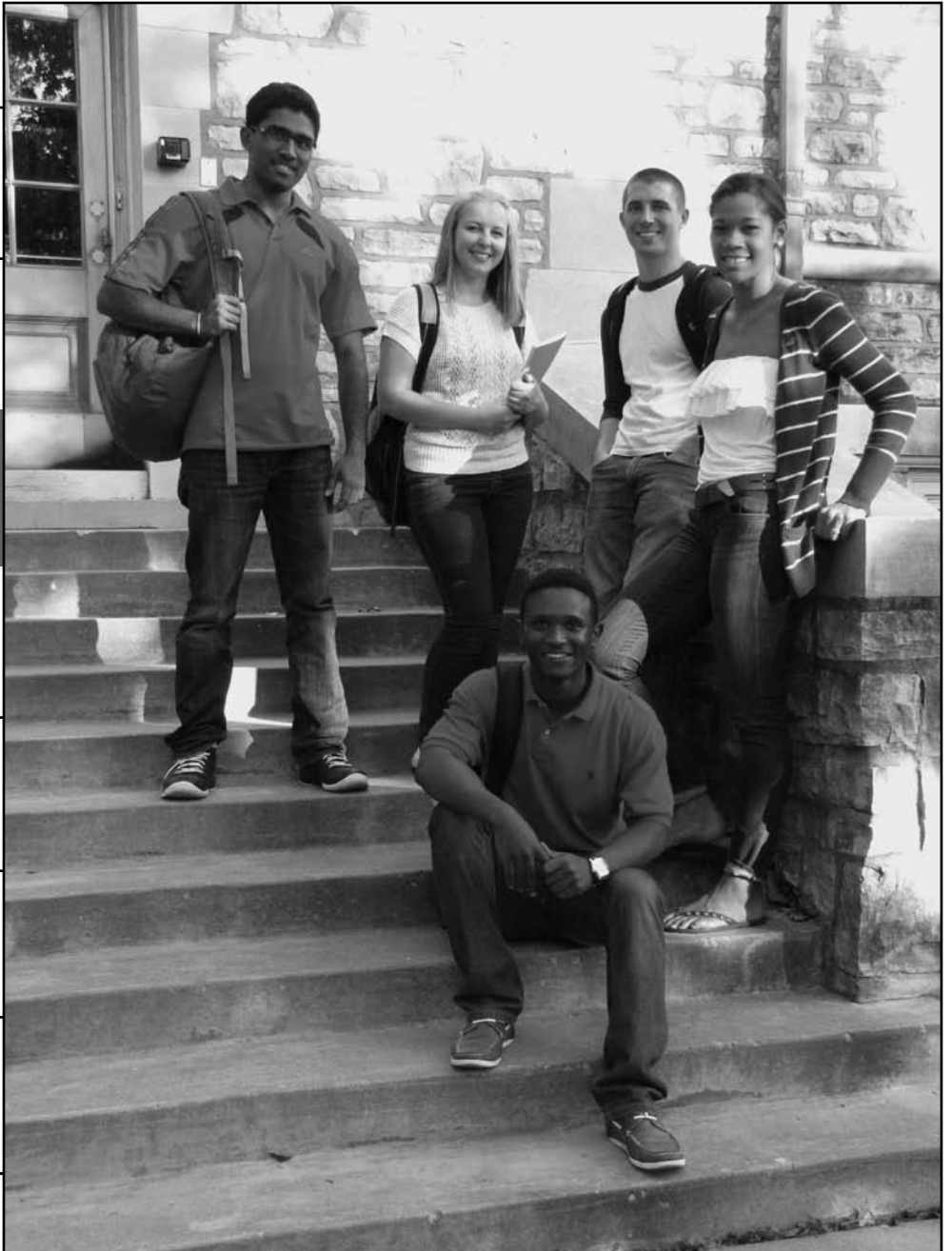
## **VISITORS SERVICES AND CAMPUS INFORMATION**

Visitors to the campus may contact the Information Desk in the University Center, (573)339-INFO (4636), for campus maps and general campus and local information, and the location of specific services, programs, and offices on campus. The Information Desk hours are Monday-Thursday, 8:00 am - 7:00 pm and Friday, 8:00 a.m.-5:00 p.m. Students interested in attending Southeast should contact the Office of Admissions, Academic Hall, (573)651-2590.



*College Information*

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## **DONALD L. HARRISON COLLEGE OF BUSINESS**

**Charles McAllister, Dean (Interim)**

**Department of Accounting**

**Department of Economics and Finance**

**Department of Management and Marketing**

**Office of International Studies in Business**

**The Center for Economic and Business Research**

**The Center for Innovation and Entrepreneurship**

Because of the quality of its programs in business, Southeast Missouri State University will become the campus of choice among students wishing to pursue undergraduate business studies at a State University with a primary focus on high quality instruction. Through the accomplishments of its students and faculty, and with a commitment to continuous improvement and excellence, the Donald L. Harrison College of Business will be a college that sets expectations rather than simply meets expectations. As a result of its academic growth and development, a stronger college identity will emerge and this identity will be enhanced by local, regional, national and international linkages which benefit students, faculty, and the University's larger community. The Harrison College of Business is committed to providing business studies today for tomorrow's business successes – experience Southeast, experience success.

The Donald L. Harrison College of Business at Southeast Missouri State University provides contemporary undergraduate and graduate business studies in accounting, economics, entrepreneurship, finance, international business, management, management information systems, marketing, and organizational administration designed to meet the educational and professional needs in Southeast Missouri, while attracting students nationally and internationally. Students are provided an unusually strong liberal arts foundation by completing the nationally recognized University Studies program. A Master's In Business Administration (MBA) program is available for advanced studies in business.

A minor in business administration is offered for any non-business major. This minor is designed to provide non-business students with a foundation in business concepts that many employers find attractive. The business administration minor also provides a bridge to the MBA program. Upon completion of the undergraduate degree with a minor in business administration, students may apply directly to the MBA program. Once admitted, students can achieve the MBA degree by completing 33 credit hours of graduate business work.

Excellence in teaching, intellectual contributions, and service consistent with the teacher-scholar model are faculty priorities. Greatest attention is given to high quality teaching, emphasizing conceptual reasoning, problem-solving, critical thinking, and preparation for life-long learning that recognizes an ever-changing global business environment. The active learning environment fosters integration of knowledge, an international perspective, and ethical valuing. To insure continuous improvement and relevance, curricula and other elements of the teaching process are reviewed and revised regularly.

Scholarly work, effective teaching, and student learning are intertwined. As such, following the teacher-scholar model, the Harrison College of Business encourages and supports all forms of scholarship, including discipline-based scholarship, contributions to practice, and pedagogical research. Faculty are expected to be active in scholarly and professional organizations, and to develop and enhance relevant linkages with the business community, area schools, other colleges and universities, governments at all levels, and organizations and agencies in other countries.

The Harrison College of Business promotes regional economic growth and small business development through its academic programs and activities of the Center for Economic and Business Research, the Center for Innovation and Entrepreneurship and through collaboration with the Small Business Development Center. Faculty expertise and student enthusiasm support a wide range of outreach efforts designed to assist regional businesses to be as successful as possible.

The Harrison College of Business aspires to attract, retain, and develop students who have the intellectual capacity and personal skills to succeed in their academic, personal, and professional endeavors. Paramount in this is the promotion of diversity and cultural sensitivity. The faculty is committed to supporting student success through excellence in instruction, advising, career counseling, internships and practica, co-curricular activities, and student placement. Student progress is monitored through the College Advising Center and by program evaluation, student outcomes assessment, and the maintenance of AACSB-International business accreditation.

College resources are acquired and managed in a manner consistent with a commitment to excellence and improvement. Faculty recruitment, retention, development and incentives are based on enhancing and recognizing teaching effectiveness, intellectual contributions, and service. Faculty professional development

activities are supported through university, college, and departmental programs. Investments in facilities and equipment are guided by academic priorities focused on insuring student success and relevance. This is reflected in state-of-the-art technology that supports alternative delivery systems, develops skills valued by the business community and promotes student learning of business concepts.

The objectives of the undergraduate business program and college are:

- To prepare students to begin successful careers in business and related professions, or to pursue advanced studies in business or related fields.
- To develop an understanding of the linkage between the theory and practice of business.
- To insure students are conversant in the contemporary issues confronting the business practitioner.
- To develop communication skills, critical thinking skills, problem solving skills, leadership and teamwork skills, and fundamental research skills.
- To develop a foundation for life-long learning necessary for continued success and personal growth.
- To provide minors and other course work to complement the University's curriculum.
- To provide an environment that supports professional growth and advancement among faculty and staff.

The Donald L. Harrison College of Business is fully accredited by the Association to Advance Collegiate Schools of Business-International (AACSB-International). AACSB-International is the premier accrediting body for undergraduate and graduate programs in business worldwide. International Accreditation by the Network of International Business Schools (NIBS) complements accreditation by AACSB and reinforces the college's global perspective.

## **ACCOUNTING**

**Chairperson: Leisa Marshall**

**Faculty: Deborah Beard, Sean Eom, Pam Gershuny, Eleanor Henry, Roberta Humphrey, Gary Johnson, Mary Moore Johnson, Rebecca Lohmann, Richard Palmer, Dana Schwieger, Gangaraju Vanteddu, Anthony Varnon, Jill Young, Alisha Youngblood-Ortiz**

The Department of Accounting meets the need for a quality undergraduate accounting education through a dedicated faculty and curriculum that reflect the increasing importance of information to sound business decision making, a changing global environment, enhanced ethical awareness, and the increasing expectations of a professional career in accounting or information systems. Those completing the major in accounting have the foundation to pursue professional certification and a career in public, corporate or non-profit accounting. Students develop hands-on skills and experience by creating effective business applications of information technology to support business organizations. The department also serves students pursuing the MBA degree. Department faculty members regularly engage in professional development and scholarly activity. Faculty also engage in College and University service activities and provide service to the professional community at the local, regional and national levels through involvement in professional organizations and consulting activities.

### **MAJORS:**

Accounting (B.S.B.A.)

Business Education (B.S.Ed)

### **MINORS:**

Accounting

## **ECONOMICS AND FINANCE**

**Chairperson: Rebecca Summary**

**Faculty: Fred Adjei, Michael Devaney, Bruce Domazlicky, Benjamin Dow, Brian Gehring, Peter Kerr, David Kunz, Kang Hoon Park, Willie Redmond, William Weber, David Yaskewich**

The department offers majors in economics and finance. The study of economics acquaints students with past and present national and world economic problems and with the tools of analysis economists use to understand these problems. The study of finance develops an understanding of financial institutions, capital markets and the financial structure of business. By offering majors on the B.S. and B.S.B.A. degrees, the department encourages students to tailor their plan of study to their future goals. The B.S. degree in Economics prepares students for graduate work in economics, or for the study of law. The B.S.B.A. in Economics or Finance is geared toward students with an interest in employment in the business world.

In order to provide quality instruction, faculty participate in instructional workshops, engage in research

designed to improve teaching skills and knowledge of subject matter, and participate in the development and teaching of interdisciplinary courses.

Students have experiential learning opportunities in addition to traditional internships. Economics majors have the opportunity to work with faculty on research projects that result in professional presentations and publications. Finance majors may choose coursework that allows them to participate in the management of a portfolio worth over \$600,000. Student organizations include Omicron Delta Epsilon, the national honorary society in economics, and the Finance and Economics Club which partners with the FMA Student Chapter in fostering interaction among students, faculty, alumni, and other professionals.

**MAJORS:**

Economics (B.S.)

Economics (B.S.B.A.)

Options: Business Economics

Financial Economics

Finance (B.S.B.A.)

**MINORS:**

Economics

Finance

## ***INTERNATIONAL STUDIES IN BUSINESS***

**Director: Peter Gordon**

The office of International Business Programs (IBP) is responsible for the international academic programs sponsored by the Harrison College of Business. IBP supports a wide variety of international experiences open to all majors and minors, including short-term, and semester long programs.

Short term programs are scheduled between the fall and spring semesters, over spring break, and during the summer. Partial and full semester study abroad opportunities and summer programs are available at a number of institutions in Europe and other locations with students paying only Southeast fees. Knowledge of a foreign language is not required to participate.

The college also hosts business students from other countries under special programs and exchange agreements.

## ***MANAGEMENT AND MARKETING***

**Chairperson: Judy Wiles**

**Faculty: Joel Bolton, James Caldwell, John Cherry, Kevin Dickson, Erin Fluegge-Woolf, Peter Gordon, Kenneth Heischmidt, Nancy LeGrand, Ismatilla Mardanov, Heather McMillan, James Ricks, Sandipan Sen, James Stapleton, Scott Thorne**

The study of management, marketing and international business is critical to success in the world of business. The aim of management is to ensure the organization is responsive to internal and external stakeholders. Management majors study the many faceted tasks of managers, including planning, organizing, staffing, directing and controlling. Marketing involves a set of processes for creating, communicating, and delivering value to customers and for managing customer relationships in ways that benefit the organization and its stakeholders.

The department coordinates the majors of management, marketing, business administration and international business. Majors from this department are prepared for entry-level management positions in both profit and not-for-profit organizations. Students selecting to major in Management concentrate in one of three options: Entrepreneurship, Human Resource Management or Management. Students choosing to major in Marketing concentrate in one of three options: Marketing Management, Integrated Marketing Communications or Sales Management. The Marketing Management option encompasses the breadth and diversity of marketing management activities. The option in Integrated Marketing Communications focuses on the management of developing effective integrated marketing communication strategies including techniques in advertising, professional selling, promotions, publicity and direct marketing. Sales Management involves leading and managing the personal selling efforts of an organization.

The Business Administration major is designed to provide a comprehensive understanding of the business process. This major accommodates business majors who need to take their courses online and is ideal for those seeking a general business major on a part-time basis.

The International Business major is interdisciplinary in nature and promotes an understanding of the cultural, financial, managerial, marketing and economic environment of international business.

The department administers several minors, including those closely related to majors in Marketing and

Management and three minors representing the broad discipline of business: Entrepreneurship, International Business and Business Administration. The Entrepreneurship minor focuses on the study of new venture development and effective small business management. The minor in Business Administration is designed for non-business majors who want to be better prepared for entry positions in business related to his/her major or to continue study in business at the graduate level. The minor in International Business emphasizes multi-disciplinary perspectives of international business practices.

The curriculum and instruction are designed to provide practical and professional experiences to students. Students have opportunities to work with actual businesses in select classes and complete an internship. Students also have opportunities to participate in our active student organizations: DECA, Redhawks CEO, HR Redhawks and the International Business Club. Activities by these organizations integrate and enhance the student's curriculum.

The department faculty have extensive teaching experience and regularly engage in scholarly research. The faculty are highly involved in providing service to the professional community at the local, regional, national and international levels.

#### **MAJORS:**

- Business Administration (B.S.B.A.)
- International Business (B.S.B.A.)
- Management (B.S.B.A.)
  - Options: Entrepreneurship
  - Human Resource Management
  - Management
- Marketing (B.S.B.A.)
  - Options: Integrated Marketing
  - Communications
  - Marketing Management
  - Sales Management

#### **MINORS:**

- Business Administration
- Entrepreneurship
- Human Resource Management
- International Business
- Management
- Marketing: Integrated Marketing Communications
- Marketing: Marketing Management
- Marketing: Retail Management
- Marketing: Sales Management

## **COLLEGE OF EDUCATION**

**Diana Rogers-Adkinson, Dean**

**Department of Educational Leadership and Counseling**

**Department of Elementary, Early and Special Education**

**Department of Middle & Secondary Education**

The College of Education offers instruction in programs that prepare teachers, school administrators, and counselors as “competent, reflective and caring professional educators.” Bachelor’s degree programs in Teacher Education provide for direct entry into careers and the base for advanced education. These programs include a strong University Studies component; skill in the art of teaching; sequenced integrated field-based experiences, and knowledge in a specialty area with a commitment to birth-grade 12 collaboration with area school districts. Master’s degree programs in teacher education, educational administration and counseling provide opportunities for advanced education. The Specialist’s degrees in Educational Leadership and Counseling Education are also the responsibility of the college. The cooperative doctoral program in Educational Leadership is provided through shared coursework, instruction and research oversight with the University of Missouri-Columbia.

The College of Education is fully accredited by the National Council for Accreditation of Teacher Education (NCATE) and approved by the Missouri Department of Elementary and Secondary Education (DESE). Additional, our programs enjoy national recognition for excellence by their respective specialized professional Associations (SPAs). Counselor Education is also recognized by CACREP accreditation.

The college faculty enjoys national visibility for many of its programs, faculty research and programmatic activities. The College has received recognition in International Education and as a past Christa McAuliffe Award. The college is an invited member of the Renaissance Group and is a member of the Teacher Education Council of State Colleges and Universities (TECSCU).

The college is a recognized leader in the International Reading Recovery Program. The Reading Recovery program is part of the Missouri Early Literacy Intervention Program (MSELIP).

Other noteworthy activities that enforce its accreditation objectives are:

- National Board of Professional Teaching Standards support program for area teachers;



- Regional Professional Development Center for area teachers, administrators, and counselors;
- Online and off-campus courses at the undergraduate and graduate level;
- International (50 countries) and American Indian Reservation student teaching opportunities;
- Transitional and Alternative Certification programs for non-traditional students;
- TWS/via Chalk and Wire
- National assessment of all earned degree graduates in teaching and education administration.
- High pass rates on licensure exams.

The college is committed to excellence in all areas of licensure. All candidates for teacher education licensure must pass the required state assessments. State Regulations can and do change and all teacher education candidates must meet the state of Missouri MOSPE standards to complete this program. Current Missouri requirements can be found online at <http://dese.mo.gov/eq/>. Education advisors support students in understanding how to meet those standards.

## ***EDUCATIONAL LEADERSHIP AND COUNSELING***

**Chairperson: Ruth Ann Roberts (Interim)**

**Faculty: Lisa Bertrand, Margaret Dalton, Ray Dowdy, Julieta Monteiro-Leitner, Margaret Noe, Melissa Odegard-Koester, Travis Smith, David Stader, Janice Ward, Paul Watkins**

The Department of Educational Leadership and Counseling offers primarily graduate course work. See Graduate Bulletin for available programs.

## ***ELEMENTARY, EARLY, AND SPECIAL EDUCATION***

**Chairperson: Julie Ray**

**Faculty: Nancy Aguinaga, Candee Baker, R. Larry Bohannon, Sharon Dees, Amy Freshwater, Cynthia Gordinier, Ann Graham, Sharon Gunn, Tahsin Khalid, Dixie McCollum, Debra Porter, Shonta Smith, Judy Thurston, Min Zou**

The Department of Elementary, Early, and Special Education provides programs for the preparation of teachers at the undergraduate level, and the improvement of teaching at the master's degree level. See

Graduate Bulletin for listing of all advanced programs. Included at both levels are elementary education (grades 1-6), early childhood (birth-grade 3) and education of exceptional children (K-12). The exceptional children program is a dual certification program: cross-categorical (K-12) and elementary education (grades 1-6). The early childhood education program provides instruction for birth-grade 3, with the option of adding elementary education (grades 1-6).

### **MAJORS:**

Early Childhood Education (B.S.Ed.)  
Elementary Education (B.S.Ed.)  
Exceptional Child (B.S.Ed.)

### **CERTIFICATE:**

Teaching Assistant Preparation Certificate –  
Elementary or Special Education

## ***MIDDLE & SECONDARY EDUCATION***

**Chairperson: Simin Cwick**

**Faculty: Jean Benton, William Bratberg, David Powell, Alberta Sautter**

Content Specialists: Daniel Beard, John Dudley, Patricia Farrish Daryl Fridley, Carol Horst, Debra Lee-DiStefano, David Mauk, Mary Mims, Seido Sofo, Candide Walton, Christine Warren, Margaret Waterman,

The Department of Middle & Secondary Education has joint responsibility with the relevant academic departments for 5-9, 9-12 and/or K-12 programs leading to certification in the areas listed below as well as Music Education (K-12) and Family and Consumer Sciences Education (Birth-12). Extensive field experiences are an integral part of each program. Additionally, a Master of Arts with a major in Educational Studies and Educational Technology and certifications in Teaching English to Speakers of Other Languages, and Speech and Language Specialist (K-12) are available for advanced study. All programs in teacher education meet state requirements for certification and are fully accredited by the National Council for the Accreditation of Teacher Education (NCATE).

Several student organizations are active. Among them are Kappa Delta Pi (founded in 1925 as the first honorary on campus), Student Missouri State Teachers Association (SMSTA), Missouri National Education Association (MNEA), Student International Reading Association, Student World Council for Curriculum and Instruction (SWCCI), and Student NCA.

### **MAJORS (B.S.Ed.) MUST BE CHOSEN FROM:**

Agriculture Education (9-12)	Mathematics Education (9-12)
Art Education (K-12)	Middle School Education (5-9)
Biology Education(9-12)	Music Education (K-12)

Business Education (9-12)

Chemistry Education (9-12)

English Education (9-12)

Family/Consumer Sci Ed (Birth-12)

French Education (K-12)

German Education (K-12)

Engineering/Technology Education (9-12)

Physical Education (K-12)

Physics Education (9-12)

Social Studies (9-12)

Spanish Education (K-12)

Unified Science-Biology (9-12)

Unified Science-Chemistry (9-12)

Unified Science-Physics (9-12)

**CERTIFICATE:**

Teaching Assistant Preparation Certificate – Middle or Secondary Education

## COLLEGE OF HEALTH AND HUMAN SERVICES

**Morris Jenkins, Dean**

**Department of Aerospace Studies**

**Department of Communication Disorders**

**Department of Criminal Justice and Sociology**

**Department of Health, Human Performance, and Recreation**

**Department of Human Environmental Studies**

**Department of Military Science**

**Department of Nursing**

**Department of Social Work**

The College of Health and Human Services is responsible for the management of departments and programs in the rapidly expanding health and human services fields. The College's mission is to provide leadership and support for the teaching, research, scholarship, and service responsibilities of its units.

The College is composed of applied professions that are committed to an interdisciplinary model of education and performance. It strives for an environment in which linkages with other programs, colleges, and schools are desired and encouraged. The College takes a leadership role in encouraging positive and collaborative working relationships between the University and the community.

The College shares the educational responsibility to make available to all students the intellectual resources that will add meaning and interest to their lives; to provide an education which will enable them to make important cultural, social, and economic contributions in their community and state; and to provide an education of a quality and scope that will prepare students for lifelong learning.

The College of Health and Human Services is student, community, and faculty-oriented. Its education is based in the academic disciplines and it graduates students with the flexibility and breadth to adapt to a rapidly changing, multicultural, and technologically

oriented environment. The curricula and programs of the College require a mastery of knowledge and problem-solving ability that is basic to human growth, development, and healthy functioning. The thrust of the College is to prepare an ethical professional who is equipped to provide service in a variety of settings, including businesses, homes, schools, hospitals, and community, social, and justice agencies. Health and human services encompass the concern with the quality of human life at all stages of development. These services are directed toward the total person, actualizing throughout the life cycle.

To achieve its mission and as a basis for planning, the College maintains eight purposes. The College will:

Provide undergraduate professional programs that are strongly grounded in liberal education and interdisciplinary cognate knowledge; provide experiences which develop excellent professional knowledge and skills; focus on interactive relationships between theory and practice; provide active experiential learning; develop broad holistic concepts of health and human services throughout the life span and among varying cultures and behaviors; and provide experiences which develop skills in communication, critical thinking and decision-making as they apply to the health and human services professions.

Provide graduate education in those professional areas where developing trends, manpower and regional needs justify and where college and institutional resources are of sufficient quality and quantity to support the development of advanced levels of professional and academic competencies.

Provide undergraduate and graduate programs that actively encourage equal access by a broadly diverse student population.

Design educational services and programs that interface with community, regional, and state agencies and businesses; that extend professional competencies and academic knowledge to constituent groups in the region; and that facilitate and support lifelong learning to enhance quality of life.

Contribute to the advancement of knowledge by facilitating and supporting research, scholarship, innovative teaching and creative endeavors, with appropriate dissemination throughout the college, university, region, state, nation, and world.

Provide educational leadership in health promotion and the enhancement of the human experience through strong participation in the liberal education of the university student and the total university community.

Encourage professional leadership in the university region, state, nation, and world, through active involvement in the development of research, policy, and legislation that impacts on the health and human services professions and which addresses unique health, social and economic issues in Southeast Missouri.

Maintain and establish professional accreditations, where appropriate and available, to ensure quality and excellence in the health and human services professions.

### ***AEROSPACE STUDIES***

One of four such Air Force ROTC programs in Missouri, Aerospace Studies is a voluntary course leading to a commission as an officer in the United States Air Force. Students not pursuing a commission are also welcome to take the classes. The program is divided into four courses covering an introduction to the US Air Force, Air Force history, leadership and management, national security affairs and preparation for active duty. Scholarships are available for qualified applicants.

#### **MINOR:**

Aerospace Studies

### ***COMMUNICATION DISORDERS***

#### **Chairperson: Thomas Linares**

**Faculty: Martha J. Cook, Jane Edwards, Marcia Brown Haims, Judy McLain, Jayanti Ray, Joyce Renaud, Kevin Squibb**

The Department of Communication Disorders provides students with a broad-based theoretical foundation in communication disorders at the undergraduate level. This includes a contemporary curriculum in normal processes of human communication as well as evaluation, treatment, and research into human communication and its disorders. Active learning experience is provided through a strong clinical training component within the Center for Speech and Hearing.

The graduate program in speech-language pathology is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. Upon completion of the graduate program, students are eligible for state and national certification. A broad selection of career choices is available for professional speech-language pathologists. Career opportunities exist in a variety of professional settings, including medical centers, higher education, community-state-federal health services agencies, public schools and private practice.

#### **MAJOR:**

Communication Disorders (B.S.)

#### **MINOR:**

Autism Studies

Communication Disorders

### ***CRIMINAL JUSTICE AND SOCIOLOGY***

#### **Chairperson: Diana Bruns**

**Faculty: Andrew Fulkerson, Michelle Kilburn, Carl Kinnison, Laura Krieger, Carol Veneziano, John Wade**

The Department of Criminal Justice and Sociology provides undergraduates in Criminal Justice with a core of courses central to the discipline of criminal justice. Students are also exposed to specialized courses as preparation for careers in law enforcement and corrections. The department serves more than 450 majors and a large number of students who enroll in criminal justice courses for elective credit.

The department has an internship program for Criminal Justice majors which provides students with an opportunity to observe professionals in their fields and with practical job experience. Students may continue course work at the graduate level by pursuing a Master of Science in Criminal Justice degree.

The Department offers minors in Criminal Justice, Criminology, Social Rehabilitation and Treatment, and Sociology. (Students who choose the Criminology option may not choose Criminology as a minor.)

The department is recognized for its sponsorship of national and regional meetings and its scholarly activity.

#### **MAJORS:**

Criminal Justice (B.S.)

Options:

Corrections

Criminology

Law Enforcement

#### **MINORS:**

Criminal Justice

Criminology

Social Rehabilitation and Treatment

Sociology

**HEALTH, HUMAN PERFORMANCE,  
AND RECREATION****Chairperson: Joseph Pujol****Faculty: Jeremy Barnes, Daniel Beard,  
Michael Church, Beth Easter, Beverly Evans,  
Thomas Holman, KT Kim, Mark Langenfeld,  
Steve Nickell, Annette Slattery, Seido Sofo, Jason  
Wagganer, Susan Wehring**

The Department of Health, Human Performance, and Recreation offers a variety of programs that prepare professionals to make an impact on health and wellness throughout the lifespan. Programs address quality of life, health and fitness, teaching, recreation, coaching, and sport issues. Coursework in all majors includes experiential learning opportunities and culminates in a capstone internship experience or student teaching. Graduates work in a wide array of settings including schools, park and recreation departments, sports organizations, youth agencies, sports medicine and rehabilitation centers, fitness and wellness facilities, and hospitals. Departmental facilities and equipment include well-equipped exercise physiology, bone density and athletic training laboratories, as well as a variety of outdoor recreation equipment, to support experiential learning activities. The Athletic Training Education, Physical Education and Recreation programs are fully accredited. The Sport Management major has received program approval from the Sport Management Program Review Council.

**MAJORS:**

Athletic Training (B.S.)

Health Management (B.S.)

Options:

Exercise Science

Health Promotion

Physical Education (B.S.Ed.)

Recreation (B.S.)

Sport Management (B.S.)

**MINORS:**

Coaching

Exercise Science

Health Promotion

Outdoor Adventure Leadership

Recreation

Sport Management

**PRE-PROFESSIONAL PROGRAM:**

Pre-Physical Therapy

**HUMAN ENVIRONMENTAL STUDIES****Chairperson: Shelba Branscum****Faculty: Mary E. Ambery, Quantella  
Anderson-Noto, Michelle Brune, Lisa Essmyer,  
Anthony Faber, Patricia Farrish, Marjorie  
Gardner, Sara Garner, Shelby Hicks, Billie  
Holshouser, Lee Anne Lambert, Anne Marietta,  
Lynn Moore, Carol Nesler, Sharo Shafaie, Robyn  
Standridge, Sara Starbuck, Angie Stiegemeier,  
Molly Timlin, Victor Wilburn,**

The mission of the Department of Human Environmental Studies is to improve the quality of life of individuals and families through courses, career-focused degree programs and service projects that address human needs for food, clothing, shelter and interpersonal relationships. The department is committed to an interdisciplinary model of education and performance. Programs in child development and family studies plus a minor in gerontology are available for those interested in human relationships. All programs include student involvement with model facilities. The Associate's degree in Child Care and Guidance was the first such program offered in Missouri.

Courses approved by the Behavior Analyst Certification Board (BACB) are offered, leading to certification as an assistant behavior analyst. The courses meet the eligibility requirement for taking the Board Certified Assistant Behavior Analyst Exam.

The Academy of Nutrition and Dietetics-accredited undergraduate program plus a post-baccalaureate internship in dietetics is offered by the Department. After completing a post-graduate internship, graduates are eligible to take the registration examination for the Registered Dietitian credential.

The Hospitality Management major prepares students for employment in Missouri's tourism industry. Internships are available through area hotels and restaurants. Close ties with industry are maintained though a student chapter of the Missouri Restaurant Association.

Fashion merchandising students combine a marketing/management background with their study to become professionals in the fashion world.

The Interior Design program is supported by the National Kitchen and Bath Association (NKBA) and is in the early stages of seeking CIDA accreditation.

The Family and Consumer Sciences Education degree meets the requirements of the Missouri Department of Elementary and Secondary Education. Students completing this program have a broad-based educational

background, in addition to the teaching certificate.

The Hoover Eldercare Center, a model day care program for senior citizens, offers students experience in working with the elderly. The University School for Young Children and the Child Development Center at Sikeston preschool laboratories, provide diverse practicum experiences for students. Programs administered by the department include Workshop on Wheels, EDUCARE, Senior Learning Program, APPLE, and the Horizon Adult Day Care Program.

**MAJORS:**

Hospitality Management (B.S.)  
Human Environmental Studies (B.S.)

Options:

Child Development  
Dietetics  
Family Studies  
Fashion Merchandising  
Interior Design

Family and Consumer Sciences  
Education (B.S.Ed.)

Child Care and Guidance (A.A.)

**MINORS:**

Child Development  
Family Economics & Management  
Family Studies  
Fashion Entrepreneurship  
Fashion Merchandising  
Gerontology  
Hospitality Management  
Interior Design  
Nutrition

## **MILITARY SCIENCE**

### **Program Director: Tyson Mele**

The Missouri Army National Guard Officer Leadership Development Program (SHOW-ME GOLD) offers the opportunity for professional development and leadership training to become an Army officer. The officer training program consists of credit-bearing classroom instruction, leadership laboratories, field training exercises, physical training and military leadership schools and training events. The Minor of Military Science focuses on the theory of leadership, progression of leadership, how to develop personal leadership style, military tactics, communication skills and application of leadership for both civilian professions and military service. There is no requirement to contract with the SHOW-ME GOLD program to attain the Minor of Military Science.

**MINOR:**

Military Science

## **NURSING**

### **Chairperson: Gloria Green**

**Faculty: Janet Adams, Cheryl Alberternst, Cheryl Essner, Linda Garner, Kathy Ham, Linda Heitman, Elaine Jackson, Brenda Johnson, Ellen O'Rourke, Bobbi Palmer, Desma Reno, Julie Sappington, Ann Sprengel, Lorrie Stinnett, Michele Tanz, Janet Weber, Madonna Weiss, Terri Woods**

The Department of Nursing offers two nursing degrees: a Bachelor of Science in Nursing (BSN), and a Master of Science in Nursing (MSN). The BSN is approved by the Missouri State Board of Nursing and accredited by the Commission on Collegiate Nursing Education (CCNE). The MSN is accredited by the Commission on Collegiate Nursing Education (CCNE). After passing the national examination, graduates of the BSN program are eligible to apply for licensure as Registered Professional Nurses in all 50 states and the U.S. territories. Within the Bachelor of Science in Nursing there is a baccalaureate completion (RN-BSN) option for registered nurses desiring a Bachelor of Science in Nursing. The RN-BSN option is offered as an on-line program. The focus of the Master's Program is advanced specialty role implementation. The MSN includes Family Nurse Practitioner and Nurse Educator options. For more information, see the Graduate BULLETIN.

The mission of the Southeast Missouri State University Department of Nursing is to educate baccalaureate and masters graduates to practice nursing within the context of knowledgeable caring. The department influences the health of the region and beyond by providing graduates who have demonstrated intellectual, personal and professional growth and can integrate theoretical knowledge, experiential learning and an interdisciplinary foundation. Faculty encourage graduates to pursue a career of lifelong learning.

**MAJOR:**

Nursing (B.S.N.)

## **SOCIAL WORK**

### **Chairperson: Michael D. Parker**

**Faculty: Dhira Crunkilton, Gerri DeLong Goldman, Priscilla Hornby, Jocelyn Martin, Kathie Miller, Tiffany Parker, Jack Stokes**

The principle educational goal of the social work program is to prepare graduates for competent, entry level generalist social work practice with individuals, families, groups, communities and organizations largely in the rural environment. The competency based cur-

riculum is grounded in the liberal arts and reflects the values of economic and social justice, human diversity, dignity and worth of the person, human rights, integrity and the importance of human relationships and service. The baccalaureate social work program is fully accredited by the Council of Social Work Education.

**MAJOR:**

Social Work (B.S.)

**MINOR:**

Social Work

## COLLEGE OF LIBERAL ARTS

### Francisco Barrios, Dean

**Department of Communication Studies**

**Department of English**

**Department of Global Cultures and Languages**

**Department of History**

**Department of Mass Media**

**Department of Political Science, Philosophy and Religion**

**Department of Psychology**

**Holland School of Visual and Performing Arts**

**Department of Art**

**Department of Music**

**Department of Theatre and Dance**

The College of Liberal Arts provides courses of study in the performing and visual arts, the humanities, and the behavioral and social sciences. Faculty in the 10 departments of the College teach the liberal arts curriculum offered for all students through the University Studies program. They also teach both in traditional and contemporary applied modes the various disciplines represented in the College, and provide disciplinary substance in art, English, French, German, music, social studies and Spanish for the teacher education program.

The roots of liberal arts education reach back to the classical Greek civilization, where the role of the autonomous individual thinker as an active social participant emerged. The arts, humanities, and social sciences have evolved as those fundamental disciplines which inquire into the nature and value of both individual and collective human experience in all of its creative and destructive manifestations. Teaching students to understand and exercise their individual creative capabilities in relation to their moral, political, and social responsibilities as citizens in a democratic and pluralistic environment is at the heart of the faculty's involvement in active learning and scholarship. Helping students reach their full potential for life-long learning and self-realization

in the various roles and careers they will pursue is the aim of liberal arts education.

Preparing students for direct entry into initial career employment or for advanced training is the purpose of the structured major programs offered by the College. Some programs of study, such as advertising, graphic design, video production, journalism, historic preservation, music education, and theatre, may lead to employment upon graduation from the baccalaureate curriculum. Other majors, such as communication studies, English, global cultures and languages, history, music, philosophy, political science, or psychology can prepare students for the world of work, for graduate study in that or a related field, or for professional training in law, business, medicine, or public administration.

The curricular objectives of the College of Liberal Arts are:

- To improve communication and critical thinking skills.
- To expand the ability to make sound evaluations, responsible judgments, and conscientious commitments.
- To develop aesthetic appreciation and artistic creativity.
- To imbue students with a sense of their history and an appreciation for the development and values of other societies and cultures as well as their own.
- To enable students to function more effectively and to provide leadership in both interpersonal and public situations.
- To instruct students in sophisticated intellectual modes of analysis and inquiry in order to improve their problem-solving ability and capacity to generate new knowledge.
- To provide learning environments that extend beyond the formal instruction of the classroom or studio into practical experiences and internships as well as the student's daily life.
- To create a community of scholars-teachers-learners in which faculty members and students participate mutually for their collective benefit and that of society at large.
- To help students integrate their varied courses of study in the university with the objectives of a liberal education for the purpose of achieving greater personal integrity.
- To continue to create new knowledge and share the expertise of the faculty, staff, and students with the community for its enrichment.

**ART****Chairperson: Caroline A. Kahler**

**Faculty: Louise Bodenheimer, Emily Booth, Emily Denlinger, Joni Hand, Benjie Heu, Carol Horst, Justin Miller, S. Kristin Powers Nowlin, Sarah A. Riley, Katherine Ellinger Smith, Chris Wubbena**

The Department of Art offers courses in graphic design, illustration, painting, drawing, ceramics, print-making, fiber, sculpture, watermedia, art education, digital art, art history, digital photography and web design. Following basic study in a foundation curriculum and upon passing the foundation review, students may choose an elective sequence of courses from six areas in the B.F.A. program or a program leading to a B.A. Liberal Arts degree, or electives leading to a B.S. in Education with a major in Art Education. Art history classes may be selected from a range of chronologically and conceptually diverse topics, from classical art to modern. Art majors are required to enter two works every year in the Juried Student Assessment Exhibition. B.F.A. majors must complete the senior B.F.A. studio capstone course with a culminating exhibition.

**MAJOR:**

Art (B.A., B.F.A., B.S.Ed.)

**MINOR:**

Art/Art History

Fine Arts Entrepreneurship

**COMMUNICATION STUDIES****Chairperson: Glen Williams**

**Faculty: Brooke Clubbs, Jennifer Icaza-Gast, Slavica Kodish, Jennifer Summary, Larry Underberg, Roseanna Whitlow**

The Department of Communication Studies offers majors in Communication Studies and Corporate Communication and minors in Communication for Legal Professionals and Communication Studies. In all of these programs, students study both classical and contemporary theories of human communication. By developing skills in interpersonal and small group communication, intercultural communication, organizational communication, and public communication, students prepare themselves for a variety of activities and careers which require skilled communicators, as well as the ability to participate more meaningfully in civic affairs. A forensics program, emphasizing debate activities, is available for students to test their knowledge and skills

in intercollegiate debate competition and is especially recommended for those planning a legal or political career. The forensics program and membership in Phi Kappa Delta, the forensics honorary, are open to majors and non-majors. COMMrades, a student organization sponsored by the department, provides many opportunities for community and university service and leadership training and experience.

**MAJORS:**

Communication Studies (B.A.)

Corporate Communication (B.S.)

**MINORS:**

Communication for Legal Professionals

Communication Studies

**ENGLISH****Chairperson: Carol Scates**

**Faculty: Roger Arpin, Carl Bloom, John Campbell, Stephanie Chamberlain, Daniel Crocker, Thomas Eaton, Robert Hamblin, Dale Haskell, Pennie Pflueger, Missy Phegley, Melanie Philipps, Debrah Raschke, Chris Rieger, Eric Sentell, Susan Swartwout, Irina Ustinova, Christine Warren, Lynn Watson, Deqi Zen**

Study in the Department of English centers on writing, literature, and linguistics. Those with special interest in composition will find courses in creative writing, practical and professional written communication, styles of writing, and rhetorical theory. For students whose primary interest is literature, the Department offers work in British, American, and World prose, poetry, and drama. Also available for those preparing to teach English are courses in techniques of teaching English, Linguistics, and studies in English as a Second Language.

**MAJORS:**

English (B.A.)

Options:

Literature

Writing

English (B.S.Ed.)

**MINORS:**

Literature

Small Press Publishing

TESOL

Writing

**CERTIFICATE:**

ESOL

## GLOBAL CULTURES AND LANGUAGES

**Chairperson: Leslee Pollina (Interim)**

**Faculty: Beth Adkins, Warren Anderson, Jennifer Bengtson, Gabriele Eckart, Debra Lee-DiStefano, Kimberly Louie, Margarita Merget, Alice Strange, Shu-Chuan Wang-McGrath**

The Department of Global Cultures and Languages offers a Bachelor of Arts degree with a major in Global Cultures and Languages with Options in Anthropology; Foreign Languages (with advising tracks in French, German, and Spanish); and Global Studies (with advising tracks in Chinese, Francophone, Germanic, Hispanic, and Japanese). A Bachelor of Science in Education degree (public school teaching) is also offered with majors in French, German, and Spanish. Minors are offered in Anthropology, Archaeology, French, German, Global Studies, and Spanish. Opportunities for study abroad are available through the department. A variety of internships are available to our majors. Through classroom work, field experiences, internships, and guided independent study, Anthropology Option students are trained in cultural studies and ethnographic methodology, archaeological theory and methods, physical anthropology and linguistics, toward preparation for an advanced degree in a specialized area of Anthropology or for an entry-level position in the field. The Foreign Language Option and the B.S.Ed. degree prepare students for graduate study and for entry-level positions in import/export, business, government, and teaching. The Global Studies Option provides students the opportunity to enhance their current academic program with an international and global emphasis. The program encourages students to expand their international awareness by providing national and global exposure to their career field.

### MAJORS

French (B.S.Ed.)  
 German (B.S.Ed.)  
 Global Cultures and Languages (B.A.)

Options:

Anthropology  
 Foreign Language  
 Global Studies  
 Spanish (B.S.Ed.)

### MINORS:

Anthropology  
 Archaeology  
 French  
 German  
 Global Studies  
 Spanish

## HISTORY

**Chairperson: Wayne H. Bowen**

**Faculty: Kathryne Beebe, Theresa Haug Belvin, J. David Cameron, John Chandler, Eric L. Clements, Adam Criblez, Dalton Curtis, Daryl Fridley, Laurie Hamblin, Erika Hosselkus, Steven Hoffman, Joel Rhodes, Lily Santoro**

The Department of History offers three undergraduate programs: Bachelor of Arts with a major in History, Bachelor of Science with a major in Historic Preservation and the Bachelor of Science in Education with a major in Social Studies. These degree programs provide superior training for graduate school and professional work, with each having a different focus. Department faculty teach and research in a wide variety of fields, including U.S. and local history, Latin American, modern and medieval Europe, women's history, social studies education, and historic preservation.

The B.A. program, the traditional major, prepares students for graduate school or immediate employment in a wide range of fields. Graduates have a successful record of admission to law school, graduate study in history, as well as to employment in government and the private sector.

The Historic Preservation program trains its graduates for employment in national and state parks, museums, archives, historic sites and in community-based non-profits engaged in protecting the nation's architectural and cultural heritage. With a strong emphasis on experiential learning, the HP program also includes exciting opportunities for internships. Past graduates have interned at Jamestown, Mastodon State Park, and the National Trust for Historic Preservation.

The Social Studies Education program prepares students to be secondary school teachers, through coursework and practical classroom experience. In cooperation with the Department of Middle and Secondary Education, the program provides mentoring, supervision and training in curriculum construction, effective teaching practices and classroom leadership. Graduates have become successful teachers in public and private schools throughout Missouri and the region.

### MAJORS:

Historic Preservation (B.S.)  
 History (B.A.)  
 Social Science (B.A.)  
 Social Studies (B.S.Ed.)

### MINORS:

Historic Preservation  
 History  
 Latin American Studies



**MASS MEDIA****Chairperson: John B. (Jack) Zibluk**

**Faculty: Tamara Zellars Buck, James Dufek, Susan Gonders Golike, Karie Hollerbach, Fred Jones, Don Jung, Bruce Mims, Michael Simmons, Ann White.**

The Mass Media program has a general core of study and options in Advertising, Multimedia Journalism, Public Relations, and Television & Film within the traditional framework of the liberal arts. The Mass Communication options are professional and are nationally accredited by the Accrediting Council on Education in Journalism & Mass Communications and certified by the Public Relations Society of America. These professional study options help equip students for careers in the mass media or support industries of advertising and public relations. There is also a minor in Mass Communication. In addition to formalized internships, laboratory experiences are available through the weekly student newspaper, the Arrow; a closed-circuit television channel; a department-operated low-power FM station, KDMC 103.7; the video production facility; and the student-run public relations firm.

**MAJORS:**

Mass Communication (B.S.)

## Options:

Advertising  
Multimedia Journalism  
Public Relations  
Television & Film

**MINORS:**

Mass Communication

**MUSIC****Chairperson: Dr. Kevin Hampton**

**Faculty: Brandon Christensen, Robert Conger, Peter Durov, Sara Edgerton, Robert Fruehwald, Chris Goeke, Marc Fulgham, Leslie Jones, Mary Mims, Shane Mizicko, Jeffrey Noonan, Martin Reynolds, Timothy Schmidt, James Sifferman, Paul Thompson, Matthew Yount**

The Department of Music offers the Bachelor of Arts in Music for students who wish to integrate music with studies in other disciplines; the Bachelor of Music for students who wish to perform professionally; and the Bachelor of Music Education for students who wish to teach public school music. All music degree

programs prepare students for graduate and advanced professional studies.

Through its wide variety of ensembles and liberal arts oriented music courses, the department provides opportunities for all students, regardless of academic major, to develop their musical potential, to pursue their musical interests and to fulfill their lifelong vocational and avocational musical goals. Through its varied activities, the department enriches the musical life of the university and the community.

Students who wish to declare music as their major must meet the admission requirements of the university and of the department. A performance audition before applied music faculty of the appropriate area is required. Acceptance in a music degree program is contingent upon the demonstration of a basic level of competency in a performance medium, the ability to read musical notation, the ability to hear and reproduce pitches, the recommendation of a music professional, and the approval of the music faculty. Specific audition and admission requirements may be obtained from the department office.

All students wishing to advance in each program of study must earn a grade of "C" or better in all courses in the major. Students who fall below 3.0 in the major will be placed on notice as subject to dismissal from their program of study after two successive semesters if the GPA has not been raised to 3.0. All students are advanced in applied music competency level by a juried performance at the end of each semester.

**MAJORS:**

Music (B.A.)

Music (B.M.)

## Options:

Composition  
Instrumental Performance  
Vocal Performance

Music Education (B.M.E.)

## Options:

Instrumental Performance  
Vocal Performance

**MINOR:**

Music

***POLITICAL SCIENCE, PHILOSOPHY  
AND RELIGION*****Chairperson: Hamner Hill**

**Faculty: Rickert Althaus, Gary Cesarz, Mitchel Gerber, Albert Hayward, Debra Holzhauer, Bronik Matwijkiw, Tomoaki Nomi, Bambi Robinson, Kevin Sexton, Patty Sharp, Brian Smentkowski, Jeremy Walling**

The Department of Political Science, Philosophy, and Religion offers both a Bachelor of Arts and a Bachelor of Science with majors in Political Science, a Bachelor of Arts with a major in Philosophy, and minors in Political Science, Public Administration, Philosophy, and Religious Studies. The department has all the major fields in Political Science: American Politics, Comparative Politics, International Relations, Political Theory, and Public Administration. The Department serves the University with pre-law advising to assist all students planning a legal career. The Public Administration Program focuses on public employment, and is strongly supported by internships in government and not-for-profit institutions. The Philosophy program includes study in the traditional areas of history, logic, and ethics, and offers advanced study in philosophy of law, aesthetics, philosophy of science and contemporary philosophy. The program is broad based and encourages the development of literary and conceptual skills together with appreciation for the best of humanistic scholarship. A major in philosophy provides excellent preparation for students wishing to do graduate work in philosophy, business and law. The department provides a strong contribution to the University Studies program with offerings at the upper and lower division aesthetics, philosophical classics, ethics, logic, American government, comparative politics, social philosophy, Old and New Testament literature and world religions. The department also offers a wide range of courses in applied ethics (business, environmental, media, and medical ethics), political theory, jurisprudence, and holocaust studies.

**MAJORS:**

Philosophy (B.A.)  
Political Science (B.A., B.S.)

**MINORS:**

Philosophy  
Religion  
Political Science  
Public Administration

***PSYCHOLOGY*****Chairperson: Leslee Pollina**

**Faculty: Douglas Atwood, Scott Brandhorst, Ken Callis, Lawrence Clark, Laura Delgado, Jennifer Gadberry, Shawn Guling, Michael Hamel, Jeremy Heider, Wayne Hoover, John Humrichouse, Norman Kinney, Gail Overbey, Rickard Sebby, William E. Snell, Jr., Dora Weaver**

The Department of Psychology offers an undergraduate major that leads to the Bachelor of Science degree. The goal of this program is to provide a common set of learning experiences that characterize the breadth and diversity of the discipline. The program establishes a solid foundation for a variety of career goals including those which involve graduate education in psychology. In addition to preparing our majors for graduate education and careers in human services, our courses support many other undergraduate programs including business, criminal justice, education, and nursing. Departmental courses also support graduate programs throughout the university and the core curriculum and upper-level interdisciplinary curriculum of the University Studies Program.

Faculty in the department represent a wide range of professional interests. Many are involved in professional activities, including both scholarly research and leadership in professional organizations. Numerous service activities are provided to the surrounding area by faculty members in the department.

The department sponsors two student organizations: Psychology Club and Psi Chi, the national honor society in psychology. Membership in the Psychology Club is open to all interested students; membership in Psi Chi is by invitation to students who meet its academic requirements. Both organizations provide opportunities for students to become involved in the discipline and profession of psychology. The department and student organizations coordinate the annual Southeast Missouri State University Student Research Conference.

**MAJOR:**

Psychology (B.S.)

**MINORS:**

Psychology: Applied  
Psychology: Developmental  
Psychology: General  
Psychology: Psychological Services

**THEATRE AND DANCE****Chairperson: Philip Nacy**

**Faculty: Alyssa Bolden, Michelle Contrino, Robert W. Dillon, Jr., Philip Edgecombe, Judith Farris, Amy Fritsche, Deana Luetkenhaus, Jeffrey Luetkenhaus, Joseph Mason, Hilary Peterson, Kenneth Stilson, Marc Strauss, Rhonda Weller-Stilson**

The Department of Theatre and Dance offers students an intensive professional training program in the performing arts within the context of a liberal arts education. The Bachelor of Fine Arts (BFA) is a professional degree designed to prepare students for entrance into the professional performing arts market, while the Bachelor of Arts (BA) degree prepares students for graduate programs or post-graduate professional internships. The BA is also intended for students wishing to pursue a career in video or film production, playwriting or screenwriting, or arts management by double-majoring in Mass Communication: Television and Film option, English: Creative Writing option, Management or Marketing.

The department's programming is divided into three major areas:

- academic, creative and technique training;
- production;
- career preparation.

Theatre and Dance offers a variety of sequential performance, theory, history and practical courses in theatre, dance and musical theatre. Each year, the department produces six major faculty-directed and choreographed productions, two student showcases, and numerous student-produced projects, resulting in ample opportunity for students to gain technical and performance experience in the River Campus for the Visual and Performing Arts, a new start-of-the-art professional facility with numerous classroom, construction, rehearsal and performance spaces. The department regularly incorporates outside professional companies and guest artists into its normal on-campus programming, and it strongly emphasizes student professional development through outside internships, master classes, intensives, conventions, festivals and professional employment.

**MAJORS:**

Dance (B.A., B.F.A.)

Theatre (B.A.)

Theatre (B.F.A.)

Options:

Acting

Design/Technology

Musical Theatre

**MINORS:**

Dance

Fine Arts Entrepreneurship

Theatre: Acting

Theatre: General

Theatre: Technical

**COLLEGE OF SCIENCE,  
TECHNOLOGY AND AGRICULTURE****Chris W. McGowan, Dean****Jai N. Dahiya, Associate Dean****Sophia Scott, Associate Dean****Department of Agriculture****Department of Biology****Department of Chemistry****Department of Computer Science****Department of Industrial & Engineering  
Technology****Department of Mathematics****Department of Physics and Engineering Physics****Program in Environmental Science**

The College of Science, Technology and Agriculture offers high-quality programs of instruction in the physical and natural sciences, environmental science, technology, agriculture, mathematics, and science education. The program in chemistry is certified by the American Chemical Society (ACS). The programs in Computer Science, Engineering Physics and Engineering Technology are accredited by the Computing Accreditation Commission, the Engineering Accreditation Commission and the Engineering Technology Accreditation Commission, respectively, of ABET, <http://www.abet.org>. Other programs in the Department of Industrial and Engineering Technology are accredited by the Association of Technology, Management and Applied Engineering (ATMAE). The foundation of these programs is an active faculty of teacher-scholars model supported by well-equipped laboratories. Modern technology, including up-to-date-computers, is integrated throughout the curricula and in faculty and student research. External funding of research in the College is substantial and increasing, providing outstanding opportunities for undergraduate research involvement. Industrial and Engineering Technology is home to a Missouri Center of Excellence in Advanced Manufacturing Technology. The David M. Barton Agriculture Research Center, Rice Research Station, the Charles Nemanick Alternative Agricultural Garden, and the Charles L. Hutson Horticulture Greenhouse in the Department of Agriculture provide excellent opportuni-

ties to combine classroom theory and practical experience. Additional service to our region is provided by the College through the Center for Environmental Analysis and the Applied Statistics Center. The College Advising Center provides excellent opportunities to students for selecting major fields of studies.

The curricular objectives of the College of Science, Technology and Agriculture are:

- To offer modern, current, and excellent instruction of adequate breadth in the respective disciplines.
- To maximize the learning experience of all students in the college utilizing scientific methods through provision of modern laboratory and field experiences of the highest quality.
- To promote the involvement of students in high quality experiential learning experiences including undergraduate research and/or internships.
- To promote the University Studies Program by offering various sections of UI 100 (First Year Seminar).
- To promote the offering of online/ITV instruction throughout the main campus as well as through extended learning.
- To provide alone, and in consort with other colleges, high quality pre-professional, vocational, and outreach programs of regional and timely significance.
- To provide exemplary instruction in science, mathematics, technology and agriculture for students satisfying University Studies requirements.
- To enhance access throughout the service region.
- To provide service to the region and enhance the University community.
- To promote international exchange of faculty and students.
- To promote diversity in terms of students, staff and faculty.
- To promote globalization in accordance with the mission of the University.
- To keep up with the University's strategic plan, program review and retention of undergraduate as well as graduate students policies and procedures.

## **AGRICULTURE**

**Chairperson: Michael Aide**

**Faculty: Donn Beighley, Indi Braden, David Mauk, Wesley Mueller, Sven Svenson, Julie Weathers**

The Department of Agriculture's teaching laboratories are supported by the new David M. Barton Agriculture Research Center, the Charles L. Hutson Horticulture Greenhouse, the turf plot facility, the Charles Nemanick Alternative Agriculture Gardens, the Rice Research Station and the All-America Selections Display Garden. An internship or undergraduate research project is required. The Department places a priority on interaction with students outside the classroom in experiential learning settings. Student groups, including the Agriculture Club, the Horticulture Club, the Pre-Veterinary Medicine Club, Delta Tau Alpha (national agriculture honorary society), and a Collegiate Farm Bureau chapter are actively supported.

### **MAJORS:**

Agribusiness (B.S.)

Options:

Agriculture Industry  
Animal Science  
Horticulture  
Plant & Soil Science  
Agriculture Education (B.S.Ed.)

### **MINORS:**

Agriculture  
Agriculture/Horticulture Entrepreneurship  
Companion Animals  
Horticulture  
Soils

### **PRE-PROFESSIONAL PROGRAMS:**

Pre-Veterinary Medicine

## **BIOLOGY**

**Chairperson: James Champine**

**Faculty: Allan Bornstein, Marilyn Burleson, Christina Frazier, Allen Gathman, Timothy Judd, John Kraemer, Rebecca Kurzhals, Walt Lilly, Blake McCann, Shannon McNew, Stephen Overmann, James Robins, John Scheibe, Dustin Siegel, David Starrett, Lucinda Swatzell, Michael Taylor, Margaret Waterman, Diane Wood**

The Department of Biology programs are supported by a 150-acre sanctuary known as the I.R. Kelso Wildlife Sanctuary, an 8-acre Juden Creek Natural History Area, and the 27-acre Miller Reserve. The sanctuary and the

surrounding area provide rich reserves for field studies. Students interested in wildlife biology will find opportunity to select an appropriate course of study. The Department is also affiliated with the Gulf Coast Research Laboratory (Mississippi) and the Reis Biological Station (Missouri Ozarks). These affiliations provide unique coursework opportunities. Student research opportunities are strongly encouraged by the faculty. Student interest groups such as the Biology Club, the Student Medical Society, Student Chapter of the Wildlife Society, Alpha Epsilon Delta (the pre-medical honorary society), and Tri-Beta (the biology honorary society), are supported by the Department.

**MAJORS:**

Biology (B.S.)

Options:

Biomedical Sciences

Marine Biology

Microbiology, Cellular and

Molecular Biology, and

Biotechnology

Organismal, Ecological, and

Evolutionary Biology

Pre-Physician Assistant

Wildlife and Conservation

Biology Education (B.S.Ed.)

Options:

Biology Education

Unified Science

**MINORS:**

Biological and Medical Sciences

Entrepreneurship

Biology

Botany

Microbiology

Zoology

**PRE-PROFESSIONAL PROGRAMS:**

Pre-Chiropractic

Pre-Dentistry

Pre-Medicine

Pre-Optometry

**CHEMISTRY**

**Chairperson: Philip Crawford**

**Faculty: Mohammed Ali, Marcus Bond, Adam Jacoby, Jim McGill, Chris McGowan, Bjorn Olesen, Michael Rodgers, Donna Speck, Rachel MorganTheall**

The Department of Chemistry is fully accredited by the American Chemical Society and provides students access to a program of study, facilities, and instructional

staff which meet the standards of the world's largest scientific society. The department also works with students interested in our Pre-Pharmacy and Medical Technology programs.

Our students interact and work closely with the faculty both in and out of the classroom. Many students work as laboratory assistants and graders. Students also work on research projects. They have opportunities to give presentations at professional meetings and to co-author published articles. The Missouri State Highway Patrol Troop E Crime Laboratory, which was formerly affiliated with the department, gives students opportunities to explore forensic science. Our student affiliate chapter of the American Chemical Society also promotes an interactive faculty-student environment through both professional and social activities.

**MAJORS:**

Chemistry (B.A.)

Options:

Business

Chemistry

Forensic Science

Chemistry (B.S.)

Options:

Chemistry

Biochemistry

DNA Analysis

Forensic Chemistry

Chemistry Education (B.S.Ed.)

Medical Technology (B.S.)

**MINOR:**

Chemistry

**PRE-PROFESSIONAL PROGRAM:**

Pre-Pharmacy

**COMPUTER SCIENCE**

**Chairperson: David Probst**

**Faculty: Suhair Amer, Ziping Liu, David Naugler, Carole Pfeiffer, Xuesong Zhang**

The Department of Computer Science has programs designed to prepare students with the skills and knowledge necessary for entry-level positions in a variety of computing areas, graduate study and their professional careers. The department offers two degree programs designed to produce graduates prepared to achieve the following objectives:

- Recognized by their peers and superiors for their technical skills in the computing field;
- Recognized by their peers and superiors for their professional skills in the computing field (e.g., communication, teamwork, leadership);

- Actively involved in local and regional professional service;
- Graduate students in computer science and related disciplines;
- Professionals actively engaged in activities which allow for the continuous development of their computing skills.

In addition, students will achieve a set of outcomes listed on the departmental website at [http://www.semo.edu/csdept/objectives\\_outcomes.htm](http://www.semo.edu/csdept/objectives_outcomes.htm). The Bachelor of Science with a major in Computer Science is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>. It emphasizes the theoretical underpinnings of Computer Science as well as specific application areas. The Computer Information Systems program has a solid foundation in Computer Science, but emphasizes application to a much greater extent. In fact, students are required to complete a minor in another field of interest to them as a way to gain exposure to fields in which they might apply their computing skills. The Computer Information Systems program is not accredited by ABET.

Employment opportunities remain high for program graduates. Minors in Computer Science and Information Systems are also available to those wishing to use computers in their chosen profession.

**MAJORS:**

Computer Information Systems (B.S.)  
Computer Science (B.S.)

**MINORS:**

Computer Science  
Information Systems

**ENVIRONMENTAL SCIENCE**

**Stephen Overmann, Director**

**Content Area Representatives: Christine Aide, Michael Aide, Mohammed Ali, Allen Bornstein, James Champine, Philip Crawford, Gary Cwick, William Eddleman, Christina Frazier, Hamner Hill, Debra Holzhauser, Tahsin Khalid, John Kraemer, Chris McGowan, David Starrett, John Tansil, William Weber, Diane Wood**

Environmental Science is an inter-departmental program based in the College of Science, Technology and Agriculture, but with participating faculty from other colleges within the University. Environmental issues are extraordinarily complex, involving scientific, economic, legal, ethical, health, and social concerns. The diversity of expertise among the environmental faculty is recognition of the need for a multi-disciplinary approach to environmental issues.

Assurance of a quality environment for ourselves and future generations must rank among the most important needs of society. Challenges to environmental quality are evident at the regional, state, national, and global levels. Governments, businesses and industries, and societal organizations at all levels have mobilized to meet these environmental challenges. Correspondingly, there is a societal need for personnel specifically educated and trained to act as leaders in efforts to address and resolve these difficult environmental issues.

The primary goal of the Environmental Science program is to prepare graduates for leadership positions in the environmental science professions in the 21st century. Graduates of the program will be prepared for competitive placement in entry-level positions in the environmental field and for competitive admission to graduate and professional school programs related to the environmental field.

**MAJOR:**

Environmental Science (B.S.)

**MINORS:**

Environmental Science  
Environmental Studies

**INDUSTRIAL & ENGINEERING TECHNOLOGY**

**Chairperson: Bradley Deken**

**Faculty: Vijay Anand, Khaled Bawaneh, Bryan Bowers, Gregory Boyd, Wendy Cooper, Robbie Davis, John Dudley, Deepak Gupta, Dan Lauder, Kevin McMeel, Belinda McMurry, Bradley Phillips, Sophia Scott, Shaojun Wang**

The Department of Industrial & Engineering Technology offers majors in Technology Management, Engineering Technology, Cybersecurity and Commercial Photography. The Technology Management program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE) and prepares technical and technical management-oriented professionals for employment in business, industry, education, and government. The Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>. The Department maintains a close association with local industry through an advisory committee, internship program and research programs. The department also hosts a variety of student extra-curricular activities through several student organizations. The Department is committed to providing students hands-on problem solving experience using the latest technologies. A high-tech Automated Manufacturing System Lab is

an example of technology available to students. The department also offers a Master of Science degree in Technology Management.

The major in Engineering Technology is designed around the following objectives:

- Communicate effectively.
- Gain technical proficiency in the engineering technology practice and engage in life-long learning.
- Effectively use technology for problem solving, decision making, implementation, management, and optimization of systems and processes.
- Work effectively in a team environment and understand the issues related to diversity and a global community
- Maintain the highest ethical and professional standards with commitment to protect the public interest, safety, and the environment.
- The major in Technology Management is designed around the following objectives:
- Apply theories, concepts, and principles in humanities, social and behavioral sciences to communicate effectively.
- Apply principles and concepts of mathematics, science, and computer applications for problem solving.
- Develop expertise in materials and production processes, industrial management, human relations, marketing, communications, electronics, graphics, computer applications, and industrial safety.
- Specialize in a technological field.

**MAJORS:**

Commercial Photography (B.S.)

Cybersecurity (B.S.)

Engineering Technology (B.S.)

Options:

Electrical & Control

Mechanical & Manufacturing  
Systems

Industrial Education (B.S.Ed.)

Technology Management (B.S.)

Options:

Computer and Multimedia  
Graphics

Construction Management &  
Design

Facilities Management &  
Sustainability

Industrial & Safety Management

Sustainable Energy Systems  
Management

Technology Management

Telecommunications and

Computer Networking

Computer Technology (A.A.S.)

Options:

Automated Manufacturing

Microcomputer Systems

Technical Computer Graphics

**MINORS:**

Architectural Design

Commercial Photography

Computer Networking

Electronic Technology

Graphic Communications Technology

Industrial and Engineering Technology

Entrepreneurship

Industrial Management

**PRE-PROFESSIONAL PROGRAM:**

Pre-Architecture

**MATHEMATICS**

**Chairperson: Tamela D. Randolph**

**Faculty: Henry Clark, Daniel Daly, Paul Deiermann, Avelina Lichtenegger, Cheryl McAllister, Ewelina McBroom, James McEwen, William McNeary, Peter Oman, Laurie Overmann, Craig Roberts, Ann Schnurbusch, Andrew Schwartz, Pradeep Singh, Linda Tansil, Caroline Thornburgh, Mohan Tikoo, Candide Walton, Haohao Wang, Jerzy Wojdylo, Yanping Xia**

The Department of Mathematics is supported by a computer laboratory and the Mathematics Learning Center. It offers a program in developmental mathematics to students with deficiencies in their preparation for college-level work. Independent investigations in mathematics are strongly encouraged by the faculty. In addition to its academic programs, the Department sponsors two student organizations called the Mathematics Club and the Student Association of Math Educators (SAME).

**MAJORS:**

Mathematics (B.S.)

Options:

Pure Mathematics

Applied Mathematics & Statistics

Mathematics (B.S.Ed.)

**MINOR:**

Mathematics

**PHYSICS & ENGINEERING PHYSICS****Chairperson: David Probst****Faculty: C. Christine Aide, Michael Cobb, Gary Cwick, Jai Dahiya, Santaneel Ghosh, Margaret Hill, Jian Peng, John Tansil, Yumin Zhang**

The Department of Physics and Engineering Physics offers three degree programs, all of which are designed to produce graduates prepared to achieve the following objectives:

- Graduates will be successful professionals.
- Graduates will be effective communicators.
- Graduates will be life-long learners.
- Graduates will be socially engaged citizens.

In addition, students will achieve a set of outcomes listed on the departmental website at <http://www.semo.edu/physics>. The Bachelor of Science degree in Engineering Physics is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>. The Engineering Accreditation Commission of ABET is the sole accrediting body for engineering programs in the United States. Engineering Physics is an interdisciplinary program that combines physics and computer, electrical or mechanical engineering, depending upon the option. Also offered are a Bachelor of Science degree in Physics and a Bachelor of Science in Education with a major in Physics. In addition, the department offers minors in Engineering Physics, Environmental Soil Science, Geoscience and Physics and it coordinates the pre-engineering program in which students study for two years at Southeast then transfer to an engineering school to finish their degree.

Well-equipped laboratories and a variety of audio-visual resources support instruction in the department. The use of computers is emphasized in all programs, both as instructional tools and as components of laboratory experiments. Student research and independent study are strongly encouraged and supported by the faculty. The department sponsors the Physics and Engineering Club, the Society of Physics Students, a national student organization, and Sigma Pi Sigma, the national physics honor society.

**MAJORS:**

Engineering Physics (B.S.)

Options:

Computer Applications

Electrical Applications

Mechanical Applications

Physics (B.S.)

Physics Education (B.S.Ed.)

**MINORS:**

Engineering Physics

Environmental Soil Science

Geoscience

Physics

**PRE-PROFESSIONAL PROGRAM:**

Pre-Engineering







*University Studies*

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**SCHOOL OF UNIVERSITY STUDIES**

**Francisco Barrios, Dean**  
**Wayne H. Bowen, Director**

**Center for Academic and Career Advising**  
**Center for Writing Excellence**  
**Testing Services**

**UI 100: First Year Seminar**  
**University Studies Program**

**UNIVERSITY STUDIES PROGRAM**

General or liberal education programs at most colleges and universities normally comprise about one-third of the baccalaureate curriculum. These programs are designed to provide the knowledge, skills, and experiences that are necessary to enable students to lead full and productive lives as educated men and women. At Southeast Missouri State University the liberal education program is called University Studies.

The overall theme of the University Studies Program is Understanding and Enhancing the Human Experience. The cornerstone of the University Studies program is the acquisition of knowledge and intellectual skills common to educated people. Students must become acquainted with the various methods of inquiry by which knowledge is created, organized, tested, and learned. Further, students must develop the ability to analyze, synthesize, and evaluate knowledge for use in making intelligent decisions. In other words, students must be equipped to make sound choices by critically thinking through a problem or issue and assessing the implications of possible solutions. To assist students in making sound decisions about complex matters, University Studies emphasizes the need to integrate knowledge from various academic disciplines to better understand and respond to issues and problems. University Studies is intended to foster students' abilities to use knowledge in ways that lead to a fulfilling and principled personal and civic life. The ultimate goal of the University Studies program is to help students live as responsible citizens in a democratic society.

Specific objectives of the University Studies program are:

- Demonstrate the ability to locate and gather information.
- Demonstrate capabilities for critical thinking, reasoning, and analyzing.
- Demonstrate effective communication skills.
- Demonstrate an understanding of human experiences and the ability to relate them to the present.

- Demonstrate an understanding of various cultures and their interrelationships.
- Demonstrate the ability to integrate the breadth and diversity of knowledge and experience.
- Demonstrate the ability to make informed, intelligent value decisions.
- Demonstrate the ability to make informed, sensitive aesthetic responses.
- Demonstrate the ability to function responsibly in one's natural, social and political environment.

The University Studies program consists of a total of 51 hours, including the

**FIRST YEAR INTRODUCTORY COURSE: 3 HOURS**

UI 100 First Year Seminar

**COMPOSITION COURSE: 3 HOURS**

EN 100 English Composition

**CORE CURRICULUM: 36 HOURS**

*(100-200 Level Courses. No more than SIX hours in one department.)*

Perspectives on Individual Expression	12 Hours
Perspectives on Natural Systems	12 Hours
Perspectives on Human Institutions	12 Hours

**INTERDISCIPLINARY CURRICULUM: 9 HOURS**

*(No more than THREE hours in department of major.)*

300 Level Courses	6 Hours
400 Level Senior Seminar	3 Hours

**CORE CURRICULUM THEME:**

**Acquisition of Knowledge:** Gaining Perspectives on the Individual, Society, and the Universe

**PERSPECTIVES ON INDIVIDUAL EXPRESSION**

**Artistic Expression**

*(Choose ONE Course)*

AR 108	Drawing in Society (3)
AR 111	Ceramics: A Metaphor for Understanding Human Experience (3)
AR 112	Perspectives in Art (3)
DA 100	Dance Appreciation (3)
DS 104	Exploring Interior Design (3)
FL 205	Art of French Cinema (3)
LI 205	The Art of Film (3)
MM 101	Theories of Music in Culture (3)
MU 181	Musical Encounters (3)
MU 182	Music: An Artistic Expression (3)
MU 190	Jazz Appreciation (3)
PG 284	Photography Fundamentals (3)

- PL 203 Aesthetics & the Arts (3)  
 TH 100 Theatre Appreciation (3)  
 TH 101 Acting for Non-Majors (3)

**Literary Expression***(Choose ONE Course)*

- FR 220 French Literature (3)  
 GN 220 German Literature (3)  
 LI 220 Fiction & the Human Experience (3)  
 LI 221 Poetry & the Human Experience (3)  
 LI 222 Mythic Dimensions of Literature (3)  
 LI 243 Children's Literature (3)  
 LI 256 The Variety of Literature (3)  
 MH 252 The Evolution of Musical Style Since 1827 (3)  
 PL 110 Readings in Philosophy (3)  
 RS 201 New Testament Literature (3)  
 RS 202 Old Testament Literature (3)  
 SN 220 Hispanic Literature (3)

**Oral Expression***(Choose ONE Course)*

- FR 100 French Language & Culture I (3)  
 FR 120 French Language & Culture II (3)  
 FR 200 French Language & Culture III (3)  
 GN 100 German Language & Culture I (3)  
 GN 120 German Language & Culture II (3)  
 GN 200 German Language & Culture III (3)  
 SC 105 Fundamentals of Oral Communication (3)  
 SC 107 Online Oral Presentations (3)  
 SC 155 Fundamentals of Interpersonal Communication (3)  
 SN 100 Spanish Language & Culture I (3)  
 SN 120 Spanish Language & Culture II (3)  
 SN 200 Spanish Language & Culture III (3)  
 SW 121 Helping Skills for the Human Services (3)

**Written Expression***(Choose ONE Course)*

- EN 140 Rhetoric & Critical Thinking (3)  
 PL 115 Philosophical Writing (3)

**PERSPECTIVES ON NATURAL SYSTEMS****Behavioral Systems***(Choose ONE Course)*

- AN 100 Found of Human Behavior: Sex/Aggression (3)  
 HL 120 Health Perspectives (3)  
 PL 204 Ethical Theory (3)  
 PY 101 Psych Perspectives/Human Behavior (3)  
 PY 120/  
     CF 120 The Child: Devel/Concep to Adolsc (3)  
 PY 151 Social Decision-Making (3)  
 PY 220 Psychological Devel Across Life Span (3)

- PY 222 Development of the Adolescent (3)

**Living Systems***(Choose ONE Course)*

- BI 151 Biological Reasoning (3)  
 BS 103 Human Biology (3)  
 BS 105 Environmental Biology (3)  
 BS 107 Investigations in Biology (3)  
 BS 108 Biology for Living (3)  
 BS 218 Biol Science: Process Approach (3)  
 FN 235 Nutrition for Health (3)

**Logical Systems***(Choose ONE Course)*

- CS 125 Computer Programming Logic (3)  
 MA 118 Mathematics I (3)  
 MA 123 Survey of Mathematics (3)  
 MA 134 College Algebra (3)  
 MA 155 Statistical Reasoning (3)  
 PL 120 Symbolic Logic I (3)

**NOTE:** In order to receive a degree from Southeast, students must pass MA 102 Intermediate Algebra or score at the appropriate level on a placement test to have the course waived. This requirement should be completed before attempting any course in the Logical Systems category. This requirement applies to all students regardless of major selected.

**Physical Systems***(Choose ONE Course)*

- CH 180 Chemistry in Our World (3)  
 CH 181 Basic Principles of Chemistry (5)  
 CH 185 General Chemistry I (5)  
 GO 150 Earth Science: Envir Hazards (3)  
 PH 106 Physical Concepts (3)  
 PH 109 Exploring the Universe (3)  
 PH 120 Introductory Physics I (5)  
 PH 218 Physical Science: A Process Approach (3)

**PERSPECTIVES ON HUMAN INSTITUTIONS****Development of a Major Civilization***(Choose ONE Course)*

- EH 101 Early European Civ (3)  
 EH 103 Modern European Civ (3)  
 EH 115 Ancient Greece & Rome (3)  
 GG 170 European Peoples & Civilization (3)  
 US 105 American History I (3)  
 US 107 American History II (3)  
 WH 100 African Civilization (3)  
 WH 110 Chinese Civilization (3)  
 WH 125 Islamic Civilization (3)  
 WH 130 Latin American Civilization (3)

**Economic Systems**

*(Choose ONE Course)*

- AG 201 World Food & Society (3)
- EC 101 Economic Problems & Policies (3)
- EC 215 Principles of Microeconomics (3)
- FE 200 Family Resource Management (3)
- MN 220 Engineering Economic Analysis (3)

**Political Systems**

*(Choose ONE Course)*

- PS 103 United States Political Systems (3)
- PS 104 Comparative Political Systems (3)

**Social Systems**

*(Choose ONE Course)*

- AN 101 Observing Other Cultures (3)
- AN 181 Cultural Anthropology (3)
- CD 110 Language & Culture of the Deaf (3)
- CF 102 Relationships in the 21st Century (3)
- GG 150 People & Places of the World (3)
- GG 180 Cultural Geography (3)
- MC 101 Mass Communication & Society (3)
- PE 201 Sport & Society (3)
- PL 245 Social Philosophy (3)
- RC 100 Leisure in a Diverse Culture (3)
- RS 101 World Religions (3)
- SE 275/  
EL 274 Diversity in American Schools (3)
- SO 102 Society, Culture, & Social Behavior (3)
- SO 120 Cities & Society (3)
- SW 207 Understanding Social & Cultural Diversity (3)

**INTERDISCIPLINARY CURRICULUM**

**THEME:** Integration of Knowledge: Living in an Interdependent Universe

**300 Level Interdisciplinary Courses**

*(Choose TWO Courses)*

- IU 300 Cyberlaw (3)
- IU 301 Historical Perspective: American Agriculture (3)
- IU 304 Gender and Intimacy (3)
- IU 305 Entrepreneurship (3)
- IU 306 Perspectives on Urban Design (3)
- IU 308 Compassionate Communication (3)
- IU 309. Writing for Science and Technology (3)
- IU 310. Government and Politics of East Asia (3)
- IU 314. GeoInfo Science Today (3)
- IU 315 Ethics in the Cyber World (3)
- UI 300 Drugs & Behavior (3)
- UI 301 Managerial Communication Processes (3)
- UI 303 The Female Experience (3)
- UI 304 The History & Culture of West Africa (3)
- UI 305 Judicial Reasoning (3)

- UI 306 Film and History (3)
- UI 307 Economic Geography (3)
- UI 308 Cult & Phys Landscapes of the World: A Geog Analysis (3)
- UI 309 Crime & Human Behavior (3)
- UI 310 The American Musical Experience (3)
- UI 312 Perspectives on the Present (3)
- UI 313 The African-American Experience (3)
- UI 315 Electronics & Computers in Music (3)
- UI 316 Contemporary Legal Studies (3)
- UI 317 Human Sexuality (3)
- UI 318 Earth Science: A Process Approach (3)
- UI 319 Science, Technology & Society (3)
- UI 320 The Modern Presidency (3)
- UI 322 International Political Economy (3)
- UI 330 Experimental Methods in Physics & Engineering I (3)
- UI 331 Found of Biochemistry (3)
- UI 332 Images of Women in Literature (3)
- UI 336 Religion in America (3)
- UI 337 Issues in Modern Architecture (3)
- UI 339 North American Indians (3)
- UI 340 Housing Perspectives (3)
- UI 341 Victorian Studies (3)
- UI 342 Modern Political Thought (3)
- UI 343 Transcultural Experience (3)
- UI 344 Plants & Humanity (3)
- UI 345 Nonverbal Communication (3)
- UI 347 Living in a Global Society (3)
- UI 349 Comparative Economic Systems (3)
- UI 350 Middle East Politics (3)
- UI 351 Public Opinion Management (3)
- UI 352 Medical Ethics (3)
- UI 354 Lifestyle Enhancement (3)
- UI 355 Consumer & the Market (3)
- UI 357 Early American Political Thought (3)
- UI 358 Foundations of Political Thought (3)
- UI 359 Consumers: Buying/Having/Being (3)
- UI 360 Recycling & Waste Management (3)
- UI 361 Contemporary Political Theory (3)
- UI 362 Contemporary French Culture (3)
- UI 366 Law & Economics (3)
- UI 368 Mind, Meaning, & Value (3)
- UI 369 Vice and Virtue (3)
- UI 370 Media Ethics (3)
- UI 371 Government and Business (3)
- UI 372 Earthquakes & Society (3)
- UI 373 Earth/Life Thru Time (3)
- UI 375 European Film (3)
- UI 378 Physics of Star Trek (3)
- UI 382 History and Philosophy of American Mass Media (3)

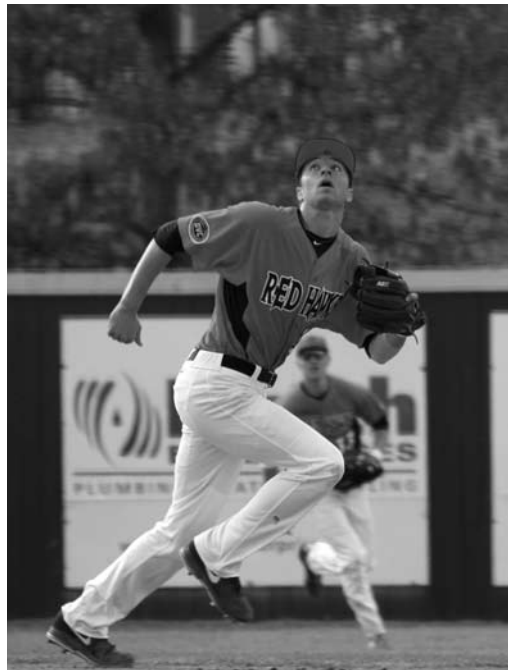
- UI 384 History of the Musical (3)
- UI 386 Environmental Health (3)
- UI 387 Environmental Law and Public Policy (3)
- UI 390 The Film Musical (3)
- UI 392 Age of Romanticism (3)
- UI 393 Age of Modernism (3)
- UI 394 Music and Culture: 1600-1750 (3)
- UI 396 The Age of Beethoven (3)
- UI 397 Music in Medieval & Renaissance Culture (3)

**Senior Seminar**

*(Choose ONE Course)*

- UI 400 Business & Ethics (3)
- UI 401 Amer Cult Landscapes: Reg Architecture & Settlement Sys (3)
- UI 402 Music in World Cultures (3)
- UI 406 Transforming the Female Experience (3)
- UI 407 Rational Endeavor (3)
- UI 410 Manufacturing Research in a Global Society (3)
- UI 412 American Health Care Systems and Issues (3)
- UI 414 The American Temper: Ideas in Conflict (3)
- UI 415 Science & Religion (3)
- UI 416 Planetary Exploration: From Galileo to the Present & Beyond (3)
- UI 418 European Mind (3)
- UI 422 Scientific Reasoning (3)
- UI 423 Political Communication (3)
- UI 425 Persuasion: Understanding, Practice & Analysis (3)
- UI 427 Service and Community (3)
- UI 429 Environmental Ethics (3)
- UI 430 Aging Successfully: Critical Issues Facing the Individual in the 21st Century (3)
- UI 431 Shakespeare's Tragedies & the Human Condition (3)
- UI 432 Shakespeare's History Plays & Comedies & the Human Condition (3)
- UI 433 Aesthetics of Movement: Athletic Dancers & Artistic Athletes (3)
- UI 435 Literature of Sport (3)
- UI 436 Agricultural Ethics (3)
- UI 438 The Nature & Growth of Mathematical Thought (3)
- UI 440 The Holocaust (3)
- UI 443 Professional Experience in Chemistry (3)
- UI 444 Americans and Their Institutions (3)
- UI 446 The Civil Rights Movement (3)
- UI 448 American Revolution Experience (3)
- UI 450 Capstone Experience (3)

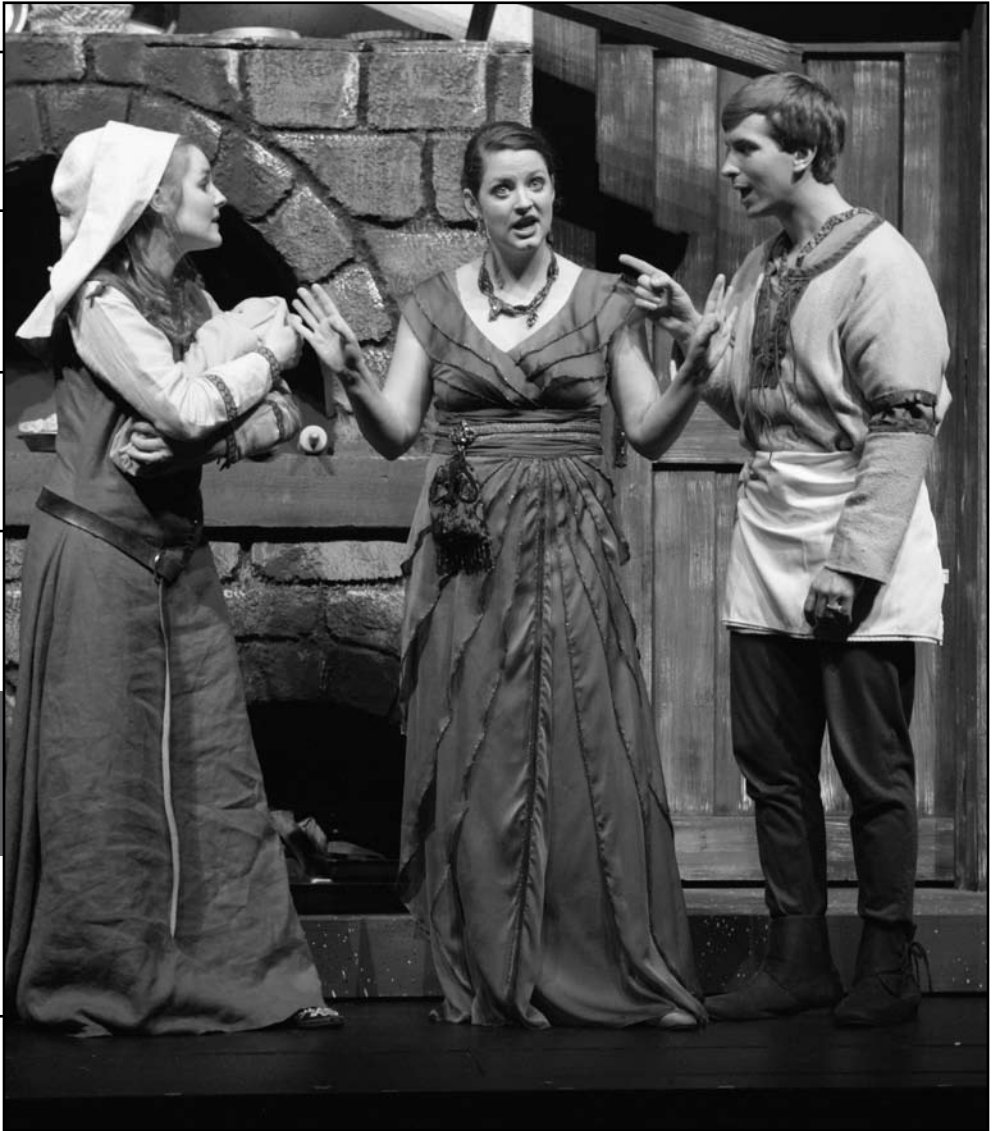
- UI 452 World Historical Geography (3)
- UI 454 Perspectives of Literacy: Challenges and Solutions (3)
- UI 455 Understanding Men and Male Development (3)
- UI 456 History of the Book (3)
- UI 500 History of the English Language (3)
- UI 501 Principles of Language (3)
- UI 504 Leaders of Social Change (3)
- UI 505 Health-Related Quality of Life Across the Lifespan (3)
- UI 506 Education, Law and Society (3)
- UI 508 African Americans During the Era of Segregation and Jim Crow (3)





*Degrees/Majors/Pre-Professional Curricula*

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## **BACCALAUREATE DEGREES**

The following statements pertain to all baccalaureate degrees:

- A minimum of 120 hours of undergraduate degree credit (courses numbered 100-599) is required.
- The University Studies Program, consisting of 51 hours, is required.
- A minimum of 30 hours must be completed in residence at Southeast.
- A minimum of 39 hours of senior college courses (300-599) must be completed after completion of 45 hours.
- 30 of the last 60 credits earned for a bachelor's degree that the institution awards must be earned at Southeast.
- The student's last term must be completed at Southeast, except that, in the case where six or fewer hours are needed to meet the total number of hours required for graduation, they may be taken at another accredited college or university, or by extension or correspondence subject to the rules governing extension courses and transfer of credit.
- Required completion of Student Transitions Career Proficiency Checks CL 001, CL 002, CL 003, and CL 004.
- Required completion of WP 003.
- Required completion of the Measure of Academic Proficiency and Progress (MAPP) at the freshman and senior levels.
- No more than one-half of the junior college and one-half of the senior college work on a major or minor may be taken by correspondence and/or extension.
- A minimum cumulative GPA of 2.0 is required for graduation, except for the B.S. in Education, the B.S. in Family and Consumer Sciences Education, the Bachelor of Music Education, the major in Communication Disorders, the major in Interdisciplinary Studies, the major in Mass Communication, and the Bachelor of Fine Arts in Theatre and in Dance which require a 2.5 GPA for graduation, the Bachelor of Science in Business Administration which requires a 2.25 GPA for graduation and the major in Social Work which requires a 2.25 GPA for graduation.
- A minimum 2.0 GPA for all of the degree credit attempted at Southeast is required.

- For all degrees which require a major, a minimum 2.0 GPA must be earned in those courses counted on the major, except for Business Administration majors which require a 2.25 GPA, majors on the Secondary Education degree, the Mass Communication major, the Health Management major, the Sport Management major, the Dance major and the Theatre major which require a 2.5 GPA, the Communication Disorders major which requires a 2.75 GPA, and the 2-Dimensional and 3-Dimensional Art majors, BFA-Dance and Theatre majors, all Music majors, Human Environmental Studies: Dietetics Option and the Social Studies Education major which require a 3.0 GPA.
- A minimum 2.0 GPA must be earned in those courses completed at Southeast that are counted on the major.
- When applicable, a course may be counted toward more than one requirement, e.g., University Studies, major and minor.
- The student must pass EN 099 and MA 102 or score at the appropriate levels on placement tests to have the courses waived.

**NOTE:** There may be additional specific graduation requirements for individual programs. Further information is available in the College Advising Offices.

## **DEGREES/MAJORS**

The Colleges of the University and the School of University Studies offer majors in many fields to meet the diverse needs of its student population. Information regarding degrees and majors is available from the individual departments and from the following Advising Centers:

### **Donald L. Harrison College of Business (Bus)**

Dempster Hall, room 123  
Telephone (573) 651-5090

### **College of Education (Ed)**

Scully Building, room 309  
Telephone (573) 651-2128

### **College of Health & Human Services (H&HS)**

University Center, room 209  
Telephone (573) 651-2015

### **College of Liberal Arts (Lib Arts)**

University Center, room 209  
Telephone (573) 651-2007

**College of Science, Technology & Agriculture (ST&A)**

Rhodes Hall, room 117  
 Telephone (573) 651-2173  
 Seabaugh Polytechnic Building, room 118  
 Telephone (573) 651-5930

**School of University Studies**

University Center, room 209  
 Telephone (573) 986-7328

**The requirements for the majors are listed alphabetically under the appropriate degree:**

<b>Degree</b>	<b>Page</b>
Bachelor of Arts (BA)	81
Bachelor of Fine Arts (BFA)	87
Bachelor of General Studies (BGS)	89
Bachelor of Science (BS)	89
Bachelor of Science in Bus Admin (BSBA)	108
Bachelor of Science in Education (BSED)	111
Bachelor of Family & Consumer Sciences Education (BFCSE)	120
Bachelor of Music Education (BME)	121
Bachelor of Music (BM)	122
Bachelor of Science in Nursing (BSN)	122
Associate degrees (AA, AAS)	123

**Note:** A maximum of 30 semester hours of business courses (AC, AD, BA, BL, FI, MG, MK, QM prefixes) may be taken by nonbusiness majors.

**MAJOR/DEGREE DEPARTMENT/COLLEGE**

Accounting/BSBA	Accounting/Bus
Advertising	(see Mass Communication)
Agribusiness/BS	Agriculture/ST&A
Agriculture Industry	
Animal Science	
Horticulture	
Plant & Soil Science	
Agricultural Education/BSED	Agriculture/ST&A
Animal Science	(see Agribusiness)
Art/BA, BFA, BSED	Art/Lib Arts
Athletic Training/BS	Health, Hum Perf & Rec/H&HS
Biology/BS, BSED	Biology/ST&A
Business Administration/BSBA	Harrison College of Business
Business Education/BSED	Accounting /Bus
Chemistry/BA, BS, BSED	Chemistry/ST&A
Child Care & Guidance/AA	Human Envir. Studies/H&HS
Child Development	(see Human Envir. Studies)
Commercial Photography/BS	Industrial Technology/ST&A
Communication Disorders/BS	Comm Disorders/H&HS
Communication Studies/BA	Communication/Lib Arts
Computer/Multimedia Graphics	(see Industrial Technology)
Computer Information Systems/BS	Computer Sci/ST&A
Computer Science/BS	Computer Sci/ST&A
Computer Technology/AAS	Industrial Technology/ST&A
Construction Mgmt & Design	(see Industrial Technology)
Corporate Communication/BS	Communication/Lib Arts
Criminal Justice/BS	Crim Justice & Sociology/H&HS

Corrections	
Criminology	Law Enforcement
Cybersecurity/BS	Industrial Technology/ST&A
Dance/BA, BFA	Theatre & Dance/Lib Arts
Dietetics	(see Human Envir. Studies)
Early Childhood Educ/BSED	Erly, Elem & Special Educ/Ed
Economics/BS	Economics & Finance/Bus
Economics/BSBA	Economics & Finance /Bus
Business Economics	
Financial Economics	
Elementary Education/BSED	Erly, Elem & Special Educ/Ed
Engineering Physics/BS	Physics & Engr Physics/ST&A
Computer Applications	
Electrical Applications	
Mechanical Applications	
Engineering Technology/BS	Industrial Technology/ST&A
Electrical & Control	
Mechanical/Manufacturing Systems	
Engineering Technology Education/BSED	Industrial Technology/ST&A
English/BA, BSED	English/Lib Arts
Literature	
Writing	
Entrepreneurship	(See Management)
Environmental Science/BS	Environmental Sci/ST&A
Exceptional Child Educ/BSED	Erly, Elem & Special Educ/Ed
Family & Consumer Sciences	Human Envir. Studies/H&HS
Educ/FCSE	
Family Studies	(see Human Envir. Studies)
Fashion Merchandising	(see Human Envir. Studies)
Finance/BSBA	Economics & Finance /Bus
Fine Arts/BFA	College of Liberal Arts
French/ BSED	Global Cult & Lang/Lib Arts
General Studies/BGS	University Studies
German/BSED	Global Cult & Lang/Lib Arts
Global Cultures & Languages/BA	Global Cult & Lang/Lib Arts
Anthropology	
Foreign Language	
Global Studies	
Health Management/BS	Health, Hum Perf & Rec/H&HS
Exercise Science	Health Promotion
Historic Preservation/BS	History/Lib Arts
History/BA	History/Lib Arts
Hospitality Mgt/BS	Human Envir. Studies/H&HS
Human Environmental Studies/BS	Human Envir. Studies/H&HS
Child Development	
Dietetics	
Family Studies	
Fashion Merchandising	
Interior Design	
Horticulture	(see Agribusiness)
Human Resource Management	(See Management)
Industrial Management	(see Industrial Technology)
Interdisciplinary Studies/BS	University Studies
International Business/BSBA	Mgmt & Mktg/Bus
Interior Design	(see Human Envir. Studies)
Management/BSBA	Mgmt & Mktg/Bus
Entrepreneurship	
Human Resource Management	
Management	
Marketing/ BSBA	Mgmt & Mktg/Bus
Integrated Marketing Communication	
Marketing Management	
Sales Management	
Mass Communication	Communication/Lib Arts
Advertising/BS	
Multimedia Journalism/BS	

Public Relations/BS Television & Film/BS	
Mathematics/BS	Mathematics/ST&A
Applied Mathematics & Statistics	
Pure Mathematics	
Mathematics/BSED	Mathematics/ST&A
Medical Technology/BS	Chemistry/ST&A
Middle School Education	
Middle & Secondary Ed/Ed	
Multimedia Journalism	(see Mass Communication)
Music/BA	Music/Lib Arts
Music/BM	Music/Lib Arts
Composition	
Instrumental Performance	
Vocal Performance	
Music Education/BSE	Music/Lib Arts
Instrumental	
Vocal	
Nursing/BSN	Nursing/H&HS
Philosophy/BA	Pol Sci, Phil & Religion /Lib Arts
Physical Education, PK-12/BSED	Health, Hum Perf & Rec/H&HS
Physics/BS, BSED	Physics & Engr Physics/ST&A
Political Science/BA, BS	Pol Sci, Phil & Religion/Lib Arts
Psychology/BS	Psychology/Lib Arts
Public Relations	(see Mass Communication)
Recreation/BS	Health, Hum Perf & Rec/H&HS
Secondary Education	(see specific major)
Social Science/BA	History/Lib Arts
Social Studies/BSED	History/Lib Arts
Social Work/BS	Social Work/H&HS
Spanish/ BSED	Global Cult & Lang/Lib Arts
Sport Management/BS	Health, Hum Perf & Rec/H&HS
Technology Management/BS	Industrial Technology/ST&A
Computer & Multimedia Graphics	
Construction Management and Design	
Facilities Management & Sustainability	
Industrial & Safety Management	
Sustainable Energy Systems Management	
Technology Management	
Telecommunication & Computer Networking	
Telecomm & Computer Networking	(see Industrial Technology)
Theatre/BA	Theatre & Dance/Lib Arts
Theatre/BFA	Theatre & Dance/Lib Arts
Acting	
Design/Technology	
Musical Theatre	
Television & Film	(see Mass Communication)

- Communication Studies
- Dance
- English
  - Options: Literature
  - Writing
- Global Cultures & Languages
  - Options: Anthropology
  - Foreign Language
  - Global Studies
  - History
- Music
- English
- Philosophy
- Political Science
- Social Science
- Theatre

## ART

### 36 Hour Major Minor Required

(see also Bachelor of Fine Arts degree)

Required Courses:

- AR 001 Freshman Core Review (0)
- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 100 Drawing I (3)
- AR 104 Design Foundations (3)
- AR 106 3D Foundations (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II (3)
- AR 325 Painting (3)
- AR 332 Sculpture I (3)

**Choose 6 Hours Additional Art History Courses (300-500 level)**

**Choose 3 to 19 hours of art/art history electives. Every year, two pieces of artwork must be entered in the Juried Student Assessment Exhibition.**

## BACHELOR OF ARTS DEGREE

Primarily for students who major in the arts, language, or literature, history and certain social sciences; often selected as a pre-professional degree by those who wish a broad education.

The areas from which majors must be chosen are:

- Art
- Chemistry
  - Options: Business
  - Forensic Science

## CHEMISTRY

### 34 Hour Major Required Core Courses

- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)
- CH 311 Found of Physical Chem (4)
- CH 313 Physical Chem Lab (3)
- CH 341 Found of Organic Chem (4)

- CH 342 Organic Chemistry Lab I (1)  
 CH 498 Professional Presentation in Chemistry (1)  
 CH 531/UI 331 Found of Biochemistry (3)  
 UI 443 Professional Experience in Chemistry (3)

**Additional Requirements: 13 hours**

- MA 139 Applied Calculus (3)  
 PH 120 Introductory Physics I (5)  
 PH 121 Introductory Physics II (5)

**Choose One Option: BUSINESS\*\***

- AC 221 Principles of Accounting I (3)  
 AC 222 Principles of Accounting II (3)  
 IS 175 Information Systems I (3)  
 EC 215 Principles of Microeconomics (3)  
 EC 225 Principles of Macroeconomics (3)  
 FI 361 Financial Management (3)  
 QM 257 Business Statistics (3)

**OR**

- MA 223 Elementary Probability and Statistics (3)  
 MG 301 Management and Organizational Behavior (3)  
 MI 375 Management Information Systems (3)  
 MK 301 Principles of Marketing (3)

*\*\*Upon completion of the B.S. in Chemistry (Business Option), students may apply directly to the MBA program at Southeast. For more information about the MBA degree program, contact the MBA office in the Robert A. Dempster Hall at Southeast Missouri State University.*

**CHEMISTRY OPTION – minor required**

- CH 533 Biochemistry Lab (2)

**FORENSIC SCIENCE OPTION – no minor required**

- CH 420 Forensic Chemistry (4)  
 CJ 100 Introduction to Criminal Justice (3)  
 CJ 350 Criminalistics (3)  
 FS 550 Crime Laboratory I: Microscopy (2)  
 FS 552 Crime Laboratory II: Blood and Fluids (2)

**Take one of the following courses:**

- CH 575 Chemical Instrumentation (4)

**OR**

- EV 460 Introduction to Toxicology (3)

**COMMUNICATION STUDIES****30 Hour Major - Minor Required****Required Courses:**

- SC 001 Exit Interview (0)  
 SC 105 Fund of Oral Communication (3)

**OR**

- SC 155 Fund of Interspers Communication (3)  
 SC 200 Advanced Public Speaking (3)  
 SC 320 Group Comm & Decision-Making (3)  
 UI 345 Nonverbal Communication (3)  
 UI 425 Persuasion (3)

**OR**

- SC 560 Organizational Communication (3)

**Choose 15 Hours from the Following:**

- SC 215 Intercultural Communication (3)  
 SC 310 Speech Writing (3)  
 SC 314 Argumentation & Problem Solving (3)  
 SC 330 Corporate & Professional Comm (3)  
 SC 335 Interviewing (3)  
 SC 355 Relational Comm Strategies (3)  
 SC 360 Experiential Comm Proj (1-3)  
 SC 406 Negotiation & Conflict Mgmt (3)  
 SC 463 Independent Study (3)  
 SC 482 Special Problems in Comm Studies (3)  
 SC 483 Internship in Speech Comm (3)  
 SC 510 Leadership & Team Building (3)  
 SC 560 Organizational Communication (3)  
 UI 301 Managerial Communication (3)  
 UI 320 Modern Presidency (3)  
 UI 423 Political Communication (3)  
 UI 425 Persuasion (3)  
 UI 504 Leaders of Social Change (3)

**DANCE****47 Hour Major - Minor Required****Required Courses:**

- DA 105 Rehearsal & Production I (2)  
 DA 280 Movement Analysis (3)  
 DA 282 Movement Improvisation (3)  
 DA 290 Dance in World Cultures (3)  
 DA 305 Rehearsal/Production II (6)  
 DA 380 Choreography I (3)  
 DA 430 Princ of Teaching Dance (3)  
 DA 485 Choreography II (3)  
 DA 490 Dance History (3)

**Choose 6 hours\*:**

- DA 211 Ballet I (2)  
 DA 311 Ballet II (2)  
 DA 411 Ballet III (2)

**Choose 6 hours\*:**

- DA 221 Modern Dance I (2)  
 DA 321 Modern Dance II (2)  
 DA 421 Modern Dance III (2)

**Choose 6 hours\*:**

- DA 226 Jazz Dance I (2)  
 DA 326 Jazz Dance II (2)  
 DA 426 Jazz Dance III (2)

*\*4 hours must 300-400 level*

**Additional requirement:**

- UI 384 History of the Musical (3)

**OR**

- UI 433 Aesthetics of Movement (3)

**ENGLISH**

**36 Hour Major - Minor Required**

**Required Courses:**

**Writing (Choose 6 hours):**

- EN 201 Writing About Literature (3)
- EN 275 Intro to Creative Writing (3)
- EN 376 Advanced Composition\* (3)

*\*Required for Writing option*

**Surveys (Choose 9 hours):**

- LI 260 English Lit I (3)
- LI 261 English Lit II (3)
- LI 270 American Lit I (3)
- LI 271 American Lit II (3)

**World Survey (Choose 3 hours):**

- LI 311 World Literature I (3)
- LI 312 World Literature II (3)

**Language (Choose 3 hours):**

- EN 486 Sociolinguistics (3)
- UI 500 History of the English Language (3)
- UI 501 Principles of Language (3)

**Choose One 15 Hour Option:**

**LITERATURE OPTION**

**Early English Literature (Choose 3 hours):**

- LI 560 Chaucer (3)
- LI 577 Studies in Early English Lit (3)
- UI 431 Shakespeare Tragedies & Hum Cond (3)
- UI 432 Shakespeare Hist/Comed & Hum Cond (3)

**Late English Literature (Choose 3 hours):**

- LI 476 Early Twentieth-Century British Literature (3)
- LI 578 Studies in Later English Lit (3)
- UI 341 Victorian Studies (3)

**American Literature (Choose 6 hours):**

- LI 421 Cross-Cultural Amer Voices (3)
- LI 565 Southern Literature (3)
- LI 568 19th Century American Novel (3)
- LI 570 Modern/Contemp American Novel (3)
- LI 571 Contemporary American Poetry (3)
- LI 576 Am Fiction/21st Century (3)

**World Literature (Choose 3 hours):**

- LI 510 Literature & the Bible (3)
- LI 572 The Modern Essay (3)
- LI 574 Australian Literature (3)
- LI 587 Women and Madness (3)
- UI 332 Images of Women in Literature (3)

**WRITING OPTION**

**Writing Techniques (Choose 3 hours):**

- EN 376 Advanced Composition\* (3)
- EN 550 Style in Writing (3)
- LI 572 The Modern Essay (3)

*\*Unless taken in the core*

**American Literature (Choose 3 hours):**

- LI 421 Cross-Cultural Amer Voices (3)
- LI 542 Literature for the Young Adult (3)
- LI 565 Southern Literature (3)
- LI 570 Modern/Contemp American Novel (3)
- LI 571 Contemporary American Poetry (3)
- LI 576 Am Fiction/21st Century (3)

**Professional Writing (Choose 3 hours):**

- EN 301 Writing for Science & Technology (3)
- EN 311 Literary Manuscript Editing Practicum (3)
- EN 435 Internship in English (3)
- LI 301 Small Press Publishing (3)

**Creative Writing (Choose 3 hours):**

- EN 470 Advanced Creative Writing: Poetry (3)
- EN 478 Advanced Creative Writing: Fiction (3)

**Choose 3 additional hours writing course not taken above**

**Additional Requirements:**

- EN 001 Writing Portfolio (Writing Option)
- LI 001 Literature Portfolio (Literature Option)
- xx xxx 9 Hours in One or Two Foreign Languages (All Options)

**OR**

- xx xxx 6 Hours in One Foreign Language

**AND**

**One of the following:**

- AN 341 Intro to Linguistic Anthropology (3)
- EN 378 Grammars of English (3)
- EN 486 Sociolinguistics (3)\*
- UI 500 History of the English Language (3)\*
- UI 501 Principles of Language (3)\*

*\*If not taken elsewhere in the major*

**GLOBAL CULTURES AND LANGUAGES**

**45-48 Hour Major – Minor Required**

**Required Courses:**

- AN 101 Observing Other Cultures (3)
- AN 181 Intro to Cultural Anthropology (3)
- FR/GN/SN 220 French/German/Hispanic Lit (3)\*\*

**OR**

- LI 220 Fiction & the Human Experience (3)
- 9 Hours of Same Foreign Language\*
- Other Foreign Language (3)

**OR**

- GG 150 Peoples & Places of the World (3)\*\*
- PS 104 Comparative Political Systems (3)

*\*When choosing the Foreign Language or Global Studies option, language taken must match the track that is chosen.*

*\*\*GG 150 required for Global Studies Option.*

**Choose One Option:****ANTHROPOLOGY OPTION (24 Hours):**

- AN 180 Intro Phys Anthro/Archaeology (3)  
 AN 317 Ethnographic Field Methods (3)  
 AN 341 Intro to Linguistic Anthro (3)  
 AN 380 Human Evol & Adaptations (3)  
 AN 382 Archaeology: Method & Theory (3)  
 AN 493 Anthro Theory Sem: Cultural/Linguis (3)

**OR**

- AN 4xx Anthro Theory Sem: Phys/Archaeology (3)

**Approved Anthropology Electives (6)\*\*\*****FOREIGN LANGUAGE OPTION (24 Hours):****French Track: Required Course:**

- FR 001 French Exit Exam (0)

**Choose 24 hours:\*\*\*\***

- FL 311 Survey/French/German/Spanish Lit (3)  
 FL 400 Practicum in Foreign Language (3)  
 FL 852 Field Exp in Foreign Language (3)  
 FR 301 Interm French Composition (3)  
 FR 302 Exp French Lang & Culture (1)  
 FR 305 Conversational French (3)  
 FR 306 Contemporary France (3)  
 FR 311 Survey of French Lit II (3)  
 FR 315 Commercial French (3)  
 FR 320 French Pronunciation/Phonetics (3)  
 FR 330 French Grammar (3)  
 FR 402 Independent Study in French (3)  
 FR 415 17th Century French Lit (3)  
 FR 430 20th Century French Lit (3)  
 FR 495 Foreign Lang Internship in French (3)

**German Track:****Required Course:**

- GN 001 German Exit Exam (0)

**Choose 24 hours:\*\*\*\***

- FL 311 Survey/French/German/Spanish Lit (3)  
 FL 400 Practicum in Foreign Languages (3)  
 GN 301 German Composition (3)  
 GN 302 Exp German Lang & Culture (1)  
 GN 305 Conversational German (3)  
 GN 310 Survey of German Lit I (3)  
 GN 311 Survey of German Lit II (3)  
 GN 315 Commercial German (3)  
 GN 320 German Culture & Civ (3)  
 GN 330 German Grammar (3)  
 GN 340 German Phonetics/Pronunc (3)  
 GN 375 History of German Film (3)  
 GN 402 Independent Study in German (3)  
 GN 424 20th Century German Lit (3)  
 GN 440 Special Topics: German (3)  
 GN 495 Foreign Lang Intern Germany (3)  
 GN 816 Adv Lang & Culture Germany (3)

**Spanish Track:****Required Course:**

- SN 001 Spanish Exit Exam (0)

**Choose 24 hours:\*\*\*\***

- FL 311 Survey/French/German/Spanish Lit (3)  
 FL 400 Practicum in Foreign Languages (3)  
 FL 849 Int Crs/Foreign Language & Culture (3)  
 SN 300 Spanish American Culture (3)  
 SN 301 Interm Spanish Composition (3)  
 SN 302 Exp Spanish Lang/Culture (1)  
 SN 305 Conversational Spanish (3)  
 SN 306 Civilization of Spain (3)  
 SN 330 Spanish Grammar (3)  
 SN 400 Special Topics: Spanish (3)  
 SN 402 Independent Study in Spanish (3)  
 SN 403 Survey of Spanish Lit I (3)  
 SN 404 Survey of Spanish Lit II (3)  
 SN 430 Spanish American Lit I (3)  
 SN 435 Spanish American Lit II (3)  
 SN 495 For Lang Internship in Spanish (3)

**GLOBAL STUDIES OPTION (21 Hours):**

- GG 180 Cultural Geography (3)  
 GH 130 Latin American Civ (3)

**OR**

- EH 103 Modern European Civ (3)  
 xx 300-599 Study Abroad/Internship (3)  
 xx xxx Approved Upper Division Elective (6)\*\*\*

**Chinese Track**

- xx 300-599 Study Abroad in China (6)

**Francophone Track:**

- FR 306 Contemporary France (3)  
 UI 362 Contemporary French Culture (3)

**Germanic Track:**

- EH 516 History of Modern Germany (3)  
 GN 320 German Culture & Civilization (3)

**Hispanic Track:**

- SN 300 Spanish American Culture (3)

**OR**

- SN 306 Civilization of Spain (3)  
 WH 520 Latin Am Colonial History (3)

**OR**

- WH 524 History of Mexico Since 1810 (3)

**Japanese Track:**

- xx 300-599 Study Abroad in Japan (6)

\*\*\*See Department for list of approved electives

\*\*\*\*1-16 hours of French, German or Spanish may be earned through Study Abroad. Contact the Department of Global Cultures and Languages for details.

## HISTORY

### 39 Hour Major - Minor Required

#### Required Courses:

- GH 007 BA Portfolio Review (0)  
 GH 315 Historiography (3)  
 GH 415 Senior Seminar in History (3)

#### Choose 15 Senior Level Hours From:

- EH xxx (6)  
 US xxx (6)  
 WH xxx (3)

#### Choose 6 Senior Level Hours From:

- EH, GH, US OR WH prefix courses (6)

#### Choose an additional 12 Hours of EH, GH, US, WH, HP 100, HP 200 or departmentally approved UI courses

(Only 3 Hours UI courses can be counted on major)

#### Additional Requirement:

xx xxx 6 Hours in ONE Foreign Language

#### Choose one of the following options:

xx xxx 6 Hours in Foreign Language

#### OR

PY 271 Research Design and Analysis I (3)

#### AND

PY 370 Research Design and Analysis II (3)

#### OR

MA 134 College Algebra (3)

#### AND

MA 223 Elementary Prob & Statistics (3)

#### OR

CS 120 Intro to Computer Science (3)

#### OR

SO 242 Statistics for Social Scientists (3)

## MUSIC

### 50-52 Hour Major - Minor Required

*(A grade of 'C' or better is required for all courses within the major.)*

#### Required courses for Instrumental & Vocal Options:

- MM 101 Theories of Music in Culture (3)  
 MM 102 Basic Harmony & Form (3)  
 MM 105 Aural Skills I (1)  
 MM 106 Aural Skills II (1)  
 MM 203 Adv Harmony, Form & Counterpoint (3)  
 MM 204 Twentieth Century Techniques (3)  
 MM 207 Aural Skills III (1)  
 MM 208 Aural Skills IV (1)  
 MH 251 History & Lit of Music to 1827 (3)  
 MH 252 Evolution of Musical Style Since 1827 (3)  
 MP 001 Recital (0)  
 MP 1xx Applied Music (2)  
 MP 2xx Applied Music (2)

- MP 3xx Applied Music (2)  
 MU 001 Piano Proficiency (0)  
 MU 002 Sophomore Review (0)  
 MU 110 Recitals & Concerts(six semesters) (0)  
 MU 151 Functional Piano I (1)  
 MU 152 Functional Piano II (1)  
 MU 253 Functional Piano III (1)  
 MU 254 Functional Piano IV (1)  
 MU 3xx Instrumental or Vocal Ensemble (6)  
 UI 310 American Music Experience (3)  
 UI 402 Music in World Cultures (3)

#### Choose 3 Hours From:

- UI 315 Electronics & Computers in Music (3)  
 UI 392 The Age of Romanticism (3)  
 UI 393 The Age of Modernism (3)  
 UI 394 Music & Culture: 1600-1750 (3)  
 UI 396 The Age of Beethoven (3)  
 UI 397 Music in Medieval & Renaissance Culture (3)

#### Additional Required Courses for Vocal Option:

- MU 123 Singer's Diction I (1)  
 MU 124 Singer's Diction II (1)

#### Additional Requirement for all BA Music majors:

xx xxx 6 Hours in ONE Foreign Language

## PHILOSOPHY

### 31 Hour Major - Minor Required

#### Required Courses:

- PL 120 Symbolic Logic I (3)  
**OR**  
 PL 330 Symbolic Logic II (3)  
 PL 203 Aesthetics and The Arts (3)  
**OR**  
 PL 204 Ethical Theory (3)  
**OR**  
 PL 245 Social & Political Philosophy (3)  
 PL 300 Ancient Philosophy (3)  
 PL 310 Modern Philosophy (3)  
 PL 390 Contemporary Philosophy (3)  
 PL 400 Seminar: Topics in Philosophy (3)  
 PL 450 Seminar: Meths & Movmts in Philosophy (3)  
 PL 481 Practicum (1)

#### Choose 9 Hours of PL or Departmentally Approved UI Courses

*(At least one course must be 300-400 level)*

## POLITICAL SCIENCE

### 30 Hour Major - Minor Required

#### Required Courses:

- PS 001 Senior Assessment (0)  
 PS 103 United States Political Systems (3)  
**OR**

- PS 104 Comparative Political Systems (3)  
 PS 240 Intro to Political Science (3)  
 PS 470 Politics of the Developed World (3)

**Choose 21 Hours From the Following Categories:**

*(3 Hours from Each Category plus 6 Additional Hours)*

**American Government & Politics**

- PS 310 Govt & Politics in American States (3)  
 PS 335 American Foreign Policy (3)  
 PS 360 Political Parties & Voting Behavior (3)  
 PS 365 Legislative Process (3)  
 PS 387-389 Independent Study in Poli Sci (1-3)  
 PS 390 American Judicial System (3)  
 PS 418 Public Policy Analysis (3)  
 PS 490 Constitutional Law (3)  
 UI 320 Modern Presidency (3)

**Comparative Governments & Politics**

- IU 310 Gov & Pol of East Asia (3)  
 PS 355 Less Developed Nations (3)  
 PS 387-389 Independent Study in Poli Sci (1-3)  
 PS 460 Govt & Politics West Europe (3)  
 UI 350 Middle East Politics (3)

**International Politics**

- PS 280 Intro to Global Issues (3)  
 PS 335 American Foreign Policy (3)  
 PS 380 International Organizations (3)  
 PS 387-389 Independent Study in Poli Sci (1-3)  
 PS 580 International Politics (3)  
 PS 595 International Law (3)  
 UI 322 International Political Economy (3)

**Public Administration**

- PI 381-383 Internship in Political Science (1-3)  
 PS 230 American Public Policy (3)  
 PS 384-386 Internship in Political Science (3)  
 PS 387-389 Independent Study in Poli Sci (1-3)  
 PS 402 Fundamentals of Public Admin (3)  
 PS 403 Public Personnel Admin (3)  
 PS 405 Org Theory/Behavior (3)  
 PS 415 Government Budgeting Process (3)  
 PS 418 Public Policy Analysis (3)  
 PS 425 Administrative Law & Procedure (3)

**Political Theory**

- PS 387-389 Independent Study in Poli Sci (1-3)  
 UI 342 Modern Political Thought (3)  
 UI 357 Early American Political Thought (3)  
 UI 358 Foundations of Political Thought (3)  
 UI 361 Contemporary Political Theory (3)

**Additional Requirement:**

- xx xxx 12 Hours in ONE Foreign Language

**SOCIAL SCIENCE**

**39 Hour Major – No Minor Required  
 Required Courses:**

- OS 200 Survey of Social Science (3)  
 OS 300 Problems in Social Science (3)  
 OS 400 Social Science Research Methods (3)

**Choose one of the following courses:**

- MA 155 Statistical Reasoning (3)  
 MA 223 Elementary Probability and Statistics (3)  
 PY 271 Research Analysis I (3)  
 QM 257 Business Statistics (3)  
 SO 242/SW242 Statistics for Social Scientists (3)

**Choose 21 Hours in a Concentration in one of the following areas.**

**At least 15 Hours must be at the 300-500 level:**

- Anthropology  
 Criminal Justice  
 Economics  
 History (any prefix)  
 Political Science  
 Psychology  
 Sociology

**Choose 6 Hours from any courses (300-599) in the areas below except for the area of concentration:**

- Anthropology  
 Criminal Justice  
 Economics  
 History (any prefix)  
 Political Science  
 Psychology  
 Sociology

**Language and Math/Statistics Options:**

*Students may substitute up to 6 hours in foreign language and/or additional math/statistics courses from the above hours, in either category, with the approval of the Coordinator of the Social Science B.A.*

**University Studies Interdisciplinary Program  
 Options:**

UI courses in Social Science may be substituted in any category with the approval of the Coordinator of the Social Science B.A. The program will maintain a list of acceptable substitutions.

**THEATRE**

**48 Hour Major - Minor Required**

**Required Courses:**

- TH 105 Rehearsal & Production I (2)  
 TH 155 Makeup (3)  
 TH 218 Acting I (3)  
 TH 231 Stagecraft I (3)



- TH 251 Costume Construction (3)
- TH 305 Rehearsal & Production II (6)
- TH 381 Script Analysis (3)
- TH 385 Directing I (3)
- TH 490 Theatre History I (3)
- TH 495 Theatre History II (3)

**Choose 3 hours:**

- TH 265 Drawing for Theatre I (3)
- TH 316 Acting II (3)

**Select 13 Hours from:\***

- TH 122 Class Voice for Musical Theatre I (3)
- TH 219 Auditioning (1)
- TH 222 Class Voice/Mus Theatre II (3)
- TH 266 Drawing for the Theatre II (3)
- TH 317 Voice for Actors (3)
- TH 318 Musical Theatre Performance I (3)
- TH 319 Acting for Film and Television (3)
- TH 321 Stage Combat I (3)
- TH 322 Class Voice/Mus Theatre III (2)
- TH 331 Stagecraft II (3)
- TH 350 Stage Lighting I (3)
- TH 351 Costume Design I (3)
- TH 361 Scene Painting (3)
- TH 371 Scenic Design I (3)
- TH 375 Performing Arts Mgmt (3)
- TH 386 Sound Design (3)
- TH 395 Period & Style (3)
- TH 416 Acting III (3)
- TH 418 Musical Theatre Performance II (3)
- TH 431 Stage Combat II (3)
- TH 450 Stage Lighting II (3)
- TH 451 Costume Design II (3)
- TH 471 Scenic Design II (3)
- TH 485 Directing II (3)

*\*9 hours must be at the 300-400 level.*

**BACHELOR OF FINE ARTS DEGREE**

The Bachelor of Fine Arts degree is offered in the areas of Art (Department of Art), Dance (Department of Theatre and Dance) and Theatre (Department of Theatre and Dance). Music Performance is offered under the Bachelor of Music degree (Department of Music) p. 121.

The areas from which majors must be chosen are:

- Art
- Dance
- Theatre

**ART**

**A 3.0 grade point average in the major must be maintained.**

**Grade of 'C' or better required in all BFA-Art major courses.**

**80 Hour Major - No Minor Required**

**Required Courses:**

- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 001 Foundation Core Review (0)
- AR 100 Drawing I (3)
- AR 104 Design Foundations (3)
- AR 106 3D Foundations (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II (3)
- AR 302 Printmaking (3)

**OR**

- AR 303 Screenprinting (3)

**OR**

- AR 501 Intaglio Printmaking (3)

**OR**

- AR 502 Lithography Printmaking (3)
- AR 314 Drawing III: Adv Problems (3)

**OR**

- AR 319 Intro to Graphic Design (3)
- AR 323 Art & New Technology (3)
- AR 325 Painting (3)
- AR 330 Fibers I (3)
- AR 332 Sculpture I (3)
- AR 342 Ceramics I (3)
- AR 490 BFA Studio Capstone (3)

**Choose 6 additional hours of Art History courses (300-500 level)**

**Elective Art Courses (29)**

Studio majors select 12-21 departmentally approved credit hours in one of the following specialized areas: Painting; Printmaking; Sculpture; Ceramics; Graphic Design/Illustration; or Digital Arts.

All concentration majors choose an additional 8 to 17 departmentally approved elective credit hours.

**DANCE**

**82 Hour Major – No Minor Required**

*(A grade of "C" is required in each course within the BFA-Dance major. Students must maintain a 3.0 gpa in the major.)*

All students wishing to advance in level will be required to successfully complete an annual jury as arranged by department faculty.

**Required Courses:**

- DA 105 Rehearsal & Production I (2)
- DA 280 Movement Analysis (3)
- DA 282 Movement Improv (3)
- DA 290 Dance in World Cultures (3)
- DA 305 Rehearsal & Production II (6)
- DA 380 Choreography I (3)
- DA 390 Topics in Dance (6)
- DA 395 Kinesiology/Phys of Dance (3)
- DA 430 Prin of Teaching Dance (3)
- DA 485 Choreography II (6)
- DA 490 Dance History (3)
- DA 498 BFA Project (2)
- DA 499 Internship (4)

**Choose 8 hours:\***

- DA 211 Ballet I (2)
- DA 311 Ballet II (2)
- DA 411 Ballet III (2)

**Choose 8 hours:\***

- DA 221 Modern Dance I (2)
- DA 321 Modern Dance II (2)
- DA 421 Modern Dance III (2)

**Choose 8 hours:\***

- DA 226 Jazz Dance I (2)
- DA 326 Jazz Dance II (2)
- DA 426 Jazz Dance III (2)

**\*6 hours must 300-400 level**

**Choose 8 hours:**

- DA 411 Ballet III (2)
- DA 421 Modern Dance III (2)
- DA 426 Jazz Dance III (2)

**Choose 3 hours:**

- DA 236 Tap I (2)
- DA 336 Tap II (2)
- TH 155 Makeup (3)
- TH 218 Acting I (3)
- TH 251 Costume Construction (3)
- TH 350 Stage Lighting I (3)

**Additional Requirements:**

- UI 384 History of the Musical (3)

**OR**

- UI 433 Aesthetics of Movement (3)

**THEATRE**

**83-84 Hour Major – No Minor Required**

*(A grade of "C" is required in each course within the BFA-Theatre major. Students must maintain a 3.0 gpa in the major.)*

- TH 105 Rehearsal & Production I (2)
- TH 107 Theory Skills & Analysis for Mus Theatre (3)\*

**OR**

- TH 231 Stagecraft I (3)
- TH 155 Makeup (3)
- TH 218 Acting I (3)\* \*\*

**OR**

- TH 101 Acting for Non-Majors (3)\*\*\*
- TH 251 Costume Construction (3)
- TH 305 Rehearsal & Production II (6)
- TH 307 Musical Theatre Score Study (3)\*

**OR**

- TH 375 Performing Arts Mgmt (3)
- TH 381 Script Analysis (3)
- TH 385 Directing I (3)
- TH 488 Senior Portfolio (3)
- TH 490 Theatre History I (3)
- TH 495 Theatre History II (3)
- TH 498 BFA Project (2)
- TH 499 Internship (4)

*\*Required for Musical Theatre Option*

*\*\*Required for Acting Option*

*\*\*\*Required for Design/Technology Option*

**Choose One Option:**

**ACTING (39 Hours)**

- TH 218 Acting I (3)
- TH 219 Auditioning (1)
- TH 316 Acting II (6)
- TH 317 Voice for the Stage (3)
- TH 319 Acting for Film & Television (3)
- TH 321 Stage Combat I (3)
- TH 416 Acting III (6)
- TH 431 Stage Combat II (3)
- TH 485 Directing II (3)

**Choose 8 hours:**

- DA 211 Ballet I (2)
- DA 221 Modern Dance I (2)
- DA 226 Jazz Dance I (2)
- DA 236 Tap Dance I (2)
- DA 282 Movement Improv (3)
- DA 311 Ballet II (2)
- DA 321 Modern Dance II (2)
- DA 326 Jazz Dance II (2)
- DA 336 Tap Dance II (2)
- TH 122 Class Voice for Musical Theatre I (3)
- TH 350 Stage Lighting (3)
- TH 351 Costume Design I (3)
- TH 371 Scenic Design I (3)
- TH 386 Sound Design (3)

**DESIGN/TECHNOLOGY OPTION (39 Hours)**

- TH 265 Drawing for the Theatre I (3)
- TH 266 Drawing for the Theatre II (3)

- TH 331 Stagecraft II (3)
- TH 350 Stage Lighting I (3)
- TH 351 Costume Design I (3)
- TH 361 Scene Painting (3)
- TH 371 Scenic Design I (3)
- TH 386 Sound Design (3)
- TH 395 Period & Style (3)
- TH 450 Stage Lighting II (3)
- TH 451 Costume Design II (3)
- TH 471 Scenic Design II (3)

**Choose 3 hours:**

- AR 100 Drawing I (2)
- AR 104 Design Foundations (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II: Human Figure (3)

**MUSICAL THEATRE OPTION (40 Hours)**

- DA 211 Ballet I (2)
- MM 105 Aural Skills I (1)
- MU 151 Functional Piano I (1)
- TH 122 Class Voice for Musical Theatre (3)
- TH 218 Acting I (3)
- TH 219 Auditioning (1)
- TH 222 Class Voice for Musical Theatre II (3)
- TH 316 Acting II (6)
- TH 318 Musical Theatre Performance I (3)
- TH 322 Class Voice for Musical Theatre III (6)
- TH 418 Musical Theatre Performance II (3)

**Choose 8 Hours from (4 hours must be 300-400 level):**

- DA 211 Ballet I (2) (required)
- DA 221 Modern Dance (2)
- DA 226 Jazz Dance I (2)
- DA 236 Tap Dance I (2)
- DA 282 Movement Improv (3)
- DA 311 Ballet II (2)
- DA 321 Modern Dance II (2)
- DA 326 Jazz Dance II (2)
- DA 336 Tap Dance II (2)
- DA 411 Ballet III (2)
- DA 421 Modern Dance III (2)
- DA 426 Jazz Dance III (2)
- DA 436 Tap Dance III (2)

**Additional Requirements:**

- MM 101 Theories/Music in Culture (3)
- UI 384 History of the Musical (3)

**OR**

- UI 433 Aesthetics of Movement (3)

**BACHELOR OF GENERAL STUDIES DEGREE**

Allows individual structuring of a degree program without requiring major or minor fields; University Studies requirements must be completed. In addition to completing this program through traditional face-to-face courses, the Bachelor of General Studies degree may also be completed through the Southeast regional campuses or Southeast Online.

**Minimum Degree Requirements 120 Hours**  
**University Studies Requirements 51 Hours**  
**300-500 Level Courses Required 39 Hours**

**BACHELOR OF SCIENCE DEGREE**

Primarily for students entering various scientific fields. The areas from which majors must be chosen are:

Agribusiness

- Options: Agriculture Industry
- Animal Science
- Horticulture
- Plant & Soil Science

Athletic Training

Biology

- Options: Biomedical Sciences
- Marine Biology
- Microbiology, Cellular & Molecular Biology & Biotechnology
- Organismal, Ecological, & Evolutionary Biology
- Pre-Physician Assistant
- Wildlife and Conservation Biology

Chemistry

- Options: Chemistry
- Biochemistry
- DNA Analysis
- Forensic Chemistry

Commercial Photography

Communication Disorders

Computer Information Systems

Computer Science

Corporate Communication

Criminal Justice

- Options: Corrections

Criminology

Law Enforcement

Cybersecurity

Economics

Engineering Physics  
 Options: Computer Applications  
 Electrical Applications  
 Mechanical Applications

Engineering Technology  
 Options: Electrical & Control  
 Mechanical & Manufacturing  
 Systems

Environmental Science

Health Management  
 Options: Exercise Science  
 Health Promotion

Historic Preservation

Hospitality Management

Human Environmental Studies  
 Options: Child Development  
 Dietetics  
 Family Studies  
 Fashion Merchandising  
 Interior Design

Interdisciplinary Studies

Mass Communication  
 Options: Advertising  
 Multimedia Journalism  
 Public Relations  
 Television & Film

Mathematics:  
 Options: Pure Mathematics  
 Applied Mathematics & Statistics

Medical Technology

Physics

Political Science

Psychology

Recreation

Social Work

Sport Management

Technology Management  
 Options: Computer & Multimedia Graphics  
 Construction Management and  
 Design  
 Facilities Management &  
 Sustainability  
 Industrial Management  
 Sustainable Energy Systems  
 Management  
 Technology Management  
 Telecommunication & Computer  
 Networking

## **AGRIBUSINESS**

**73-76 Hour Major - No Minor Required  
 Required Courses:**

AC 221 Principles of Accounting I (3)  
 AD 101 Intro to Microcomp Appl (3)  
 AG 245 Agricultural Economics (3)  
 AG 250 Agribusiness Management (3)  
 AG 334 Agribusiness Finance (3)  
 AG 355 Agriculture Seminar (1)  
 AG 433 Agriculture & Food Policy (3)  
 AG 447 Mktg of Agri Products (3)  
 AG 465 Agriculture Internship (3-6)

### **OR**

AG 469 Undergrad Research (3)  
 AG 470 Agribusiness Sales (3)  
 AO 120 Plant Science (3)  
 AO 125 Plant Science Lab (1)  
 AO 321 Cotton & Rice Culture (3)  
 AY 101 Animal Science (3)  
 HO 110 Intro to Horticulture (3)  
 UI 436 Agricultural Ethics (3)

**Additional Requirements (8 hours):**

CH 181 Basic Princ of Chemistry (5)

### **OR**

CH 185 General Chemistry (5)  
 MA 134 College Algebra (3)

**Choose One of the Following Options (30 Hours):**

### **AGRICULTURE INDUSTRY**

**30 hours by advisement based on student plans/  
 background, selected from AG, AO, AY, HO prefix  
 courses or may include AAS Agriculture degree  
 courses transferred to Southeast.**

### **ANIMAL SCIENCE**

AY 105 Animal Science Experience (2)  
 AY 304 Princ of Animal Nutrition (3)  
 AY 350 Animal Reproduction (3)  
 AY 360 Animal Immun & Diseases (3)

**Choose 21 hours from:**

AG 371 Topics in Agriculture (2)  
 AO 301 Forages (3)  
 AY 200 Companion Animals (3)  
 AY 205 Horse Science (3)  
 AY 220 Animal Handling (1)  
 AY 300 Domestic Animal A&P (3)  
 AY 305 Advanced Horse Science (3)  
 AY 375 Animal Breed Improvement (3)  
 AY 405 Beef Production (3)  
 AY 440 Adv Beef Production (3)

### **HORTICULTURE**

AO 215 Soils (3)  
 AO 260 Integrated Pest Mgmt (3)

- AO 323 Plant Pathology (3)
- AO 401 Agri & Natl Resource Mgmt (3)
- AO 480 Crop Production (3)
- HO 130 Plant ID & Use I (3)
- HO 230 Plant ID & Use II (3)

**Choose 15 Hours From:**

- AG 551 Water Management (3)
- HO 310 Alternative Agriculture (3)
- HO 320 Nursery Admin & Culture (3)
- HO 321 Adv Plant Propagation (3)
- HO 330 Landscape Design & Maint (3)
- HO 342 Prod of Horticulture Crops (3)
- HO 350 Greenhouse Mgt (4)
- HO 355 Interior Plantscaping (3)
- HO 430 Turfgrass Management (3)
- HO 431 Landscape Inst/Maint (3)
- HO 445 Compost/Utilzn in Hort Systems (3)
- HO 450 Vineyard Operations (3)
- HO 464 Advanced Horticulture (3)

**PLANT AND SOIL SCIENCE**

- AG 440 Precision Agriculture (3)
- AO 215 Soils (3)
- AO 260 Integrated Pest Mgmt (3)
- AO 323 Plant Pathology (3)
- AO 327 Sustainable Agriculture (3)
- AO 401 Ag & Natural Resource Mgmt (3)
- AO 420 Crop Physiology (3)
- AO 427 Soil Fertility & Plant Nutrtn (3)
- AO 444 Prin of Plant Breeding (3)
- AO 480 Crop Production (3)
- AY 105 Animal Science Experience (2)

**ATHLETIC TRAINING**

**71 Hour Major - No Minor Required**

*(See Admission to Athletic Training criteria under Admissions, page 10.)*

**Required Courses:**

- FN 235 Nutrition for Health (3)
- FN 401 Sports Nutrition (3)
- HL 111 Intro to Health Management (3)
- HL 120 Health Perspectives (3)
- HL 231 Fitness Conditioning (3)
- HL 251 Intro to Athletic Injuries (3)
- HL 263 Sports Injury Management (3)
- HL 265 Therapeutic Modalities (3)
- HL 280 Basic Skills in Athletic Training (1)
- HL 281 Practicum in Athletic Training I (1)
- HL 282 Practicum in Athletic Training II (1)
- HL 303 Research Methods (3)
- HL 312 Sport and Exercise Pharmacology (3)
- HL 321 Advanced Injury Assessment I (3)

- HL 322 Advanced Injury Assessment II (3)
- HL 323 Advanced Injury Assessment III (3)
- HL 331/031 Exercise Physiology (3)
- HL 345 Resistance Training Principles and Practices (3)
- HL 382 Medical Aspects of Sport (3)
- HL 383 Practicum in Athletic Training III (1)
- HL 384 Practicum in Athletic Training IV (1)
- HL 444 Rehab of Sports Injuries (3)
- HL 472 Admin of Athletic Training (3)
- HL 480 Seminar in Athletic Training (2)
- HL 481 Practicum in Athletic Training (1)
- HL 499 Athletic Training Internship (6)
- HL 511 Applied Anatomy (3)

**Additional Requirements: 20 Hours**

- BS 113/013 Anatomy & Physiology I (4)
- BS 114/014 Anatomy & Physiology II (4)
- CH 180 Chemistry in Our World (3)\*
- EN 140 Rhet & Critical Thinking (3)
- MA 134 College Algebra (3)\*
- PY 101 Psych Perspect/Human Behav (3)

**\*Higher level course is acceptable**

**BIOLOGY**

**47 hour Major - No minor required**

**Required Courses:**

- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics and Cell Biology (4)
- BI 471-473 Internship in Biology (2)

**OR**

- BI 551/553 Biology Field Studies (2)

**OR**

- BI 589-591 Biological Research (2)
- BI 489 Analysis of Biological Issues (2)
- CH 185/085/005 General Chemistry (5)
- MA 134 College Algebra (3)

**Choose One of the Following Options**

**BIOMEDICAL SCIENCES**

- BI 381 Molecular Genetics (3)
- ZO 331 Animal Physiology (3)

**Any BI, BO, ZO, BT courses, at least 10 credits 300 level and above (17)**

**Additional Requirements: 23-25**

Any additional Math course not in University Studies (3-5)

- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chem Lab I (1)

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PH 120 Introductory Physics I (5)  
PH 121 Introductory Physics II (5)

### **MARINE BIOLOGY**

BI 332 General Ecology (3)  
BI 348 Marine Biology (3)  
BI 434 Marine Evolutionary Ecology (3)  
ZO 200 Animal Biology (3)  
ZO 430 Invertebrate Zoology (4)

### **Choose one of the following:**

BI 200 Microbiology (3)  
BO 200 Plant Biology (4)

### **Choose 5-6 hours of electives\*:**

BI/BO/BT/ZOxxx 300 level or above  
BI 540/541 Marine Microbiology (5)  
BI 573-578 Special Topics (1-6)  
BI 593-598 Special Problems (1-6)  
BO 500/505 Marine Phycology (4)  
BO 561/562 Salt Marsh Plant Ecology (4)  
BO 563/564 Coastal Vegetation (3)  
ZO 510/511 Comp Histology/Marine Org (6)  
ZO 540/541 Parasites/Marine Mammals (6)  
ZO 552/553 Marine Fisheries Mgmt (4)  
ZO 554/555 Marine Aquaculture (6)  
ZO 559/560 Marine Mammals (5)  
ZO 563/566 Fauna/Faunistic Ecol/Tidal Marshes (5)  
ZO 564/574 Marine Ichthyology (6)  
ZO 565/567 Early Life History of Marine Fishes (4)

### **Non-Biology Requirements:**

PH 120 Introductory Physics I (5)  
CH 186 Found of Inorganic Chem (3)  
CH 187 Inorganic Chem & Qual Analysis Lab (2)  
CH 341 Found of Organic Chem (4)  
CH 342 Organic Chem Lab I (1)  
GO 320 Oceanography (3)

### **One additional math course not in University Studies (3)**

*\*A minimum of 3 hours must be taken from the Gulf Coast Research Laboratory or comparable institution or the equivalents listed. Microbiology, Cellular and Molecular Biology, and Biotechnology*

BI 200 General Microbiology (3)  
BI 245 Lab Methods in Biotechnology (3)  
BI 381 Molecular Genetics (3)

### **Choose 6 hours from this list:**

BI 404 Cell Biology (3)  
BI 414 Prob. in Cell & Molecular Biology (3)  
BI 441 Virology (3)  
BI 442 Immunology (3)  
BI 443 Epidemiology (3)  
BI 445 Microbial Physiology (3)  
BI/BT 450 Inv. Molecular Biology & Biotechnology (3)

BI 460 Intro. to Toxicology (3)  
BI 543 Pathogenic Microbiology (2)  
BI 544 Pathogenic Microbiology Lab (1)  
BO 445 Plant Physiology (3)  
ZO 331 Animal Physiology (3)  
ZO 414 Developmental Biology (3)  
ZO 441 Parasitology (3)

### **Any BI, BO, ZO, BT courses, 300 level and above (8)**

### **Additional Requirements: 16-18 Hours**

### **Any additional Math course not in University Studies (3-5)**

CH 186 Found of Inorganic Chem (3)  
CH 187 Inorganic Chem & Qual Analysis Lab (2)  
CH 341 Found of Organic Chem (4)  
CH 342 Organic Chem Lab I (1)  
UI 331 Found of Biochemistry (3)

### **Organismal, Ecological, and Evolutionary Biology**

BI 300 Intro to Evolutionary Biology (3)  
BI 332 General Ecology (3)  
BO 200 Plant Biology (4)  
ZO 200 Animal Biology (3)

### **Any BI, BO, ZO, BT courses, 300 level and above (10)**

### **Additional Requirements: 6-8 Hours**

### **UI 373 Earth/Life Through Time (3)**

MA 139 Applied Calculus (3)

### **OR**

MA 140 Calculus (5)

### **OR**

MA 223 Probability and Statistics (3)

### **PRE-PHYSICIAN ASSISTANT**

BI 381 Molecular Genetics (3)  
BS 113/013 Anat & Phys I (4)  
BS 114/014 Anat & Phys II (4)  
BI/BO/BT/ZO prefix or BS 240 with at least 8 hours at the 300 level (12)

### **Additional Requirements: 30 hours**

CH 186 Found of Inorganic Chem (3)  
CH 187 Inorg & Qual Analys Lab (2)  
CH 341 Found of Org Chem (3)  
HL 113 Medical Terminology (3)  
MA 155 Statistical Reasoning (3)

### **OR**

MA 223 Elem Prob & Stats (3)

### **OR**

PY 271 Res Design & Analys (3)  
PH 120/02 Intro Physics I (5)  
PH 121/021 Intro Physic II (5)  
PY 101 Psych Persp on Hum Behv (3)

### **OR**

PY 102 Intro to Psychology (3)  
PY 220 Psych Dev Across/Lifespan (3)

**Wildlife and Conservation**

- BI 332 General Ecology (3)
- BO 200 Plant Biology (4)
- ZO 200 Animal Biology (3)

**Choose two of the following:**

- BI 420 Management of Wildlife Populations (3)
- BI 430 Management of Wildlife Habitat (3)
- BI 435 Conservation Biology (3)
- BI 440 Wetland Ecology and Management (3)

**Biology Electives – choose 7 hours:**

- BI 420 Management of Wildlife Populations (3)
- BI 430 Management of Wildlife Habitat (3)
- BI 432 Advanced Ecology (3)
- BI 435 Conservation Biology (3)
- BI 440 Ecology and Management of Wetlands (3)
- BI 452 Freshwater Ecology (3)
- BI 469 Wildlife Toxicology (3)
- BI 471-473 Internship (1-3)
- BI 493 Readings in Biology (2)
- BI 551/553 Biology Field Studies (1/3)
- BI 589-591 Biological Research (1-3)
- BO 361 Systematic Botany (3)
- BO 420 Ethnobotany (3)
- BO 445 Plant Physiology (3)
- BO 461 Native Aquatic Plants (3)
- BO 469 Field Botany (3)
- ZO 420 Animal Behavior (3)
- ZO 441 Parasitology (3)
- ZO 459 Mammalogy (3)
- ZO 460 Herpetology (3)
- ZO 465 Entomology (3)
- ZO 466 Ornithology (3)
- ZO 469 Vertebrate Adaptations (3)
- ZO 478 Ichthyology (3)

**Additional Requirements: 6-8 Hours**

- GO 110 Physical Geology (3)
- MA 139 Applied Calculus (3)

**OR**

- MA 140 Calculus (5)

**OR**

- MA 223 Elementary Probability and Statistics (3)

**CHEMISTRY**

**34 Hour Major-No Minor Required  
Required Core Courses**

- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)

- CH 311 Found of Physical Chem (4)
- CH 313 Physical Chemistry Laboratory (3)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- CH 498 Professional Presentation in Chemistry (1)
- CH 531/UI 331 Found of Biochemistry (3)
- UI 443 Professional Experience in Chemistry (3)

**Additional Requirements: 19 hours**

- MA 140 Analytical Geometry and Calculus I (5)
- MA 145 Analytical Geometry and Calculus II (4)
- PH 120 Introductory Physics I (5)

**AND**

- PH 121 Introductory Physics II (5)

**OR**

- PH 230 General Physics I (5)

**AND**

- PH 231 General Physics II (5)

**Choose One Of The Following Options:**

**CHEMISTRY**

- CH 312 Adv Physical Chem (3)
- CH 343 Adv Organic Chem (3)
- CH 344 Organic Chem Lab II (2)

**Additional Requirements:**

**Choose one seven to eight hour track:**

**Track A:**

**Required Course:**

- CH 39x Undergrad Research (4)

**Choose Four Hours From:**

- CH 532/533 Adv Biochemistry/Biochem Lab (4)
- CH 563 Adv Inorganic Chem (4)
- CH 575 Chem Instrumentation (4)

**Track B:**

**Two of the following to include a minimum of 3 hours of lab work:**

- CH 420 Forensic Chem (4)
- CH 447 Adv 1&2 Dim NMR Tech (3)
- CH 450 Environ Chemistry (3)
- CH 532/533 Adv Biochemistry/Biochem Lab (4)
- CH 545 Organic Preps & Characterization (3)
- CH 563 Adv Inorganic Chemistry (4)
- CH 575 Chem Instrumentation (4)

**BIOCHEMISTRY**

- CH 312 Adv Physical Chem (3)
- CH 343 Adv Organic Chem (3)
- CH 344 Organic Chem Lab II (2)
- CH 532 Advanced Biochemistry (2)
- CH 533 Biochemistry Laboratory (2)
- BI 154 Genetics & Cellular Biology (4)
- BI 200 General Microbiology (3)
- BI 381 Genetics (3)
- BI 404 Cell Biology (3)

**DNA ANALYSIS OPTION – no minor required**

BI 154	Genetics & Cellular Biology (4)
BI 200	General Microbiology (3)
BI 245	Lab Methods in Biotechnology (3)
BI 381	Genetics (3)
BI 450	Molecular Biology (3)
CH 312	Adv Physical Chem (3)
CH 420	Forensic Chemistry (4)
CH 533	Biochemistry Lab (2)
MA 423	Stat Analysis for Forensic Sci (3)

**FORENSIC CHEMISTRY**

CH 343	Adv Organic Chem (3)
CH 533	Biochemistry Lab (2)
CH 420	Forensic Chemistry (4)
CH 575	Chemical Instrumentation (4)
CJ 350	Criminalistics (3)
MA 423	Statistical Analysis for Forensic Science (3)
EV 460	Introduction to Toxicology (3)
FS 550	Crime Lab I: Microscopy (2)
FS 552	Crime Lab II: Blood & Fluids (2)

**COMMERCIAL PHOTOGRAPHY****75 Hour Major – No Minor Required****Required Courses:**

AR 104	Design Foundations (3)
AR 201	Color Composition (3)
AR 324	Digital Art Photo (3)
BA 361	Prin of Entrepreneurship (3)
BA 561	Entrepreneurship Plan & Strat (3)

**OR**

MK 343	Advertising & Promotion (3)
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**OR**

MK 555	Internet Marketing (3)
CH 180	Chemistry in Our World (3)
GM 180	Intro to Technical Graphics (3)
GM 200	Vector/Bitmap Graph for Indus (3)
GM 282	Vector Graphics (3)
GM 320	Graphic User Interface Design (3)

**OR**

GM 385	HD Video for Multimedia (3)
GM 490	Adv Graphics Projects (3)
MA 133	Plane Trigonometry (3)

**OR**

MA 223	Elementary Stats (3)
MA 134	College Algebra (3)
MC 101	Mass Comm & Society (3)
MC 201	Writing for Mass Media (3)
MC 310	Advertising Comm Strat (3)
MC 312	Advertising Creative Conc (3)
MK 301	Principles of Marketing (3)
PG 284	Photo Fundamentals (3)

PG 285	Comm Photo Lighting (3)
PG 286	Comm Studio Photo (3)
PG 300	Adv Lighting Tech (3)
PG 325	Pract of Comm Photo (3)
PG 384	Comm Photo I (3)
PG 484	Comm Photo II (3)

**COMMUNICATION DISORDERS****35 Hour Major - Minor Required**

*(See Admission to Communication Disorders Program criteria under Admissions, page 17)*

**Required Courses:**

CD 211	Anat & Physiology/Speech Mechanism (4)
CD 225	Phonetics (3)
CD 230	Intro to Communication Disorders (4)
CD 340	Normal Speech/Language Development (3)
CD 371	Anat & Physiology/Hearing Mechanism (3)
CD 402	Clinical Practicum/Comm Disorders (3)
CD 406	Service Delivery in Comm Disorders (4)
CD 411	Nature Assmt/Intervention Speech/ Language Disorders (5)
CD 426	Hearing Disorders: Audiological Assmt (3)

**Choose one of the following:**

CD 510	Multicultural Issues in Comm Disorders (3)
CD 525	Aural Rehabilitation (3)
CD 541	Fluency Disorders (3)

**Additional Requirements:**

BS 103	Human Biology (3)
EN 140	Rhetoric & Critical Thinking (3)
MA 134	College Algebra (3)
PS 103	U.S. Political Systems (3)
PY 101	Psych Perspectives/Hum Behr (3)

**OR**

PY 102	Intro to Psychology (3)
SC 105	Fund of Oral Communication (3)
US 105	American History I (3)

**OR**

US 107	American History II (3)
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**Choose One of the Following:**

MA xxx	Additional Math course (above MA 134) (2-3)
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**OR**

PY 271	Research Design & Analysis (3)
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**OR**

PY 572	Intro Behavioral Stats (3)
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**OR**

MA 155	Statistical Reasoning (3)
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**Choose One of the Following:**

CH 180	Chemistry in Our World (3)
PH 106	Physical Concepts (3)

**Choose One of the Following:**

CD 110	Language Culture of Deaf (3)
SO 102	Society, Culture & Social Behavior (3)



**NOTE:** State and national certification in speech-language pathology (American Speech-Language-Hearing Association and Missouri Department of Elementary and Secondary Education) requires that applicants complete a core of courses in the humanities, professional education, biological/physical sciences, mathematics, behavioral and social sciences. Students should work closely with a departmental advisor in selecting appropriate University Studies and professional education courses which meet these certification requirements.

- CS 315 C & the Unix Environment (3)
- CS 480 Data Communications (3)

**Track 4 – No Minor Required**

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 300 Computer Science III (4)
- CS 315 C & the Unix Environment (3)
- IS 360 Mobile Application Development (3)
- xx xxx Chosen with direction of Computer Science Dept (15)

**COMPUTER INFORMATION SYSTEMS**

**58-61 Hour Major - Minor Required for Certain Tracks**

**Required Courses:**

- CS 003 Computer Info Systems Assmnt (0)
- CS 245 Discrete Structures I (3)
- CS 495 Senior Seminar (1)
- IS 130 Visual Basic Programming I (3)
- IS 175 Information Systems I (3)
- IS 245 Web Devlp & Security (3)
- IS 275 Information Systems II (3)
- IS 320 Human Computer Interaction (3)
- IS 330 Application Development II (3)
- IS 340 Information Technology (3)
- IS 375 Database & Info Systems (3)
- IS 445 Systems Analysis & Design (3)
- IS 448 IS/IT Project Management (3)
- IS 575 IS/IT Strategy & Management (3)
- IU 309 Prof Writing for Science/Technology (3)
- MA 139 Applied Calculus (3)
- MA 223 Probability & Statistics (3)
- UI 450 Capstone Experience (3)

**Choose One Track:**

**Track 1 – Choose Business Administration minor**

- AC 330 Accounting Info Systems (3)
- IS 360 Mobile Application Development (3)
- IS 440 Web Design for Elec Commerce (3)
- IS 465 Mgmt Support Systems (3)
- MK 555 Internet Marketing (3)

**Track 2 – Choose Graphics Communication Technology minor**

- AR 104 Design Foundations (3)
- AR 323 Art & New Technology (3)
- IS 360 Mobile Application Development (3)
- IS 440 Web Design for Elec Commerce (3)
- IS 465 Mgmt Support Systems (3)

**Track 3 – Choose Computer Networking minor**

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 300 Computer Science III (4)

**COMPUTER SCIENCE**

**82 Hour Major - No Minor Required Required Courses:**

- CS 003 Computer Science Assessment (0)
- CS 155 Computer Science I (4)
- CS 245 Discrete Structures I (3)
- CS 265 Computer Science II (4)
- CS 280 Computer Systems (3)
- CS 300 Computer Science III (4)
- CS 315 C & the Unix Environment (3)
- CS 331 Applications Programming (3)
- CS 345 Discrete Structures II (3)
- CS 350 Analysis of Algorithms (3)
- CS 380 Operating Systems (3)
- CS 390 Programming Languages (3)
- CS 440 Database (3)
- CS 445 Software Engineering I (3)
- CS 480 Data Communications (3)
- CS 495 Senior Seminar (1)
- IU 309 Prof Writing for Science/Technology (3)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 145 Analytic Geometry & Calculus II (4)
- MA 223 Probability & Statistics (3)
- MA 345 Linear Algebra (3)
- UI 450 Capstone Experience (3)

**Choose 3 hours CS prefix courses (300-500 level)**

**Choose 12 hours of science suitable for science majors, including a two-course sequence with a lab component in both courses. Choose from Biology, Chemistry, Geoscience, or Physics/Engineering Physics. Consult with advisor for approved sequences.**

**CORPORATE COMMUNICATION**

**48 Hour Major – Minor Required**

**Required Courses:**

- SC 001 Exit Interview (0)
- MG 301 Principles of Management (3)

- MK 301 Principles of Marketing (3)  
 MK 341 Public Relations (3)  
 SC 105 Fund of Oral Comm (3)  
**OR**  
 SC 155 Fund of Interpersonal Comm (3)  
 SC 330 Corporate & Professional Comm (3)  
 SC 335 Interviewing (3)  
 SC 483 Internship in Speech Comm (3)

- OR**  
 SC 496 Practicum in Corporate Comm (3)  
 SC 560 Organizational Comm (3)  
 UI 301 Managerial Communication (3)

**Choose 9 hours from:**

- SC 215 Intercultural Communication (3)  
 SC 310 Speech Writing (3)  
 SC 314 Argumentation & Problem Solving (3)  
 SC 320 Group Comm & Decision-Making (3)  
 SC 355 Relational Comm Strategies (3)  
 SC 406 Negotiation & Conflict Mgmt (3)  
 SC 463 Independent Study (3)  
 SC 510 Leadership and Team Building (3)  
 UI 345 Nonverbal Communication (3)  
 UI 425 Persuasion (3)

**Choose 6 hours from the following:**

- MK 342 Professional Selling (3)  
 MK 343 Advertising & Promotion (3)  
 MK 344 Consumer Behavior (3)  
 MK 345 Intro to Business Research (3)  
 MK 349 Retail Management (3)  
 MK 447 Sales Management (3)  
 MK 560 International Marketing (3)

**Choose 6 hours from the following:**

- MG 362 Management Skills (3)  
 MG 470 Leadership in Management (3)  
 MG 550 Improving Team Performance (3)  
 MG 560 International Management (3)

**CRIMINAL JUSTICE****45-54 Hour Major – No Minor Required****Required Courses:**

- CJ 100 Intro to Criminal Justice (3)  
 CJ 110 Intro to Law Enforcement (3)  
 CJ 125 Intro to Corrections (3)  
 CJ 220 Criminal Law (3)  
 CJ 370 Juvenile Justice (3)  
 CJ 400 Crisis Mgmt & Conflict Resol (3)  
 CJ 425 Planning/Resrch in Crim Justice (3)  
 CJ 499 Issues in Justice Admin (3)  
 SO 242 Statistics for Soc Scientists (3)  
 SO 305 Race, Gender, Class & Crime (3)

**Choose One 15-24 Hour Option:****CORRECTIONS**

- CJ 230 Correctional Institutions (3)  
 CJ 355 Constitutional Rights of Inmates (3)  
 CJ 365 Community-Based Corrections (3)  
 CJ 440 Theories/Methods of Offender Rehab (3)  
 CJ xxx CJ Course (300-500 level) (3)

**CRIMINOLOGY**

- CJ 375 Criminal Typology/Victimology (3)  
 SO 300 Organized/White-Collar Crime (3)  
 SO 360 Criminology (3)  
 SO 444 Deviant Social Behavior (3)  
 SO/CJ xxx SO or CJ course (300-500 level) (3)

**LAW ENFORCEMENT – choose one track:****Theoretical Track**

- CJ 310 Advanced Police Administration (3)  
 CJ 330 Criminal Investigations (3)  
 CJ 422 Criminal Procedure (3)  
 CJ 430 Policing/Information Age (3)  
 CJ xxx CJ Course (300-500 level) (3)

**Practical Track**

- LE 199 Basic LEA I (6)  
 LE 299 Basic LEA II (6)  
 LE 399 Basic LEA III (6)  
 LE 499 Basic LEA IV (6)

**CYBERSECURITY****88 Hour Major – No Minor Required**

- CS 155 Computer Science I (4)  
 CS 265 Computer Science II (4)  
 CS 315 C & the UNIX Environ (3)  
 CY 201 Introduction to Cybersecurity (3)  
 CY 310 Info Security & Assurance (3)  
 CY 320 Info Security in System Admin (3)  
 CY 410 Web Application Security (3)  
 CY 420 Computer Forensics (3)  
 ET 245 Logic Circuits (3)  
 ET 366 Microcontrollers (3)  
 IM 102 Technical Communications (3)  
 IS 245 Web Development & Security (3)  
 IS 375 Database & Info Systems (3)  
 MA 133 Plane Trigonometry (3)  
 MA 134 College Algebra (3)  
 MA 223 Elementary Probability & Statistics (3)  
 MA 464 Mathematical Cryptography (3)  
 MN 220 Eng Economic Analysis (3)  
 PH 120 Introductory Physics I (5)  
 SW 207 Understanding Cult & Soc Diversity (3)  
 TN 254 Network Communications (3)  
 TN 255 Microcomputer Maintenance (3)

- TN 275 Network Fundamentals (3)
- TN 375 Network Routing Protocol & Concepts (3)
- TN 395 Server Maintenance and Troubleshooting (3)
- TN 425 Wireless Comm & Mobile Data Networks (3)
- TN 435 Network Security (3)
- UI 410 Manf Research in a Global Society (3)

## ECONOMICS

### 28 Hour Major - Minor Required

#### Required Courses:

- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)
- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- EC 498 Senior Seminar (1)

#### Any 3 hour college-level statistics course

#### Choose 12 Hours From:

- EC xxx EC course (235-500 level)
- UI 322 International Political Economy (3)
- UI 349 Comparative Economic Systems (3)
- UI 366 Law and Economics (3)
- UI 371 Government and Business (3)

**NOTE:** No more than 6 hours of UI courses may be selected.

## ENGINEERING PHYSICS

Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>

### 60-62 Hour Major - No Minor Required

#### Required Courses:

- EP 100 Physics & Engineering Concepts (1)
- EP 240 Circuit Analysis (4)
- EP 261 Engineering Mech: Statics (3)
- EP 262 Engineering Mech: Dynamics (3)

#### OR

- PH 370 Mechanics (3)
- EP 340 Electronic Circuits (4)
- EP 372 Signals and Systems (3)
- EP 380 Engineering Design & Research (1)
- EP 480 Capstone Design I (1)
- PH 230/030 General Physics I (5)
- PH 231/031 General Physics II (5)
- PH 360 Modern Physics (3)
- PH 371 Electromagnetics (3)
- UI 330 Experimental Methods I (3)
- UI 450 Capstone Experience (3)

#### Additional Requirements: 31 Hours

- CH 185/085/005 General Chemistry (5)
- CS 177 Prog for Scientists & Engr (3)
- MA 140 Analytic Geometry & Calculus I (5)

- MA 145 Analytic Geometry & Calculus II (4)
- MA 240 Analytic Geometry & Calculus III (3)
- MA 245 Vector Calculus (2)
- MA 345 Linear Algebra (3)
- MA 350 Differential Equations (3)
- MN 120 Fund of Engr Design Processes (3)

#### Choose One Option:

#### COMPUTER APPLICATIONS (20 HOURS)

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 315 C & the Unix Environment (3)
- EP 305 Digital & Analog System Design (3)
- EP 310 Microcomputer Interfacing (3)
- EP 461 Computer Applications (3)

#### ELECTRICAL APPLICATIONS (18 HOURS)

- EP 305 Digital & Analog System Design (3)
- EP 310 Microcomputer Interfacing (3)
- EP 361 Thermal Analysis (3)
- EP 374 Control Systems (3)
- EP 462 Material Science (3)
- PH 341 Optics (3)

#### MECHANICAL APPLICATIONS (19 HOURS)

- EP 263 Mechanics of Materials (4)
- EP 361 Thermal Analysis (3)
- EP 363 Thermal Fluid Engr (3)
- EP 374 Control Systems (3)
- EP 462 Material Science (3)
- MN 350 Machine Design (3)

## ENGINEERING TECHNOLOGY

### 101 Hour Major - No Minor Required

- CH 181 Basic Principles of Chemistry (5)
- ET 304 Intro to PLCs (3)
- IM 102 Technical Communications (3)
- IM 301 Industrial Safety Supervision (3)
- IM 311 Statistical Process Control (3)
- MA 133 Trigonometry (3)
- MA 134 College Algebra (3)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 144 Integral Calculus & Differential Equations (5)
- MN 220 Engineering Economic Analysis (3)
- MN 260 Techncl Computer Programng Appl (3)
- MN 356 Robotic Fundamentals (3)
- MN 383 Fluid Power (3)
- MN 412 Advanced Manufacturing Systems (3)
- MN 416 Manufacturing Seminar (1)
- PH 120 Introductory Physics I (5)
- PH 121 Introductory Physics II (5)
- SW 207 Understanding Cult & Social Div (3)
- UI 319 Science, Tech, & Society (3)
- UI 410 Manufacturing Research (3)

**Choose One 33 Hour Option:****ELECTRICAL AND CONTROL:**

- ET 162 DC Principles & Circuits (3)  
 ET 164 AC Principles & Circuits (3)  
 ET 245 Logic Circuits (3)  
 ET 260 Electronic Circ Design/Analysis I (3)  
 ET 365 Industrial Electrical Power (3)  
 ET 366 Microcontrollers (3)  
 ET 367 Motor Control and Drive Systems (3)  
 ET 374 Industrial Electronics (3)  
 ET 468 Industrial Control (3)  
 ET 470 Energy Management (3)  
 TN 254 Fiber Optics/Network Comm (3)

**OR**

- TN 255 Microcomputer Maint (3)

**MECHANICAL & MANUFACTURING SYSTEMS:**

- ET 160 Basic Electricity & Electronics (3)  
 MN 120 Fund of Engr Design Processes (3)  
 MN 170 Industrial Materials & Testing (3)  
 MN 203 Industrial Materials & Processes I (3)  
 MN 219 Statics & Strength of Materials (3)  
 MN 221 Solid Modeling & Rapid Prototyping (3)  
 MN 304 Industrial Materials & Processes II (3)  
 MN 324 Mechanical Design Processes (3)  
 MN 350 Machine Design (3)  
 MN 354 Computer Aided Manufacturing (CAM) (3)  
 MN 402 Plastics & Processes (3)

**ENVIRONMENTAL SCIENCE****79-93 Hour Major - No Minor Required****Required Courses:**

- BI 153 Intro to Organismal Bio (4)  
 BI 332 General Ecology (3)  
 BS 105 Environmental Biology (3)  
 CH 185 General Chemistry (5)  
 CH 186 Found of Inorganic Chem (3)  
 EC 344 Environmental Economics (3)  
 EV 201 Environmental Science Seminar I (1)  
 EV 401 Environmental Science Seminar II (1)  
 EV 454 Risk Assessment Applications (3)  
 EV 481-483 Internship (3)

**OR**

- EV 491-493 Research (3)  
 EV xxx EV Course (300-500 level) (3)  
 GO 110 Physical Geology (3)  
 GO 365 Environmental Soil Science (3)  
 GO 460 Environmental Hydrology (3)  
 MA 139 Applied Calculus (3)

**OR**

- MA 140 Analytical Geometry & Calculus I (5)  
 MA 223 Elementary Probability & Statistics (3)

- PH 106 Physical Concepts (3)

**OR**

- PH 120 Introductory Physics I (5)  
 UI 429 Environmental Ethics (3)

**Choose 6 Hours From:**

- UI 331 Found of Biochemistry (3)  
 UI 360 Recycling & Waste Management (3)  
 UI 373 Earth/Life Through Time (3)  
 UI 386 Environmental Health (3)\*  
 UI 387 Environmental Law & Public Policy (3)\*\*

*\*Required for Environmental Health and Policy & Communication Options*

*\*\*Required for Policy & Communication Option*

**Choose One Option:****BIOLOGY (28-29 Hours)**

- BI 151 Biological Reasoning (3)  
 BI 152 Intro to Scientific Investigation (1)

**Choose 2 Courses From:**

- BI 200 Microbiology (3)  
 BO 200 Plant Biology (4)  
 ZO 200 Animal Biology (3)

**Additional Required Courses:**

- CH 187 Inorg Chem & Qual Analys Lab (2)  
 CH 341 Found of Organic Chem (4)  
 CH 342 Organic Chemistry Lab I (1)  
 CH 450 Environmental Chemistry (3)

**Choose 8 Hours From:**

- BI 381 Molecular Genetics (3)  
 BI 420 Principles of Wildlife Management (3)  
 BI 430 Management of Wildlife Habitat (3)  
 BI 432 Advanced Ecology (3)  
 BI 435 Conservation Biology (3)  
 BI 440 Ecology & Management of Wetlands (3)  
 BI 441 Virology (3)  
 BI 442 Immunology (3)  
 BI 443 Epidemiology (3)  
 BI 445 Microbial Physiology (3)  
 BI 452 Limnology (3)  
 BI 453 Occupational Health (3)  
 BI 455 Industrial Hygiene (3)  
 BI 460 Introduction to Toxicology (3)  
 BI 469 Wildlife Toxicology (3)  
 BI 471-473 Internship in Biology (1-3)  
 BI 543 Pathogenic Microbiology (2)  
 BI 544 Pathogenic Microbiology Laboratory (1)  
 BI 589-591 Biological Research (1-3)  
 BO 361 Systematic Botany (3)  
 BO 445 Plant Physiology (3)  
 BO 461 Native Aquatic Plants (3)  
 BO 469 Field Botany (3)  
 ZO 331 Animal Physiology (3)

- ZO 459 Mammalogy (3)
- ZO 460 Herpetology (3)
- ZO 466 Ornithology (3)
- ZO 469 Vertebrate Adaptations (3)
- ZO 478 Ichthyology (3)

**BUSINESS (21 Hours)**

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- EC 225 Principles of Macroeconomics (3)
- FI 361 Financial Management (3)
- MG 301 Principles of Management (3)
- MI 375 Management Information Systems (3)
- MK 301 Principles of Marketing (3)

**CHEMISTRY (28 Hours)**

- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)
- CH 311 Found of Phys Chem (4)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- CH 450 Environmental Chemistry (3)
- PH 121 Introductory Physics II (5)
- UI 443 Prof Experience in Chem (3)

**Choose 1 Course From:**

- CH 313 Phys Chem Lab (3)
- CH 343 Advanced Organic Chemistry (3)
- CH 344 Organic Chemistry Lab II (2)
- CH 391 Undergraduate Research (1-3)
- CH 447 Adv NMR Techniques (3)
- CH 545 Organic Preparations & Characterizations (3)
- CH 575 Chemical Instrumentation (4)
- CH 531/UI 331 Found of Biochemistry (3)

**ENVIRONMENTAL HEALTH (24-25 Hours)**

- EV 443 Epidemiology (3)
- EV 453 Occupational Health (3)
- EV 455 Industrial Hygiene (3)
- EV 460 Introduction to Toxicology (3)
- EV 551 Hazardous Materials Assessment (3)

**NOTE:** One of the EV courses above will satisfy the 3 hours of elective credit in the Environmental Science core course requirements.

**Choose 1 Course From:**

- BI 485 Topics in Biology (3)
- BI 543 & 544 Pathogenic Microbiology & Lab (3)
- BS 332 Human Physiology (3)
- EN 301 Writing for Science & Technology (3)
- HL 210 Health & Safety (2)
- HL 320 Community Health (3)

**Additional Required Courses:**

- CH 187 Inorg Chem & Qual Analys Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- CH 450 Environmental Chemistry (3)

**GEOPROCESSING AND SOILS (25 Hours)**

- AG 440 Precision Agriculture (3)
- GO 340 Remote Sensing (3)

**OR**

- AG 551 Water Management (3)
- GO 445 Geographic Information Systems (3)
- GO 555 Soil Class & Res Mgmt (3)

**Choose 3 Hours From:**

- AO 427 Soil Fertility & Plant Nutr (3)
- BI 440 Ecology & Mgmt of Wetlands (3)

**Additional Required Courses:**

- CH 187 Inorg Chem & Qual Analys Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- CH 450 Environmental Chemistry (3)

**POLICY AND COMMUNICATION (18 Hours)**

- MC 201 Writing for Mass Media (3)
- PS 230 American Public Policy (3)

**OR**

- PS 280 Intro to Global Issues (3)
- PS 491 Topics in Political Science (3)
- SC 200 Advanced Public Speaking (3)

**HEALTH MANAGEMENT**

**61-72 Hour Major - No Minor Required**

- FN 235 Nutrition for Health (3)
- HL 111 Intro to Health Management (3)
- HL 120 Health Perspectives (3)
- HL 231 Fitness Conditioning (3)
- HL 312 Sport and Exercise Pharmacology (3)
- HL 331/031 Exercise Physiology (3)
- HL 431 Fitness Assmt & Exercise Prog (4)
- HL 460 Exercise Leadership (3)
- HL 498 Health Internship (12)

**Choose One Option:**

**EXERCISE SCIENCE (24 Hours)**

- HL 251 Intro to Athletic Injuries (3)
- HL 261 Exercise Science Practicum (3)
- HL 303 Research Methods (3)
- HL 332 Lifestyle Disease Risk Reduction (3)
- HL 471 Fitness Facility Admin (3)
- PE 464 Kinesiology (3)

**Electives - 6 Hours:**

- FN 200-500 approved by advisor (3)
- HL 300-500 approved by advisor (3)

**HEALTH PROMOTION (27 Hours)**

- FN 255 Nutrition I (3)

**OR**

- FN 355 Lifespan Nutrition (3)
- HL 260 Health Promotion Practicum (3)
- HL 303 Research Methods (3)

- HL 332 Lifestyle Disease Risk Reduction (3)
- HL 432 Health Promotion Programs (3)
- HL 490 Program Planning & Evaluating (3)
- MG 301 Principles of Management (3)

**OR**

- MK 301 Principles of Marketing (3)
- MG 3xxx Upper division MG elective (3)

**OR**

- MK 343 Advertising & Promotion (3)
- UI 354 Lifestyle Enhancement (3)

**Additional Requirements: 14-20 Hours**

- BS 113/013 Anatomy & Physiology I (4)
- BS 114/014 Anatomy & Physiology II (4)
- CH 180 Chemistry in Our World (3)

**OR**

- CH 181 Basic Principles of Chemistry (5)
- MA 134 College Algebra (3)

**HISTORIC PRESERVATION**

**66 Hour Major – No Minor Required**

**HISTORIC PRESERVATION REQUIREMENTS**

**Required Historic Preservation Core:**

- HP 007 Professional Portfolio Review (0)
- HP 100 Intro to Historic Preservation (3)
- HP 200 Intro to Techniques of Local History (3)
- HP 450 Problems in Historic Preservation (3)
- HP 585 History of American Architecture (3)
- HP 588 Legal & Econ Prin of Historic Preserv (3)

**Required History Core:**

- GH 315 Historiography (3)
- US 105 American History I (3)
- US 107 American History II (3)

**Public History Breadth Requirements - choose 6 hours:**

- HP 405 Archives & Spec Collections Management (3)
- HP 410 Museum Studies (3)
- HP 420 Historic Site Administration (3)
- History Breadth Electives - choose 6 hours:  
Any EH, GH, US, or WH 200-500 level or approved departmental UI course

**History Breadth Senior Division Electives - choose 3 hours:**

- Any EH, GH, US, or WH 400-500 level or approved departmental UI course

**Historic Preservation Elective – choose 6 hours:**

- AN 382 Archaeology: Method & Theory (3)
- HP 552 Historic Preservation Field School (3)
- HP 580 Hist of Am Bldg Mats and Tech (3)
- HP 589 Hist Pres-Based Econ Revital (3)
- Any HP topics course or an additional HP Breadth Requirement.

**INTERNSHIP REQUIREMENT (Choose 9 Hours):**

- HP 500 Historic Preservation Internship I (3)
- HP 501 Historic Preservation Internship II (6)
- HP 502 Historic Preservation Internship III (9)

**ADDITIONAL INTERDISCIPLINARY REQUIREMENTS**

**Choose 6 Hours:**

- AG 440 Precision Agriculture (3)
- CM 100 Introduction to Drafting (3)
- CM 126 Computer Assisted Drafting (3)
- DS 104 Exploring Interior Design (3)
- MG 301 Principles of Management (3)
- MK 301 Principles of Marketing (3)
- PG 284 Photography Fundamentals (3)
- TH 101 Acting for Non-Majors (3)
- UI 351 Public Opinion (3)
- UI 400 Business & Ethics (3)
- UI 425 Persuasion (3)

**Choose 6 Hours From:**

- AH 511 American Art (3)
- CT 517 History of Costume (3)
- DS 206 History of Interiors II (3)
- IU 306 Perspectives of Urban Design (3)
- TH 395 Period & Style (3)
- UI 313 African-American Experience (3)
- UI 337 Issues in Modern Architecture (3)
- UI 339 North American Indians (3)
- UI 340 Housing Perspectives (3)
- UI 341 Victorian Studies (3)
- UI 401 American Cultural Landscapes (3)
- UI 446 Civil Rights Movement (3)

**HOSPITALITY MANAGEMENT**

**46 Hour Major – No Minor Required**

**Required Courses:**

- FN 150 Intro to Hospitality Mgmt (3)
- FN 205 Selection & Preparation of Foods (3)
- FN 235 Nutrition for Health (3)\*
- FN 260 Meeting & Event Mgmt (3)
- FN 270 Hotel & Resort Operations (3)
- FN 304 Food, Bev & Labor Cost Cntrls (3)
- FN 325 Hospitality Law (3)
- FN 350 Culinary Theory & Practice (3)
- FN 390 Hosp Sales & Marketing (3)
- FN 406 Hospitality & Institution Admin (3)
- FN 416 Quantity Food Production (4)
- FN 473 Internship in Hospitality Mgmt (12)

**Additional Requirements: 24 Hours**

- AC 221 Principles of Accounting I (3)
- AD 101 Intro to Microcomputer Appl (3)
- EC 101 Economic Problems & Policies (3)\*

**OR**

- EC 215 Prin of Microeconomics (3)\*
- MA 134 College Algebra (3)\*
- MG 301 Principles of Management (3)
- MG 356 Found of Human Resource Mgmt (3)
- MK 301 Principles of Marketing (3)
- SN 100 Spanish Language & Culture (3)\*

*\*Fulfills University Studies requirement*

**HUMAN ENVIRONMENTAL STUDIES:  
CHILD DEVELOPMENT OPTION**

**72 Hour Major - No Minor Required**

**Required Courses:**

- CF 102 Relationships in the 21st Century (3)
- CF 120 The Child: Devel/Conception to Adolsc (3)
- CF 124 Hlth/Nutr/Safety Child (3)
- CF 200 Constructive Guidance & Discipline (3)
- CF 209 Construct Guid & Discipline (3)
- CF 215 Observ: Perception & Process (3)
- CF 233 Creative Thought & Express in Children (3)
- CF 250 Family Child Care: Feasibility & Mgmt (3)
- CF 280 Learning Theory & Appl: Preschool (3)
- CF 285 Learn Theory/App: Infants & Toddlers (3)
- CF 300 Parent Education (3)
- CF 306 History/Theory of Child Devlpmnt (3)
- CF 310 School Age Child Care (3)
- CF 330 Middle Childhood/Youth Issues (3)
- CF 410 Culture & Ethnicity of the Child (3)
- CF 430 Parent Chld Intractns: Systems Appr (3)
- CF 475 Action Research for the Practitioner (3)
- CF 480 Child Development Career Internship (6)
- EX 390 Psych & Educ of the Exceptional Child (3)

**Choose One Track:**

**Administrative Track (12)**

- CF 315 Admin of Progr for Children & Youth (3)
- CF 350 Assessing/Teaching Young Children (3)
- CF 415 Legal Risks/Admin:Dec-Making in Prog (3)
- CF 420 Leadership/Advocacy for the Admin (3)

**Child & Youth Services Track (12)**

- CF 495 Interagency Collaboration (3)
- CF 520 Family Assessment (3)
- HS 551 Case Management (3)
- SW 354 Crisis Intervention (3)

**Additional requirements:**

(Some courses may fulfill University Studies requirements)

- BS 103 Human Biology (3)
- FE 200 Family Financial Management (3)
- LI 243 Children's Literature (3)
- MA 118 Mathematics I (3)
- PH 218 Physical Science: A Process Approach (3)
- PS 103 U.S. Political Systems (3)

- SW 121 Helping Skills for Human Services (3)
- US 105 American History I (3)

**OR**

- US 107 American History II (3)

**HUMAN ENVIRONMENTAL STUDIES:  
DIETETICS OPTION**

**47 Hour Major - No Minor Required**

**Required Courses:**

- FN 205 Food Selection & Preparation (3)
- FN 255 Nutrition I (3)
- FN 304 Food, Beverage & Labor Cost Cntrl (3)
- FN 320 Essentials of Food Science (4)
- FN 340 Professional Dietetic Seminar (1)
- FN 355 Lifespan Nutrition (3)
- FN 370 Nutrition Assessment (3)
- FN 406 Hospitality & Institution Admin (3)
- FN 416 Quantity Food Production (4)
- FN 502 Nutrition II (3)
- FN 503 Medical Nutrition Therapy I (4)
- FN 504 Medical Nutrition Therapy II (4)
- FN 525 Nutrition Counseling (3)
- FN 540 Community Nutrition (3)
- HE 520 Tech/Teaching Nutrition & Health Ed (3)

**Additional Requirements: 46 Hours**

(Some courses may fulfill University Studies requirements)

- AC 221 Principles of Accounting I (3)
- AD 101 Intro to Microcomputer Appl (3)
- BS 113 Anatomy & Physiology I (4)
- BS 114 Anatomy & Physiology II (4)
- BS 240 Microorganisms/Human Host (3)
- CH 181 Basic Prin of Chemistry (5)
- CH 234 Organic & Biol Chemistry (3)
- EN 140 Rhetoric & Critical Thinking (3)
- FN 235 Nutrition for Health (3)
- HL 331/ 031 Exercise Physiology (3)
- MA 134 College Algebra (3)
- MK 301 Principles of Marketing (3)
- PY 101 Psych Perspectives/Human Behavior (3)
- HL 303 Research Methods (3)

**HUMAN ENVIRONMENTAL STUDIES:  
FAMILY STUDIES OPTION**

**48 Hour Major - Minor Required**

**Required Courses:**

- CF 102 Relationships in the 21st Century (3)
- CF 120 The Child: Devel/Conception to Adolsc (3)
- CF 206 Intro to Gerontology (3)
- CF 207 Gerontology Practicum I (3)

- CF 209 Intro to Family Systems (3)
- CF 220 Young & Middle Adulthood (3)
- CF 300 Parent Education (3)
- CF 320 Life Skills Education (3)
- CF 340 Family Policy Law & Advocacy (3)
- CF 402 Marriage Interaction (3)
- CF 405 Special Population Practicum (3)
- CF 430 Parent-Child Interaction (3)
- CF 512 Family & Comm Resources (3)
- CF 520 Family Assessment (3)
- CF 565 Family Service Internship (6)

**Additional Requirements: 6 hours**

- FE 200 Family Resource Management (3)
- SW 121 Helping Skills in Human Services (3)

**HUMAN ENVIRONMENTAL STUDIES:  
FASHION MERCHANDISING OPTION**

**38 Hour Major - Retail Management Minor Required**

**Required Courses:**

- DS 114 Display Design (3)
- FA 110 Intro to Fashion Merchandising (3)
- FA 207 Textiles (3)
- FA 230 Apparel Analysis (3)
- FA 300 Professional Image & Behavior (2)
- FA 350 Apparel Aesthetics (3)
- FA 410 Internship (6)
- FA 415 Fashion Retailing (3)
- FA 420 Specialty Markets (3)
- FA 450 Issues & Trends in Fash Merch (3)
- FA 517 History of Costume (3)
- FA 518 Soc Psych Aspects of Clothing (3)

**Additional Requirements: 15 Hours**

- AD 101 Intro to Microcomp Appl (3)
- AR 104 Design Foundations (3)
- EC 101 Economic Problems & Policies (3)
- MG 301 Principles of Management (3)
- MG 356 Found of Human Resources Management (3)

**HUMAN ENVIRONMENTAL STUDIES:  
INTERIOR DESIGN OPTION**

**61 Hour Major - No Minor Required**

**Required Courses:**

- CT 207 Textiles I (3)
- DS 001 Portfolio Review (0)
- DS 104 Exploring Interior Design (3)
- DS 111 Design Process (3)
- DS 205 History of Interiors I (3)
- DS 206 History of Interiors II (3)
- DS 207 Interior Systems I (3)
- DS 208 Interior Systems II (3)

- DS 211 Basic Kitchen/Bath Design (3)
- DS 220 Design Communications (3)
- DS 313 Sustainable Design (3)
- DS 314 Multicultural Design (3)
- DS 320 Adv Design Communications (3)
- DS 330 Lighting/Electrical Systems (3)
- DS 332 Materials/Cost Estimating (3)
- DS 410 Hospitality Design (3)
- DS 411 Adv Kitchen/Bath Design (3)
- DS 412 Contract Design (3)
- DS 440 Internship in Interior Design (4)
- DS 450 Prof Prac/Interior Design I (3)
- DS 451 Prof Prac/Interior Design II (3)

**Choose Three Hours from the Following Courses:**

- CM 310 Constr Codes & Compliance (3)
- FM 544 Sustain Constr Mats & Tech (3)
- MG 301 Principles of Management (3)

**Additional Requirements: 24 Hours**

- AR 112 Perspectives in Art (3)\*
- CM 126 Computer Aided Arch Drafting (3)
- CM 226 Residential Arch Drftg & Design (3)
- CM 322 Comm Arch Drftg & Design (3)
- MA 134 College Algebra (3)\*
- MK 301 Principles of Marketing (3)
- UI 340 Housing Perspectives (3)\*

*\*Some courses may fulfill University Studies requirements.*

**INTERDISCIPLINARY STUDIES**

**69 Hour Major - No Minor Required**

The Interdisciplinary Studies major allows students to create a personalized academic program tailored to their individual career goals by completing courses across multiple academic disciplines. Students work with faculty advisors in their selected areas of emphasis to create a personalized plan of study. The Interdisciplinary Studies plan of study must be approved by faculty advisors in each area, the Dean of the School of University Studies, and the Registrar before completion of 75 hours. A cumulative grade point average of 2.5 is required for graduation. For additional information about the major, students should contact an advisor in the Collaborative Advising Center or visit the web page at <http://www.semo.edu/usac>.

**Required courses:**

**University Studies requirements 51 hours**

**Two, three or four areas of emphasis 69 hours\***

*\*Minimum of 12 hours; maximum of 30 hours in each area*



**MASS COMMUNICATION**

**36 Hour Major – Minor Required**

*(A grade of ‘C’ or higher is required in all courses within the major except MC 001, MC 486 & MC 496 which are credit/no credit courses.)*

**Required Courses:**

- MC 001 Exit Interview (0)
- MC 101 Mass Comm & Society (3)
- MC 301 Mass Comm/Theory/Research (3)
- MC 304 Diversity in Communication (3)
- MC 401 Communication Law (3)
- MC xxx Electives (3)

**Additional Requirements:**

- MA 155 Statistical Reasoning (3)\*
  - UI 382 Hist & Phil of American Mass Media (3)\*
- \*A grade of ‘C’ or higher is required in MA 155 and UI 382.*

**Choose One 21 Hour Option:**

**ADVERTISING**

- MC 211 Advertising & Society (3)
- MC 310 Adv Analysis & Strategy (3)
- MC 312 Adv Creative Concepts (3)
- MC 316 Advertising Media (3)
- MC 318 Adv Digital Applications (3)
- MC 418 Advertising Campaigns (3)
- MC 429 Media Management (3)

**MULTIMEDIA JOURNALISM**

- MC 221 Media Elements (3)
- MC 320 Media News (3)
- MC 322 Design for Media (3)
- MC 326 Sound for Media (3)
- MC 327 Visuals for Media (3)
- MC 421 Media Storytelling (3)
- MC 429 Media Management (3)

**PUBLIC RELATIONS**

- MC 231 Strategic Relations (3)
- MC 330 PR Principles (3)
- MC 331 Strategic Writing (3)
- MC 333 Strategic Production (3)
- MC 334 PR Research and Strategy (3)
- MC 430 Strategic Communication Issues (3)
- MC 434 PR Case Studies & Campaigns (3)

**TELEVISION & FILM**

- MC 251 TV & Film in America (3)
- MC 351 Basic TV & Film Production (3)
- MC 352 Video Postproduction (3)
- MC 354 Screenwriting (3)
- MC 366 Television Directing (3)
- MC 451 Advanced Film Production (3)
- MC 469 Adv Video Production (3)

**NOTE:** Completion of a minimum of 83 hours outside of the MC prefix with 68 of those hours selected from traditional Arts and Sciences courses.

**MATHEMATICS**

**43 Hour Major - No Minor Required**

**Required Courses:**

- MA 003 Math Major Field Achvmt Test (0)
- MA 138 Discrete Mathematics I (3)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 145 Analytic Geometry & Calculus II (4)
- MA 240 Analytic Geometry & Calculus III (3)
- MA 250 Foundations of Mathematics (3)
- MA 448 Mathematics Seminar (1)

**Choose One 24 Hour Option:**

**PURE MATHEMATICS**

- MA 345 Linear Algebra (3)
- MA 445 Modern Algebra (3)
- MA 523 Probability & Statistics I (3)
- MA 546 Advanced Calculus I (3)

**Choose 12 Hours MA courses higher than MA 250. One course must be chosen from MA 524, MA 540, MA 545, MA 547, MA 550**

**APPLIED MATHEMATICS & STATISTICS**

- MA 223 Elem Probability & Statistics (3)

**Choose 3 Hours From:**

- MA 445 Modern Algebra (3)
- MA 523 Probability & Statistics I (3)
- MA 546 Advanced Calculus I (3)

**Choose 15 Hours From (include at least 3 MA courses):**

- MA 245 Vector Calculus (2)
- MA 338 Discrete Math II (3)
- MA 345 Linear Algebra (3)
- MA 350 Differential Equations I (3)
- MA 423 Statistical Analysis for Forensic Science (3)
- MA 464 Mathematical Cryptography (3)
- MA 486-488 Internship in Mathematics (1-3)
- MA 523 Probability & Statistics I (3)
- MA 524 Probability & Statistics II (3)
- MA 545 Linear Algebra & Matrices (3)
- MA 546 Advanced Calculus I (3)
- MA 547 Advanced Calculus II (3)
- MA 550 Differential Equations II (3)
- MA 580 Exp Design & Analysis of Variance (3)
- CH 311 Found of Physical Chem (4)
- CH 312 Advanced Physical Chem (3)
- CS 345 Discrete Structures II (3)
- EP 261 Eng Mech Statics (3)
- EP 262 Eng Mech Dynamics (3)
- EP 361 Thermal Analysis (3)

- EP 372 Signals & Systems (3)
- EP 374 Control Systems (3)
- PH 341 Optics (3)
- PH 370 Mechanics (3)
- PH 371 Electromagnetics (3)
- PH 570 Mathematical Physics (3)

**Choose 3 Hours From:**

- MA 524 Probability & Statistics II (3)
- MA 545 Linear Algebra & Matrices (3)
- MA 547 Advanced Calculus II (3)
- MA 550 Differential Equations II (3)

**MEDICAL TECHNOLOGY**

**74-78 Hour Major - No Minor Required**

**Required Courses:**

- BI 200 General Microbiology (3)
- BI 381 Molecular Genetics (3)
- BI 442 Immunology (3)
- BI 543 Pathogenic Microbiology (2)
- BI 544 Pathogenic Microbiology Laboratory (1)
- BS 103 Human Biology (3)

**OR**

- BS 108 Biology for Living (3)

**OR**

- BI 154 Genetics & Cellular Biology (4)
- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- MA 134 College Algebra or H.S. equiv (0-3)
- MA 223 Elem Probability & Statistics (3)
- ZO 331 Animal Physiology (3)

**OR**

- BS 332 Human Physiology (3)
- UI 331/CH 531 Found of Biochemistry (3)

**Clinical Year Program Off Campus (30 Hours)**

**PHYSICS**

**55 Hour Major - No Minor Required**

**Required Courses:**

- EP 100 Physics & Engineering Concepts (1)
- EP 340 Electronic Circuits (4)
- EP 361 Thermal Analysis (3)
- EP 462 Materials Science (3)
- PH 230/030 General Physics I (5)
- PH 231/031 General Physics II (5)
- PH 341 Optics (3)
- PH 345 Experimental Methods I (3)

**OR**

- UI 330 Experimental Methods I (3)
- PH 360 Modern Physics (3)
- PH 370 Mechanics (3)
- PH 371 Electromagnetics (3)
- PH 473 Quantum Mechanics (3)
- PH 477 Physics Seminar (1)
- PH 478 Undergraduate Research (1)
- PH 479 Undergraduate Research (2)
- PH 570 Mathematical Physics (3)

**Choose 9 Hours Approved Technical Electives\***

**Additional Requirements: 28 Hours**

- CH 185 General Chemistry (5)
- CS 177 Programming for Scientists & Engrs (3)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 145 Analytic Geometry & Calculus II (4)
- MA 240 Analytic Geometry & Calculus III (3)
- MA 245 Vector Calculus (2)
- MA 350 Differential Equations (3)
- MA xxx Math elective (300-500 level) (3)

*\*Choose from approved list with advice of advisor*

**POLITICAL SCIENCE**

**36 Hour Major - Minor Required**

**Required Courses:**

- PS 001 Senior Assessment (0)
- PS 103 U.S. Political Systems (3)

**OR**

- PS 104 Comparative Political Systems (3)
- PS 240 Intro to Political Science (3)
- PS 470 Politics of the Developed World (3)

**Select 3 Hours from Each of the Five Categories, plus 6 Additional Hours From One Category**

*(9 Hours of PS courses must be 300-500 level)*

**American Government & Politics**

- PS 310 Govt & Politics in American States (3)
- PS 335 American Foreign Policy (3)
- PS 360 Political Parties & Voting Behavior (3)
- PS 365 Legislative Process (3)
- PS 387-389 Independent Study in Poli Sci (1-3)
- PS 390 American Judicial System (3)
- PS 418 Public Policy Analysis (3)
- PS 490 Constitutional Law (3)
- UI 320 Modern Presidency (3)

**Comparative Government & Politics**

- IU 310 Govt & Pol of East Asia (3)
- PS 355 Less Developed Nations (3)
- PS 387-389 Independent Study in Poli Sci (1-3)
- PS 460 Govt & Politics West Europe (3)
- UI 350 Middle East Politics (3)

**International Politics**

- PS 280 Intro to Global Issues (3)
- PS 335 American Foreign Policy (3)
- PS 380 International Organizations (3)
- PS 387-389 Independent Study in Poli Sci (1-3)
- PS 580 International Politics (3)
- PS 595 International Law (3)
- UI 322 International Political Economy (3)

**Public Administration**

- PI 381-383 Internship in Political Science (1-3)
- PS 230 American Public Policy (3)
- PS 384-386 Internship in Political Science (3)
- PS 387-389 Independent Study in Poli Sci (1-3)
- PS 402 Fund of Public Administration (3)
- PS 403 Public Personnel Administration (3)
- PS 405 Org Theory/Behavior (3)
- PS 415 Government Budgeting Process (3)
- PS 418 Public Policy Analysis (3)
- PS 425 Administrative Law & Procedure (3)

**Political Theory**

- PS 387-389 Independent Study in Poli Sci (1-3)
- UI 342 Modern Political Thought (3)
- UI 357 Early American Political Thought (3)
- UI 358 Foundations of Political Thought (3)
- UI 361 Contemporary Political Theory (3)

**Choose 6 Additional Hours PS Electives**

**Additional Requirements: 11 Hours**

- AD 101 Intro to Microcomp Appl (3)

**Choose 3 Hours of Statistics:**

- MA 223 Elem Probability & Statistics (3)
- PY 271 Research Design & Analysis I (3)
- PY 571 Intro to Behavioral Statistics (3)
- QM 257 Business Statistics (3)
- SW 242 Statistics for Social Scientists (3)

**Additional Math Requirement:**

- MA xxx 5 Hours MA 123 or above (except MA 230, 318, 418)

**PSYCHOLOGY**

36 Hour Major - Minor Required

*(A grade of 'C' or better is required for Required Core Courses.)*

**Required Core Courses:**

- PY 102 Intro to Psychology (3)
- PY 103 Career Devlp in Psychology (3)
- PY 271 Research Design & Analysis I (3)
- PY 370 Research Design & Analysis II (3)
- PY 497 Historical Development of Psychology (3)

**Extended Core Courses: (Choose One Course From Each of the Following Five Areas) (15 hours)**

**Basic Processes**

- PY 362 Learning & Memory (3)

- PY 366 Intro to Sensation & Perception (3)
- PY 466 Intro to Physiological Psychology (3)

**Clinical/Personality**

- PY 432 Intro to Personality (3)
- PY 440 Abnormal Psychology (3)
- PY 441 Intro to Clinical Psychology (3)

**Cognition**

- PY 353 Social Cognition (3)
- PY 364 Comparative Cognition (3)
- PY 460 Cognitive Processes (3)

**Developmental Psychology**

- PY 120 The Child: Devel/Concept to Adolsc (3)
- PY 220 Psychological Devel Across Life Span (3)
- PY 222 Development of the Adolescent (3)
- PY 525 Maturity & Aging (3)

**Social/Applied Psychology**

- PY 250 Applied Psychology (3)
- PY 251 Industrial/Organizational Psychology (3)
- PY 358 Social Psychology (3)

**Choose 6 hours from:**

- PY 250 Applied Psychology (3)
- PY 251 Industrial/Organizational Psychology (3)
- PY 301 Cross-Cultural Psychology (3)
- PY 325 Psychological Devel of the Family (3)
- PY 329/529 Psychology of Death & Dying (3)
- PY 353 Social Cognition (3)
- PY 358 Social Psychology (3)
- PY 359 Psychology & the Law (3)
- PY 362 Learning & Memory (3)
- PY 364 Comparative Cognition (3)
- PY 366 Intro to Sensation & Perception (3)
- PY 432 Intro to Personality (3)
- PY 440 Abnormal Psychology (3)
- PY 441 Intro to Clinical Psychology (3)
- PY 442 Psychotherapy (3)
- PY 444 Childhood Psychopathology (3)
- PY 460 Cognitive Processes (3)
- PY 465 Motivation & Emotion (3)
- PY 466 Intro to Physiological Psychology (3)
- PY 484 Advanced Research in Psychology (3)
- PY 495 Internship in Psychology (3)
- PY 521 Advanced Child Development (3)
- PY 525 Maturity & Aging (3)
- PY 531 Psychological Testing (3)
- PY 555 Health Psychology (3)

**RECREATION**

**57 Hour Major - No Minor Required Required Courses:**

- RC 100 Leisure in a Diverse Culture (3)
- RC 140 Intro to Recreation Services (3)

- RC 220 Leadership and Group Dynamics (3)
- RC 260 Intro to Therapeutic Recreation (3)
- RC 288 Practicum in Recreation Services (3)
- RC 303 Research Methods (3)
- RC 380 Programming for Recreation Services (3)
- RC 385 Rec Facilities Planning & Mgmt (3)
- RC 405 Trends & Issues in Rec & Leisure (3)
- RC 420 Organization & Admin of Rec Svcs (3)
- RC 440 Facilitation of Group Development (3)
- RC 497 Recreation Internship (12)

**Choose 12 Hours From:**

- RC 112 Intro to Music Therapy (3)
- RC 116 Special Topics in Health & Leisure (1-3)
- RC 119 Outdoor Adventure Special Topics (1-3)
- RC 150 Outdoor Living Skills (3)
- RC 151 Outdoor Adventure Skills (3)
- RC 210 Camp Leadership (3)
- RC 230 Recreational Sports (3)
- RC 245 Mentoring Principles & Practices (3)
- RC 250 Foundations of Outdoor Recreation (3)
- RC 270 Commercial Recreation (3)
- RC 300 Leisure Education (3)
- RC 304 Therapeutic Rec & Prog Design (3)
- RC 310 Outdoor Leadership (3)
- RC 311 Parks/Outdoor Resource Mgmt (3)
- RC 316 Special Topics in Health & Leisure (1-3)
- RC 324 Independent Study/Therapeutic Rec (3)
- RC 345 Youth Development Through Leisure (3)
- RC 360 Therapeutic & Adapted Rec Svcs (3)
- RC 812 Outdoor Adventure (3)
- RC 450 Outdoor Adventure Therapy (3)
- RC 460 Problems & Issues in Therapeutic Rec (3)
- UI 354 Lifestyle Enhancement (3)\*
- UI 387 Environ Law & Public Policy (3)\*
- UI 427 Service & Community (3)\*
- UI 429 Environmental Ethics (3)\*

\*Only 3 hours of UI courses may be applied to the elective hours.

**SOCIAL WORK**

**60 Hour Major - No Minor Required**

*(See Admission to Social Work Program criteria under Admissions, page 14. A grade of 'C' or better is required in all courses within the major including additional requirements.)*

**Required Courses:**

- SW 110 Intro to Social Work (3)
- SW 201 Social & Economic Justice (3)
- SW 207 Undrstdng Cultrl & Soc Diversity (3)
- SW 221 Interviewing Skills for Generalist Pract (3)
- SW 222 Case Management (3)
- SW 242 Statistics for Social Scientists (3)

- SW 307 Human Behav/Social Environment I (3)
- SW 308 Human Behav/Social Environment II (3)
- SW 310 Social Welfare Policies & Services (3)
- SW 321 Social Work Practice I (3)
- SW 322 Social Work Practice II (3)
- SW 323 Social Work Practice III (3)
- SW 342 Meth of Soc Resrch/Generalist Practc (3)
- SW 449 Social Work Integrative Seminar (3)
- SW 450 Field Education (12)

**Choose 6 Hours From:**

- SW 351 Child Welfare Services (3)
- SW 352 Social Welfare Services to the Aged (3)
- SW 353 Child Development (3)
- SW 354 Crisis Intervention (3)
- SW 355 Special Topics in Social Work (3)
- SW 356 Social Work in Mental Health (3)
- SW 387-389 Independent Study in Social Work (1-3)  
*(With approval from advisor, one other 300 or 400 level course may be substituted for a Social Work elective.)*

**Additional Requirements: 3 Hours**

- PY 101 Psych Perspectives/Human Behavior (3)

**SPORT MANAGEMENT**

**42 Hour Major – Business Administration Minor Required**

**Required Core Courses:**

- MK 351 Sport Marketing (3)
- PE 201 Sport & Society (3)
- SM 220 Intro to Sport Management (3)
- SM 340 Sport Ethics (3)
- SM 360 Sporting Event Management (3)
- SM 370 Practicum in Sport Management (2)
- SM 455 Sport-Related Venue Design & Operation (3)
- SM 460 Fund of Sport Delivery Systems (3)
- SM 465 Prof Seminar in Sport Mgmt (1)
- SM 470 Sport Management Internship (12)
- SM 540 Legal Aspects of Sport & Physical Activity (3)
- SM 570 Mgmt & Leadership in Sport Organizations (3)

**Required Support Courses:**

- MC 101 Mass Communication & Society (3)
- PL 204 Ethical Theory (3)
- SC 105 Fundamentals of Oral Communication (3)
- SC 155 Fundamentals of Interpersonal Communication (3)

**TECHNOLOGY MANAGEMENT**

**85-86 Hour Major - No Minor Required**

**Required Courses:**

- IM 102 Technical Communication (3)
- IM 301 Industrial Safety Supervision (3)
- IM 311 Statistical Process Control (3)
- IM 419 Industrial Supervision (3)

- IM 506 Projects in IET (3)
- MA 133 Plane Trigonometry (3)
- MA 134 College Algebra (3)
- MN 220 Engineering Econ Analysis (3)
- MN 260 Tech Computer Programming Appl (3)
- PH 120 Introductory Physics I (5)\*

**OR**

- PH 106 Physical Concepts (3)\*
- PH 121 Introductory Physics II (5)\*

**OR**

- CH 181 Basic Principles of Chemistry (5)\*
- SW 207 Understanding Cult & Soc Diversity (3)
- UI 410 Manufac Research/Global Society (3)

*\*Computer & Multimedia Graphics, Construction Management & Design, Industrial Management and Sustainable Energy Systems Management must take CH 181; Telecommunications & Computer Networking option must take PH121; Computer & Multimedia Graphics is the only option that can take PH 106.*

**Choose One Option:**

**COMPUTER & MULTIMEDIA GRAPHICS**

**(45 Hours)**

- GM 180 Intro to Technical Graphics (3)
- GM 200 Vector & Bitmapped Graphics for Industry (3)
- GM 282 Vector Graphics (3)
- GM 320 Graphic User Interface Design (3)
- GM 326 Interactive Multimedia (3)
- GM 380 3D Modeling & Animation Prod (3)
- GM 385 HD Video for Multimedia (3)
- GM 386 Interactive Multimedia & Animation (3)
- GM 480 3D Animation Pipeline (3)
- GM 490 Advanced Graphics Projects (3)
- PG 284 Photography Fundamentals (3)
- PG 285 Commercial Photographic Lighting (3)
- PG 286 Commercial Studio Photography (3)
- PG 384 Commercial Photography I (3)
- TN 254 Fiber Optics/Network Comm (3)

**OR**

- TN 255 Microcomputer Maint & Trblshntg (3)

**CONSTRUCTION MANAGEMENT & DESIGN**

**(42 Hours)**

- CM 126 Computer Aided Arch Drafting (3)
- CM 226 Resid Arch Drafting & Design (3)
- CM 243 Construction Methods & Matls (3)
- CM 310 Construction Codes & Compliance (3)
- CM 315 Construction Contracts & Legal Issues (3)
- CM 320 Construction Cost Estimating (3)
- CM 322 Comm Arch Drftg & Design (3)
- CM 325 Bldg Mechanical & Electrical Syst (3)
- CM 330 Construction Planning Scheduling (3)
- CM 343 Construction Surveying & Testing (3)
- CM 410 Construction Project Administration (3)

- IM 317 Internship (3)
- MA 139 Applied Calculus (3)
- MN 219 Statics & Strength of Materials (3)

**FACILITIES MANAGEMENT & SUSTAINABILITY**

**(42 Hours)**

- CM 126 Computer Aided Arch Drafting (3)
- CM 226 Resid Arch Drafting & Design (3)
- CM 310 Construction Codes & Compliance (3)
- CM 320 Construction Cost Estimating (3)
- CM 325 Bldg Mechanical & Electrical Syst (3)
- CM 330 Construction Planning Scheduling (3)
- CM 510 Building Information Modeling (3)
- FM 504 Facilities Management (3)
- FM 544 Sust Constr Matls & Tech (3)
- FM 554 Facilities Operation & Supervision (3)
- FM 564 Sust Facility Planning & Design (3)
- FM 565 Building Energy Management (3)
- IM 317 Internship (3)
- MA 139 Applied Calculus (3)

**INDUSTRIAL & SAFETY MANAGEMENT**

**(42 Hours)**

- ET 160 Basic Electricity & Electronics (3)
- ET 304 Intro to PLCs (3)
- EV 453 Occupational Health (3)
- EV 454 Risk Assessment Appl (3)
- EV 455 Industrial Hygiene (3)
- IM 313 Facilities Planning (3)
- IM 315 Work Measurement (3)
- IM 411 Total Quality Assurance (3)
- IM 417 Manufacturing Resource Analysis (3)
- MA 139 Applied Calculus (3)
- MN 120 Fund of Engr Design Processes (3)
- MN 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Process I (3)
- MN 304 Industrial Materials & Processes II (3)

**SUSTAINABLE ENERGY SYSTEMS MANAGEMENT**

**(42 Hours)**

- ET 160 Basic Electricity & Electronics (3)
- ET 365 Industrial Electrical Power (3)
- ET 426 Sustainable Energy Tech (3)
- ET 463 Photovoltaic Syst Analysis & Design (3)
- ET 470 Energy Mgmt – Indus Processes (3)
- FM 504 Facilities Management (3)
- FM 544 Sust Const Matls & Tech (3)
- FM 554 Facilities Operation & Supervision (3)
- FM 564 Sustainable Facl Plan & Design (3)
- FM 565 Building Energy Management (3)
- IM 455 Sustainable & Green Mfg (3)
- MA 139 Applied Calculus (3)
- UI 360 Recycling & Waste Management (3)
- UI 387 Env Law & Public Policy (3)

**TELECOMMUNICATIONS & COMPUTER**

**NETWORKING (42 Hours)**

- ET 160 Basic Electricity & Electronics (3)
- ET 245 Logic Circuits (3)
- IM 317 Cooperative Industrial Internship (3)

**OR**

- CY 201 Intro to Cybersecurity (3)
- MA 139 Applied Calculus (3)
- TN 254 Fiber Optics & Network Comm (3)
- TN 255 Microcomputer Maint & Troubleshooting (3)
- TN 275 Network Fundamentals (3)
- TN 375 Network Routing Protocol & Concepts (3)
- TN 395 Server Maint & Troubleshooting (3)
- TN 425 Wireless Comm & Mobile Data Netwk (3)
- TN 435 Network Security (3)
- TN 563 LAN Switching (3)
- TN 565 Network Management (3)
- TN 566 IP Telephony (3)

**TECHNOLOGY MANAGEMENT (up to 34 Hours)**

The Technology Management option is specifically designed for students who have earned technically-oriented accredited Associate of Applied Science (A.A.S) degrees "OR for those with national certifications or exams and two years of directly related work experience." Students are awarded up to 34 credit hours towards the Technology Management major with the Technology Management option. To complete the BS Degree, students must complete the University Studies requirements and the Technology Management core courses. In addition, with the help of an advisor, students are required to take MA139 (Applied Calculus) and will select 21 credit hours of upper-level technical electives to build upon the skills gained through the AAS degree or background. This option is available on the Cape Girardeau campus and online.

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE**

For students planning careers in business. See Admission to Business Administration Programs criteria under Admissions, page 11. The areas from which majors must be chosen are:

- Accounting
- Business Administration
- Economics
  - Options: Business Economics
  - Financial Economics
- Finance
- International Business

Management

- Options: Entrepreneurship
- Human Resource Management
- Management

Marketing

- Options: Integrated Marketing
- Communications
- Marketing Management
- Sales Management

Normally, 50 percent of an individual's business degree program (60 hours) must be comprised of non-business courses.

Fifty percent of the business hours counted toward a business degree must be taken at Southeast Missouri State University.

**BUSINESS ADMINISTRATION CORE**

Business students must be admitted to the College of Business prior to enrolling in upper division (300 level or above) business courses.

**33 Hours Required**

*(A grade of 'C' is required in each core course.)*

**Required Courses:**

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- BA 490 Business Policy & Strategy (3)
- BL 255 Legal Environment of Business (3)
- FI 361 Financial Management (3)
- MG 301 Principles of Management (3)
- MI 375 Management Information Systems (3)
- MK 301 Principles of Marketing (3)
- QM 352 Management Science (3)
- QM 358 Production/Operations Management (3)

**Choose 3 Hours From:\***

- AC 540 International Perspectives of Accounting (3)
- BA 560 International Business Study Tour (3)
- EC 580 International Economics (3)
- FI 540 International Finance (3)
- MG 560 International Management (3)
- MK 560 International Marketing (3)

*\* International Course taken to meet Business Administration Core requirement may not be counted on a major.*

**Support Courses**

**30 Hours Required**

*(Some courses may fulfill University Studies requirements. A grade of 'C' or better is required in each support course.)*

- AD 101 Intro to Microcomputer Applications (3)
- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)

- EN 140 Rhetoric & Critical Thinking (3)
- MA 134 College Algebra (3)
- MG 252 Business Communication (3)
- QM 257 Business Statistics (3)
- QM 258 Business Statistics II (3)
- SC 105 Fundamentals of Oral Communication (3)
- UI 400 Business & Ethics (3)

**NOTE:** All 100 and 200 level core and support courses are prerequisite to all 300 level business core and business major courses.

## ACCOUNTING

### 27 Hour Major - No Minor Required

#### Required Courses:\*

- AC 321 Financial Acct & Reporting I (3)
- AC 332 Financial Acct & Reporting II (3)
- AC 435 Taxation of Individuals (3)
- AC 437 Auditing & Assurance Services (3)

#### Choose 15 Hours From:

- AC 330 Accounting Information Systems (3)
- AC 331 Cost Accounting & Analysis (3)
- AC 534 Fin Acct & Reporting III (3)
- AC 537 Adv Audit & Assurance Svcs (3)
- AC 545 Tax of Bus Entities (3)
- AC 548 Govt & Not-For-Profit Acct (3)
- AC/BL 563 Legal/Ethical Issues of Acct (3)
- AC 573 Internship in Accounting (3)

**\*NOTE:** Accounting majors must select AC 540 to satisfy the Business Administration core requirement for an international course unless participating in an approved study abroad course or with permission of the department chairperson.

## BUSINESS ADMINISTRATION

### 24 Hour Major - No Minor Required

#### Required Courses:

#### AC/BA/BL/EC/FI/MG/MI/MK/QM 300-599 level (24)\*

*\*Choose a minimum of 4 disciplines with no more than 9 hours in one discipline (represented by subject prefix).*

*\*Core and support courses for BSBA degree will not count here.*

*\*No more than 6 hours can double count in this major and a minor in the Harrison College of Business.*

*\*No more than 9 hours may double count between this major and a second Business major.*

## ECONOMICS

### 25 Hour Major - No Minor Required

#### Choose One 25 Hour Option:

#### BUSINESS ECONOMICS

- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- EC 498 Economics Seminar (1)
- EC 561 Managerial Economics (3)

#### Choose 6 Hours From:

- EC 351 Applied Economic Models (3)
- EC 380 Labor Economics (3)
- EC 490 Business & Econ Forecasting (3)
- UI 371 Government & Business (3)

#### Choose 9 Hours From:

- EC xxx EC course, (235-500 level)
- UI 349 Comparative Economic Systems (3)
- UI 366 Law and Economics (3)

#### FINANCIAL ECONOMICS

- EC 335 Monetary Economics (3)
- EC 410 Macroeconomic Theory (3)
- EC 420 Microeconomic Theory (3)
- FI 364 Modern Financial Institutions (3)
- EC 498 Economics Seminar (1)

#### Choose 6 Hours From:

- EC 351 Applied Economic Models (3)
- EC 470 Public Sector Economics (3)
- EC 580 International Economics (3)
- FI 368 Investments (3)

#### Choose 6 Hours From:

- EC xxx EC course (235-500 level)
- UI 322 International Political Economy (3)
- UI 349 Comparative Economic Systems (3)
- UI 366 Law & Economics (3)
- UI 371 Government & Business (3)

**NOTE:** No more than 6 hours of UI courses may be selected.

## FINANCE

### 24 Hour Major - No Minor Required

#### Required Courses:

- FI 362 Advanced Financial Management (3)
- FI 364 Modern Financial Institutions (3)
- FI 368 Investments (3)
- FI 480 Financial Policy (3)

#### Choose 12 Hours From:

- FI 351 Principles of Insurance (3)
- FI 363 Entrepreneurial Finance (3)
- FI 365 Real Estate Principles & Practices (3)
- FI 473 Internship in Finance (3)
- FI 475 Futures Seminar (3)

- FI 493 Independent Study in Finance (1-3)  
FI 540 International Finance (3)  
FI 568 Portfolio Seminar (3)

**Three of the above twelve hours may be from the following:**

- AC 321 Financial Acctg & Reporting I (3)  
AC 375 Financial Statement Analysis (3)  
EC 335 Money & Banking (3)  
EC 351 Applied Economic Models (3)  
EC 410 Macroeconomic Theory (3)

## **INTERNATIONAL BUSINESS**

### **18 Hour Major**

#### **INTERNATIONAL CORE COURSES:**

##### **Choose 9 Hours From:**

- AC 540\* International Accounting (3)  
BA 458 International Business Internship (3)  
BA 560\* International Business (3)  
EC 580\* International Economics (3)  
FI 540\* International Finance (3)  
MG 560\* International Management (3)  
MK 560\* International Marketing (3)

Required minor to be selected in any department in the Harrison College of Business (except "Business Administration" minor) or select a second major from the Harrison College of Business.

#### **FOREIGN LANGUAGE/ CULTURAL SUPPORT**

3 credit hours of University foreign language/culture instruction or equivalent (e.g., 2 years of high school language with a grade of 'C' or better) and a term of study abroad of at least 8 weeks

#### **OR**

12 credit hours of foreign language/culture instruction and an international immersion program less than 8 weeks in length

*\*If chosen for the IB major, cannot be used to fulfill International Business requirement for the BSBA core.*

## **MANAGEMENT**

### **24 Hour Major - No Minor Required**

*(Cannot double count elective choices in more than one option.)*

#### **Required Management Core Courses:**

- BA 361 Princ of Entrepreneurship (3)  
MG 356 Found of Human Resource Mgmt (3)  
MG 470 Leadership in Management (3)

#### **Real World Experience – Choose one option:**

Participate in departmentally approved international academic program (3)

#### **OR**

Complete departmentally approved internship (3)

### **Choose One 12 Hour Option:**

#### **ENTREPRENEURSHIP**

##### **Required Courses**

- BA 531 Imag, Creat & Innovation (3)  
BA 551 Manag & Grow New Ventures (3)  
BA 561 Bus Planning for New Ventures (3)

##### **Select 3 hours from the following:**

- FI 363 Entrepreneurial Finance (3)  
MG 354 Bus Negotiation: Conc/Pract (3)  
MG 456 Topics in Hum Res Mgmt (3)  
MG 462 Orgnz Theory & Design (3)  
MG 550 Improv Team Performance (3)  
MK 345 Intro to Bus Research (3)  
MK 555 Internet Marketing (3)

#### **HUMAN RESOURCE MANAGEMENT**

##### **Required Courses:**

- MG 526 Manag & Dev New Talent (3)  
MG 546 Acquiring & Compensating Talent (3)  
MG 566 Legal & Union Issues in HR (3)

##### **Choose 3 Hours From the Following:**

- BA 531 Imag, Creat & Innovation (3)  
EC 380 Labor Economics (3)  
MG 354 Bus Negotiation: Conc/Practice (3)  
MG 456 Topics in Human Resource Mgmt (3)  
MG 462 Orgnz Theory & Design (3)  
MG 550 Improv Team Performance (3)  
MK 341 Public Relations (3)

#### **MANAGEMENT**

##### **Required Courses:**

- MG 354 Bus Negotiation: Conc/Practice (3)  
MG 462 Org Theory & Design (3)  
MG 550 Improv Team Performance (3)

##### **Choose 3 hours from the following:**

- BA 531 Imag, Creat & Innovation (3)  
BA 561 Bus Planning for New Ventures (3)  
IM 411 Total Quality Assurance (3)  
MG 457 Organizational Behavior (3)  
MG 526 Manag & Dev New Talent (3)  
MG 560 International Management (3)\*  
MK 349 Retail Management (3)  
MK 447 Sales Management (3)

*\*If selected as elective, cannot also count for international course requirement for the BSBA degree.*

## **MARKETING**

### **24 Hour Major - No Minor Required**

#### **Required Marketing Core:**

- MK 343 Advertising & Promotion (3)  
MK 344 Consumer Behavior (3)  
MK 345 Intro to Business Research (3)  
MK 449 Marketing Management (3)



**Choose 3 Hours MK Courses (300-500 level except MK 301), MG 560\*, MK 560\*, BA 361 or BA560\* Real World Experience – Choose one option:**

Participate in departmentally approved international academic program

**OR**

Complete departmentally approved internship

**Choose One Option:**

**INTEGRATED MARKETING COMMUNICATIONS**

MK 342 Professional Selling (3)

MK 443 Integrated Mktg Comm Pract (3)

**Choose 3 Hours:**

MK 341 Public Relations (3)

MK 555 Internet Marketing (3)

**MARKETING MANAGEMENT**

MK 348 Product & Pricing Strategy (3)

**Choose 3 Hours MK Courses (300-500 level, except MK 301).** If MK 560 is selected here it cannot be used for the international course requirement for the BSBA nor the elective in the Marketing core.

**Choose 3 Hours:**

MK 346 Distribution Management (3)

MK 349 Retail Management (3)

**SALES MANAGEMENT**

MK 342 Professional Selling (3)

MK 447 Sales Management (3)

**Choose 3 Hours:**

MG 354 Bus Negotiation: Conc/Practice (3)

MG 470 Leadership in Management (3)

MG 550 Improving Team Performance (3)

*\*If selected as elective, cannot also count for international course requirement for the BSBA degree.*

**BACHELOR OF SCIENCE IN EDUCATION DEGREE**

For students planning to teach in early childhood, elementary, middle and secondary schools. Five programs are offered:

Early Childhood Education (birth-grade 3)

Elementary Education (grades 1-6)

Exceptional Child Education (grades K-12)

Middle School Education (grades 5-9)

Secondary Education (grades 9-12)

All majors in education must meet requirements for admission to Teacher Education as determined by the implementation of the MoSPE Standards which took effect in March 2013. Regardless of printed program requirements, any changes or additions mandated by the State of Missouri will become effective on the date cited by the regulations.

Students transferring into education programs must complete three semester hours of English Composition with grades of 'C' or better to meet certification requirements.

All teacher education candidates will submit an FBI background check during the first field experience in teacher education. This check will then provide the COE updated rapbacks should teacher candidates have a future event that is coded in to the FBI background check system.

**EARLY CHILDHOOD EDUCATION**

Students in Early Childhood (birth through third or birth through sixth) desiring to be admitted to and retained in the College of Education may not add a minor or specialization to this major without approval from the College of Education. Other minors which may extend one's graduation date or affect scholarship or financial assistance must be approved by the College of Education since unapproved minors do not extend one's certification. (Students in early childhood adding on elementary grades 1-6 do not need special approval.)

**Professional Education Requirements: 63 Hours** (A minimum grade of "C" is required in each professional education course.)

**BLOCK I: 5 Hours**

ED 250 Intro to Teaching (2)

PY/CF 120 The Child: Devel/Conception to Adolsc (3)

**BLOCK II: 17 Hours**

CE 340 Family/School Collaboration (3)

EF 304 School & Society (2)

EL 313 Children & the Arts (2)

EL 314 Elementary Field Experience (3)

EL 315 Theories of Learning & Management (2)

EL 316 Foundations of Reading Techniques (3)

EL 317 Foundations of Lang Arts Techniques (2)

**EARLY CHILDHOOD BLOCK: 15 Hours**

CE 330 Classroom Management (3)

CE 365 Connctg Assmt & Curric in Early Yrs (2)

CE 366 Devel Curric in Early Chldhd Educ (4)

CE 368 Early Childhood Field Experience (3)

CE 370 Lang Dvlpmnt of Young Child (3)

**BLOCK III: 14 Hours**

EL 350 Elementary Field Experience (3)

EL 351 Tech of Teaching Elem Science (2)

EL 352 Tech of Teaching Elem Social Studies (1)

EL 353 Tech of Teaching Elem Mathematics (2)

EL 354 Corrective Reading Instruction (3)

EX 390 Psych & Educ of the Except Child (3)

**BLOCK IV: 13 Hours**

- CE 499 Portfolio Review (0)
- CE 433 Student Tchng Early Childhood (1st) (6)
- CE 434 Student Tchng Early Childhood (2nd) (6)
- EF 400 Student Teaching Seminar (1)

**Additional Early Childhood Requirements: 16 Hours**

- BS 118 Intro Process Science Elem Teachers (1)
- CF 124 Child Health, Safety & Nutrition (3)
- CF 280 Learn Theory/Appl: Preschool (3)
- CF 285 Learn Theory/Appl: Infants & Toddlers (3)
- ED 251 Intro to Technology (2)
- MU 356 Music Skills/Classroom Teacher (1)

**Additional Requirements: 33 Hours**

*(Some courses may fulfill University Studies requirements)*

- BS 218 Biological Science: A Process Apprch (3)
- EC 101 Economic Problems & Policies (3)

**OR**

- EC 215 Principles of Microeconomics (3)

**OR**

- AG 201 World Food & Society (3)
- EL 274 Diversity in America's Schools (3)
- EN 140 Rhetoric & Critical Thinking (3)
- LI 243 Children's Literature (3)
- MA 118 Mathematics I (3)
- PH 218 Physical Science: A Process Approach (3)
- PS 103 U.S. Political Systems (3)
- SC 105 Fundamentals of Oral Communication (3)
- UI 318 Earth Science: A Process Approach (3)
- US 105 American History I (3)

**OR**

- US 107 American History II (3)

**ELEMENTARY EDUCATION**

Only approved areas of specializations as listed below will allow students to be admitted to and retained in the College of Education. Other minors which may extend one's graduation date or risk loss of scholarship or financial assistance must be approved by the College of Education since such minors do not extend one's certification.

In addition to other requirements, an Area of Specialization must be chosen from:

- Art Physical Education
- Foreign Languages Science
- Language & Literature Social Science
- Mathematics TESOL
- Music

**Professional Education Requirements: 47 Hours**

*(A minimum grade of "C" is required in each professional education course.)*

**BLOCK I: 5 Hours**

- ED 250 Intro to Teaching (2)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)

**BLOCK II: 14 Hours**

- EF 304 School & Society (2)
- EL 313 Children & the Arts (2)
- EL 314 Elementary Field Experience (3)
- EL 315 Theories of Learning & Management (2)
- EL 316 Foundations of Reading Techniques (3)
- EL 317 Foundations of Lang Arts Techniques (2)

**BLOCK III: 16 Hours**

- EL 350 Elementary Field Experience (3)
- EL 351 Tech of Teaching Elem Science (2)
- EL 352 Tech of Teaching Elem Social Studies (1)
- EL 353 Tech of Teaching Elem Mathematics (2)
- EL 354 Corrective Reading Instruction (3)
- EL 355 Reading: Study Strategies & Skills (2)
- EX 390 Psych & Educ of the Except Child (3)

**BLOCK IV: 14 Hours**

- EF 400 Student Teaching Seminar (1)
- EL 499 Portfolio Review (0)
- EL 453 Student Teaching Elementary (1st) (6)
- EL 454 Student Teaching Elementary (2nd) (6)

**Additional Elementary Requirements: 15 Hours**

- BS 118 Intro Process Science Elem Teachers (1)
- ED 251 Intro to Technology (2)
- EL 274 Diversity in America's Schools (3)
- HL 210 Health & Safety (2)
- MA 318 Math for Elementary Teachers II (3)
- MA 418 Geometry for Teachers (3)
- MU 356 Music Skills/Classroom Teacher (1)

**Additional Requirements: 33 Hours**

*(These courses may also meet University Studies requirements)*

- BS 218 Biological Science: A Process Apprch (3)
- EC 101 Economic Problems & Policies (3)
- EN 140 Rhetoric & Critical Thinking (3)
- LI 243 Children's Literature (3)
- MA 118 Mathematics I (3)
- PH 218 Physical Science: A Process Approach (3)
- PS 103 U.S. Political Systems (3)
- SC 105 Fundamentals of Oral Communication (3)
- UI 308 Physical/Cultural Landscapes of the World (3)
- UI 318 Earth Science: A Process Approach (3)
- US 105 American History I (3)

**OR**

- US 107 American History II (3)

## EXCEPTIONAL CHILD EDUCATION WITH ELEMENTARY CERTIFICATION

Students in this major must have a declared major in Exceptional Child with Elementary Certification in order to be admitted to and retained in the College of Education. Minors which may extend one's graduation date or affect scholarship or financial assistance must be approved by the College of Education since unapproved ones do not extend one's certification.

### Professional Education Requirements: 66 Hours

(A minimum grade of "C" is required in each professional education course.)

#### BLOCK I: 5 Hours

CF/PY 120 The Child (3)  
ED 250 Intro to Teaching (2)

#### BLOCK II: 16 Hours

EF 304 School & Society (2)  
EX 302 Language Devel of the Except Child (2)  
EL 313 Children & the Arts (2)  
EL 314 Elementary Field Experience (3)  
EL 315 Theories of Learning & Management (2)  
EL 316 Foundations of Reading Techniques (3)  
EL 317 Foundations of Lang Arts Techniques (2)

#### Exceptional Child Block: 18 Hours

EX 304 Behavior Management (3)  
EX 305 Teach Adolsec with Mild Disabilities (3)  
EX 309 Except Child Educ Field Experience (3)  
EX 312 Diag & Remed of L D in Math (3)  
EX 317 Assmt & Tech of Teaching Except Child (3)  
EX 373 Techniques of Cross Categorical (3)

#### BLOCK III: 16 Hours

EL 350 Elementary Field Experience (3)  
EL 351 Tech of Teaching Elem Science (2)  
EL 352 Tech of Teaching Elem Social Studies (1)  
EL 353 Tech of Teaching Elem Mathematics (2)  
EL 354 Corrective Reading Instruction (3)  
EL 355 Reading Study Strategies & Skills (2)  
EX 307 Parents & the Exception Child (3)

#### BLOCK IV: 15 Hours

EF 400 Student Teaching Seminar (1)  
EL 455 Student Teaching Elem (8)  
EX 471 Student Teaching CC (6)  
EX 499 Portfolio Review (0)

### Additional Exceptional Child Requirement: 15 Hours

EX 311 Intro to the Exceptional Child (3)  
EX 318 Intro to Cross Categorical (3)  
BS 118 Intro Process Science Elem Teachers (1)  
ED 251 Intro to Technology (2)  
EL 274 Diversity in America's Schools (3)  
HL 210 Health & Safety (2)

MU 356 Music Skills/Classroom Teacher (1)

### Additional Requirements: 39 Hours

(Some courses may also meet University Studies requirements)

BS 218 Biological Science: A Process Apprch (3)  
EC 101 Economic Problems and Policies (3)  
EN 140 Rhetoric & Critical Thinking (3)  
LI 243 Children's Literature (3)  
MA 118 Mathematics I (3)  
MA 318 Mathematics II (3)  
MA 418 Geometry for Teachers (3)  
PH 218 Physical Science: A Process Approach (3)  
PS 103 U.S. Political Systems (3)  
SC 105 Fundamentals of Oral Communication (3)  
UI 308 Physical & Cultural Landscapes (3)  
UI 318 Earth Science: A Process Approach (3)  
US 105 American History I (3)

#### OR

US 107 American History II (3)

## MIDDLE AND SECONDARY EDUCATION MIDDLE SCHOOL EDUCATION: Grades 5-9

### Middle School Professional Education Requirements: 43 Hours

Middle Level students must choose two subject area concentrations and take the following professional education courses:

(A minimum grade of "C" is required in each professional education course.)

#### BLOCK I:

ED 250 Intro to Teaching (2)  
ED 251 Intro to Technology (2)  
PY 222 Development of the Adolescent (3)

#### BLOCK II: 17 Hours

EF 304 School & Society (2)  
SE 275 Diversity in America's Schools (3)  
SE 301 Fundamentals of Middle School Education (3)  
SE 302 Teaching Reading & Writing in Mid School (3)  
SE 305 Secondary Block II Field Experience (2)  
SE 306 Theories of Learning & Management (2)  
SE 307 Teaching Reading/Secondary School (2)

#### BLOCK III: 13 Hours

EX 390 Psychology & Educ of Except Child (3)  
SE 300 Technology to Enhance Learning (2)  
SE3xx Special Subject Techniques Course (3)\*  
SE3xx Special Subject Techniques Course (3)\*  
SE 371 Middle Block III Field Experience – Language Arts (1)\*  
SE 372 Middle Block III Field Experience – Math (1)\*

- SE 373 Middle Block III Field Experience – Science (1)\*  
SE 374 Middle Block III Field Experience – Social Studies (1)\*

**BLOCK IV: 13 Hours**

- EF 400 Seminar/Educ Issues for Student Teachers (1)  
SE 463 Student Teaching Secondary (1st) (6)  
SE 464 Student Teaching Secondary (2nd) (6)

**Middle School Education - Choose One Option:**

**OPTION I:** Middle School Majors must choose two areas of concentration (total of 42-43 Hours) (See advisor for specific courses required in each option.)

- Language Arts (21)
- Mathematics (21)
- Science (23)
- Social Studies (21)

**OPTION II:** Secondary Education majoring in Language Arts, Mathematics, Science, or Social Studies can add a Middle School certification in the same content area.

*\*Middle level majors must choose two areas of concentration, which require two Techniques of Teaching courses and each Techniques course requires its own specialty SE37X Middle Block III Field Experience for a total of 2 hours of Block III field experience. Middle level majors must also complete all content requirements as needed.*

**SECONDARY EDUCATION**

Secondary level majors must choose from the following majors:

Agricultural Education	Mathematics Education
Art Education (K-12)	Music Education (K-12)
Biology Education	Physical Education (K-12)
Business Education	Physics Education
Chemistry Education	Social Studies Education
Engineering Technology Education	Spanish Education (K-12)
English Education	Unified Science: Biology
Family & Consumer Sciences (Birth-12)	Unified Science: Chemistry
French Education (K-12)	Unified Science: Physics
German Education (K-12)	

Certification programs are available in Speech and Language Specialist (K-12), and Teaching English as a Second Language (K-12; graduate program)..

A minimum grade of “C” is required in each professional education course. A minimum cumulative 2.5 GPA is required as well as a 2.5 in the content area. Some content areas may require a higher GPA; please see content GPA requirements.

**Secondary Professional Education Requirements: 37 Hours**

**BLOCK I:**

- ED 250 Intro to Teaching (2)  
ED 251 Intro to Technology (2)  
PY 222 Development of the Adolescent (3)\*

**BLOCK II: 14 Hours**

- EF 304 School & Society (2)  
SE 305 Secondary Block II Field Experience (2)  
SE 306 Theories of Learning & Management (2)  
SE 307 Teaching Reading/Secondary School (2)  
SE 308 Fund of High School Education (3)  
SE 275 Diversity in America’s Schools (3)

**BLOCK III: 10 Hours**

- EX 390 Psychology & Educ of Except Child (3)  
SE 300 Technology to Enhance Learning (2)  
SE xxx Special Subject Techniques Course (3)  
SE 370 Secondary Block III Field Experience (2)

**BLOCK IV: 13 Hours**

- EF 400 Seminar/Educ Issues for Student Teachers (1)  
SE 463 Student Teaching Secondary (1st) (6)  
SE 464 Student Teaching Secondary (2nd) (6)

**Additional Requirements – Middle School & Secondary Education: 12-18 hours**

*(\*These courses may meet University Studies requirements and must be completed with a minimum grade of “C”)*

- EN 140 Rhetoric & Critical Thinking (3)  
SC 105 Fundamentals of Oral Communication (3)  
Any BI/BS course in Living Systems (3)  
US 105 American History I (3)

**OR**

- US 107 American History II (3)  
PS 103 US Political Systems (3)  
SE 275 Diversity in America’s Schools (3)  
Any CH, PH, GO course

**OR**

- UI 373 Historical Geology (3-5)

**Secondary Level students only must also take:**

- MA 123 Survey of Mathematics (3)

**OR**

- MA 134 College Algebra (3)

**OR**

- MA 155 Statistical Reasoning (3)

**Middle Level students only must also take:**

- MA 118 Mathematics I (3)  
MA 318 Mathematics II (3)

## AGRICULTURAL EDUCATION

### 40 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- AD 101 Intro to Microcomputer Appl (3)
- AG 201 World Food & Society (3)
- AG 245 Agricultural Economics (3)
- AG 250 Agribusiness Management (3)
- AG 302 Agr Educ Planning (3)
- AG 303 Agricultural Mechanization (3)
- AG 334 Agribusiness Finance (3)
- AG 355 Agricultural Seminar (1)
- AG 447 Marketing Agric Products (3)
- AO 120 Plant Science (3)
- AO 215 Soils (3)
- AY 101 Animal Science (3)
- HO 110 Intro to Horticulture (3)
- UI 436 Agricultural Ethics (3)

#### Additional Requirements:

- CH 181 Basic Prin of Chem (5)

#### OR

- CH 185 General Chemistry (5)
- MA 134 College Algebra (3)

## ART EDUCATION

### 48 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AH 3xx-5xx Art History (6)
- AR 001 Freshman Core Review (0)
- AR 100 Drawing I (3)
- AR 104 Design Foundations (3)
- AR 106 3D Foundations (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II (3)
- AR 270 Art for the Elementary Teacher (3)
- AR 330 Fibers I (3)
- AR 332 Sculpture I (3)
- AR 342 Ceramics I (3)

#### Choose 3 Hours From:

- AR 320 Watermedia I (3)
- AR 325 Painting (3)

#### Choose 3 Hours From:

- AR 302 Printmaking (3)
- AR 303 Screenprinting (3)

- AR 501 Intaglio Printmaking (3)

- AR 502 Litho Printmaking (3)

### Choose 3-9 Hours Upper Division Art Electives

Two pieces of artwork must be entered in the juried student assessment exhibition each year.

## BIOLOGY EDUCATION

### 52-70 Hour Major - No Minor Required

#### Required Courses:

- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics and Cell Biology (4)
- BI 200 General Microbiology (3)
- BI 489 Analysis of Biological Issues (2)
- MA 133 Plane Trigonometry (3)
- MA 134 College Algebra (3)
- UI 422 Scientific Reasoning (3)

### 6 hours Biology electives – BI/BO/ZO 300 level or higher

#### Choose One Option:

#### BIOLOGY EDUCATION OPTION:

- BS105 Environmental Biology (3)

#### OR

- BI 332 General Ecology (3)
- BS 113 Anatomy & Physiology I (4)

#### AND

- BS 114 Anatomy & Physiology II (4)

#### OR

6 hours Biology electives – BI/BO/ZO 300 level or higher\*

- PH 106 Physical Concepts (3)

#### OR

- PH 120 Intro Physics I (5)

#### AND

- PH 121 Intro Physics II (5)
- CH 181 Basic Prin of Chemistry (5)

#### OR

- CH 185 General Chemistry (5)

#### AND

- CH 186 Found of Inorganic Chem (3)

#### Choose one of the following:

- GO 110 Physical Geology (3)
- GO 220 Meteorology (3)
- GO 320 Oceanography (3)
- UI 318 Earth Science: Proc Approach (3)

#### UNIFIED SCIENCE OPTION:

- BI 332 General Ecology (3)
- BS 113 Anatomy & Physiology I (4)
- BS 114 Anatomy & Physiology II (4)
- CH 185 General Chemistry (5)

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- CH 186 Found of Inorganic Chem (3)
- GO 110 Physical Geology (3)
- GO 220 Meteorology (3)
- GO 320 Oceanography (3)
- PH 120 Intro Physics I (5)
- PH 121 Intro Physics II (5)

*\*One course must be BO or ZO prefix if BS 113/BS 114 are not chosen*

## BUSINESS EDUCATION

### 36-39 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

- AC 221 Principles of Accounting I (3)
- AD 101 Intro to Microcomputer Appl (3)
- AD 337 Admin Systems Mgmt Internship (3)\*
- AD 527 Implementing Busn Educ (3)
- BL 255 Legal Environment of Business (3)
- FI 260 Personal Finance (3)
- GM 180 Intro to Graphics (3)
- IS 175 Comp Info Systems (3)

#### OR

- MI 375 Mgmt Info Systems (3)
- IS 275 Comp Info Systems II (3)
- IS 339 Network Support Syst (3)
- MG 252 Business Communication (3)
- MG 301 Principles of Management (3)
- MK 301 Principles of Marketing (3)

Keyboarding proficiency exam (0)

*\*May be waived if evidenced by 2000 hours office work experience*

## CHEMISTRY EDUCATION

### 60-76 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- CH 185 General Chemistry (5)
- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Found of Analy Chem (5)
- CH 311 Found of Phys Chem (4)
- CH 313 Physical Chem Lab (3)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chemistry Lab I (1)
- PH 120 Introductory Physics I (5)

#### AND

- PH 121 Introductory Physics II (5)

#### OR

- PH 230 General Physics I (5)

#### AND

- PH 231 General Physics II (5)
- UI 331 Found of Biochemistry (3)
- UI 422 Scientific Reasoning (3)
- UI 443 Professional Exp in Chemistry (3)

#### Choose 3 Hours From:

- BS 108 Biology for Living (3)
- BS 218 Bio Science: A Process Approach (3)

#### Additional Requirements: 6 Hours

- MA 134 College Algebra (3)
- MA 139 Applied Calculus (3)

#### Choose one option:

#### CHEMISTRY EDUCATION OPTION:

##### Choose one of the following:

- GO 110 Physical Geology (3)
- GO 220 Meteorology (3)
- GO 320 Oceanography (3)
- UI 318 Earth Science: Process Approach (3)

##### Choose one of the following:

- BI 332 General Ecology (3)
- BS 105 Environmental Biology (3)
- CH 450/EV 450 Environmental Chem (3)
- GO 150 Earth Science: Environ Hazards (3)
- GO 305 Environmental Geoscience (3)
- UI 360 Recycling & Waste Management (3)
- UI 372 Earthquakes & Society (3)

#### UNIFIED SCIENCE OPTION:

- BO 200 Plant Biology (4)
- CH 450/EV 450 Environmental Chem (3)
- GO 110 Physical Geology (3)
- GO 220 Meteorology (3)
- GO 320 Oceanography (3)
- MA 133 Plane Trigonometry (3)
- ZO 200 Animal Biology (3)

## ENGINEERING TECHNOLOGY EDUCATION

### 36 Hour Major - No Minor Required

**15 hours of the major need to be 300-500 level courses**

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- AG 303 Agricultural Mech (3)
- CM 126 Comp Aided Arch/Draft (3)
- CM 243 Construction Methods & Mats (3)
- ET 160 Basic Electricity & Electronics (3)
- IE 401 Technology Education Mgt (3)
- MN 120 Fund of Engr Design Processes (3)
- MN 170 Engr Materials & Testing (3)
- MN 203 Industrial Materials & Process I (3)

- PG 284 Photography Fundamentals (3)  
**Choose 9 Hours From:**  
 CM 226 Resid Arch Drft & Design (3)  
 CM 310 Construction Codes & Compliance (3)  
 CM 320 Construction Cost Estimating (3)  
 ET 245 Logic Circuits (3)  
 GM 180 Intro to Tech Graphics (3)  
 GM 200 Vector & Bitmapped Graphics for Ind (3)  
 IE 192 Select/Org of Subj Matter (3)  
 IE 193 Prin of Indus Tech Teaching (3)  
 IE 196 Found of Career & Tech Educ (3)  
 IE 197 Coord of Cooperative Educ (3)  
 IE 590 Assess in Career & Tech Educ (3)  
 MN 221 Solid Modeling & Rapid Prototyping (3)  
 MN 304 Industrial Materials & Processes II (3)  
 MN 324 Mechanical Design Processes (3)  
 MN 350 Machine Design (3)  
 MN 354 Computer Aided Manuf (3)  
 TN 255 Micro Maintenance & Troubleshooting (3)  
 TN 275 Network Fundamentals (3)  
 TN 375 Network Routing Protocols & Concepts (3)

## ENGLISH EDUCATION

### 36 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- EN 201 Writing About Literature (3)  
 EN 378 Grammars of English (3)  
 EN 379 Composition in the Secondary School (3)  
 LI 260 English Lit I (3)

#### OR

- LI 261 English Lit II (3)  
 LI 270 American Lit I (3)

#### OR

- LI 271 American Lit II (3)  
 LI 311 World Literature I (3)

#### OR

- LI 312 World Literature II (3)  
 LI 385 Literature in the Secondary School (3)  
 LI 542 Literature for Young Adults (3)

#### Language Elective (Choose 3 hours):

- EN 486 Sociolinguistics (3)  
 UI 500 History of English Language (3)  
 UI 501 Principles of Language (3)

#### Writing Elective (Choose 3 hours):

- EN 275 Intro to Creative Writing (3)  
 EN 376 Advanced Composition (3)

#### Upper Division Electives (Choose 6 hours):

- EN 300-EN 599 English elective  
 LI 300-LI 599 Literature elective

- UI 332 Images of Women in Literature (3)  
 UI 341 Victorian Studies (3)  
 UI 431 Shakespeare Trag & Hum Cond (3)  
 UI 432 Shakespeare Hist/Com & Hum Cond (3)

#### Additional Requirement:

- LI 256 Variety of Literature (3)

## FRENCH EDUCATION

### 36 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- FR 001 French Exit Exam (0)  
 FR 100 French Language & Culture I (3)  
 FR 120 French Language & Culture II (3)  
 FR 200 French Language & Culture III (3)  
 FR 220 French Literature (3)  
 FR 306 Contemporary France (3)  
 FR 320 French Pronunciation & Phonetics (3)

#### Choose 6 Hours From:

- FL 311 Survey of FR, GN & SN Lit (3)  
 FR 311 Survey of French Literature II (3)  
 FR 415 17th Century French Literature (3)  
 FR 430 20th Century French Literature (3)

#### Choose 6 Hours From:

- FR 301 Intermediate French Composition (3)  
 FR 305 Intermediate French Conversation (3)  
 FR 315 Commercial French (3)  
 FR 330 French Grammar (3)

#### Choose 6 Hours FL/FR Electives (300-500 level)

#### Additional Requirement:

#### Choose 3 Hours From:

- EH 103 European Civilization (3)  
 EH 366 Age of French Rev & Napoleon (3)  
 EH 370 Europe in the 20th Century (3)  
 EH 514 History of Modern France (3)  
 FL 205 Art of French Cinema (3)  
 GG 170 European Peoples & Civilization (3)  
 UI 362 Contemporary French Culture (3)  
 UI 375 European Film (3)

## GERMAN EDUCATION

### 36 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

- GN 001 German Exit Exam (0)  
 GN 100 German Language & Culture I (3)  
 GN 120 German Language & Culture II (3)  
 GN 200 German Language & Culture III (3)  
 GN 220 German Literature (3)

GN 320 German Culture & Civilization (3)

**Choose 6 Hours From:**

FL 311 Survey of FR, GN & SN Lit (3)  
 GN 310 Survey of German Literature I (3)  
 GN 311 Survey of German Literature II (3)  
 GN 424 Twentieth-Century German Literature (3)  
 GN 440 Special Topics: German (3)

**Choose 6 Hours From:**

GN 301 Intermediate German Composition (3)  
 GN 305 Conversational German (3)  
 GN 315 Commercial German (3)  
 GN 330 German Grammar (3)  
 GN 340 German Phonetics & Pronunciation (3)

**Choose 9 Hours of FL/GN Electives (300-500 level)**

**Additional Requirement:**

**Choose 3 Hours From:**

AN 101 Observing Other Cultures (3)  
 AN 181 Intro to Cultural Anthropology (3)  
 AN 341 Intro to Linguistic Anthropology (3)  
 AN 390 European Prehistory (3)  
 EH 103 European Civilization (3)  
 EH 370 Europe in the 20th Century (3)  
 EH 516 History of Modern Germany (3)  
 EH 527 Intellectual History of Europe (3)  
 GG 170 European Peoples & Civilization (3)  
 UI 375 European Film (3)

**MATHEMATICS EDUCATION**

**43-44 Hour Major - No Minor Required**

*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**

MA 003 Math Major Field Achvmt Test (0)  
 CS 155 Computer Science I (4)

**OR**

CS 177 Program for Scientist & Eng (3)

**OR**

IS 130 Visual Basic (3)  
 MA 138 Discrete Mathematics I (3)  
 MA 140 Analytic Geometry & Calculus I (5)  
 MA 145 Analytic Geometry & Calculus II (4)  
 MA 223 Elem Probability & Statistics (3)

**OR**

MA 523 Probability & Statistics I (3)  
 MA 240 Analytic Geometry & Calculus III (3)  
 MA 250 Foundations of Mathematics (3)  
 MA 340 Concepts of Geometry (3)  
 MA 345 Linear Algebra (3)  
 MA 443 Elementary Number Theory (3)  
 MA 445 Modern Algebra (3)

MA 448 Mathematics Seminar (1)

UI 438 Nature & Growth of Mathematical Thought (3)

**Choose 3 Hours From:**

MA 523 Probability & Statistics I (3)  
 MA 540 Projective Geometry (3)  
 MA 545 Linear Algebra & Matrices (3)  
 MA 546 Advanced Calculus I (3)

**MIDDLE SCHOOL EDUCATION**

**(5-9 CERTIFICATE)**

**Choose One Option**

**OPTION I:** Two Areas of Concentration (42-43 Hours)

Language Arts (21)  
 Mathematics (21)  
 Science (23)  
 Social Studies (21)

**OPTION II:** Secondary Education majoring in Language Arts, Mathematics, Science, or Social Studies can add a Middle School certification in the same content area.

**PHYSICAL EDUCATION**

**(PK-12 CERTIFICATE)**

**49 Hour Major - No Minor Required**

*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**

BS 113 Anatomy & Physiology I (4)  
 HL 231 Fitness Conditioning (3)  
 PE 201 Sport & Society (3)  
 PE 216 Theory & Practice of Team Sports (2)  
 PE 217 Theory /Pract of Individ/Dual Leis Act (4)  
 PE 220 First Aid (2)  
 PE 235 Psych of Coaching & Human Perf (3)  
 PE 238 Foundations, Hist, Phil of PE (3)  
 PE 239 Teaching Children Physical Education (3)  
 PE 240 Rhythm, Plays & Games (2)  
 PE 305 Motor Development & Learning (3)  
 PE 310 Assmt for Physical Educators (3)  
 PE 315 Methods in Middle School PE (3)  
 PE 341 Physiology of Conditioning (3)  
 PE 408 Phys Educ for Individuals with Disabilities (3)  
 PE 464 Kinesiology (3)

**Choose One Hour From the Following:**

AT 103 Swimming (1)  
 AT 136 Walk/Jog for Fitness (1)  
 AT 142 Weight Training I (1)  
 AT 153 Angling, Archery & Firearms (1)  
 AT 164 Golf (1)  
 AT 176 Tennis (1)



- AT 192 Judo (1)  
 AT 198 Tae Kwon Do (1)

**Choose One Hour From the Following:**

- AT 130 Aerobics (1)  
 DA 130 Ballroom Dance (1)

**PHYSICS EDUCATION**

**57-73 Hour Major - No Minor Required**

*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**

- EP 100 Physic & Engr Concepts (1)  
 MA 140 Calculus I (5)  
 MA 145 Calculus II (4)  
 MA 240 Calculus III (3)  
 MA 245 Vector Calculus (2)  
 PH 230/030 General Physics I (5)  
 PH 231/031 General Physics II (5)  
 PH 341 Optics (3)  
 PH 345 Experimental Methods I (3)

**OR**

- UI 330 Experimental Methods I (3)  
 PH 360 Modern Physics (3)  
 PH 370 Mechanics (3)  
 PH 371 Electromagnetics (3)  
 UI 422 Scientific Reasoning (3)

**Choose 3 Hours From:**

- BI 332 General Ecology (3)  
 BS 105 Environmental Biology (3)  
 GO 305 Environmental Geoscience (3)  
 UI 360 Recycling & Waste Mgt (3)  
 UI 372 Earthquakes & Society (3)

**Choose one option:**

**PHYSICS EDUCATION OPTION:**

- CH 181 Introductory Chemistry I (5)

**OR**

- CH 185 General Chemistry (5)

**AND**

- CH 186 Found of Inorganic Chem (3)

**Choose 3 Hours From:**

- BS 108 Biology for Living (3)  
 BS 218 Bio Science: A Process Approach (3)  
 BO 200 Plant Biology (4)  
 ZO 200 Animal Biology (3)

**Choose 3 Hours From:**

- GO 110 Physical Geology (3)  
 GO 220 Meteorology (3)  
 GO 320 Oceanography (3)  
 UI 318 Earth Sci: A Process Approach (3)

**UNIFIED SCIENCE OPTION:**

- CH 185 General Chemistry (5)

- CH 186 Found of Inorganic Chem (3)  
 BO 200 Plant Biology (4)  
 GO 110 Physical Geology (3)  
 GO 220 Meteorology (3)  
 GO 320 Oceanography (3)  
 ZO 200 Animal Biology (3)

**Choose 3-4 Hours From:**

- BS 108 Biology for Living (3)  
 BS 218 Bio Science: A Process Approach (3)

**SOCIAL STUDIES EDUCATION**

**54 hour major – No minor required**

*(A grade of 'C' or better is required in all courses within the major.)*

**Required courses:**

- AN 181 Intro to Cultural Anthropology (3)  
 EC 101 Economic Problems and Policies (3)  
 GG 150 Peoples and Places of the World (3)

**OR**

- UI 308 Cult & Phy Landscapes of the World (3)  
 EH 101 Early European Civ (3)  
 EH 103 Modern European Civ (3)  
 GH 315 Historiography (3)  
 PS 103 U.S. Political Systems (3)  
 PY 102 Introduction to Psychology (3)

**OR**

- PY 101 Psych Persp on Human Behr (3)  
 SS 200 Intro to Tchng Social Studies/Sec Schl (3)  
 SS 300 Constr Curr/Sec Social Studies (3)  
 US 105 American History I (3)  
 US 107 American History II (3)  
 WH 305 World Civilizations (3)

**Choose 6 hours from:**

**Any US history courses (300-599) (3)**

- UI 313 The African American Experience (3)  
 UI 414 The American Temper (3)  
 UI 446 The Civil Rights Movement (3)  
 UI 457 African American Slavery (3)

**Choose 3 hours from:**

- Any EH course (300-599) (3)

**Choose 3 hours from:**

- Any WH course (3)  
 UI 350 Middle East Politics (3)

**Choose 3 hours from:**

- PS 310 Govt & Politics of the Am States (3)  
 PS 335 American Foreign Policy (3)  
 PS 360 Political Parties & Voting Behrs (3)  
 PS 365 Legislative Process (3)  
 PS 390 American Judicial System (3)  
 PS 490 Constitutional Law (3)  
 UI 357 Early American Political Thought (3)

## SPANISH EDUCATION

### 36 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

#### Required Courses:

- SN 001 Spanish Exit Exam (0)
- SN 100 Spanish Language & Culture I (3)
- SN 120 Spanish Language & Culture II (3)
- SN 200 Spanish Language & Culture III (3)
- SN 220 Hispanic Literature (3)
- SN 300 Spanish American Culture (3)
- SN 306 Civilization of Spain (3)

#### Choose 6 Hours From:

- FL 311 Survey of FR, GN & SN Lit (3)
- SN 403 Survey of Spanish Literature I (3)
- SN 404 Survey of Spanish Literature II (3)
- SN 430 Spanish American Literature I (3)
- SN 435 Spanish American Literature II (3)

#### Choose 6 Hours From:

- SN 301 Intermediate Spanish Composition (3)
- SN 305 Intermediate Spanish Conversation (3)
- SN 316 Commercial Spanish (3)
- SN 330 Spanish Grammar (3)

#### Choose 6 Hours FL/SN Electives (300-500 level)

#### Additional Requirement:

#### Choose 3 Hours From:

- AN 101 Observing Other Cultures (3)
- AN 181 Intro to Cultural Anthropology (3)
- AN 341 Intro to Linguistic Anthropology (3)
- AN 360 Ancient Civ of Meso-America (3)
- EH 370 Europe in the 20th Century (3)
- WH 125 Islamic Civilization (3)
- WH 130 Latin American Civilization (3)
- UI 375 European Film (3)
- WH 520 Latin America Colonial History (3)
- WH 524 Hist of Mexico Since 1810 (3)

## BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES EDUCATION DEGREE

For students planning to teach occupational family and consumer sciences or consumer homemaking in junior high or secondary schools.

A minimum grade of "C" is required in each course in the content major and in each professional education course.

## FAMILY AND CONSUMER SCIENCES EDUCATION

### 30 Hour Major - No Minor Required

#### Required Courses:

- CF 102 Relationships in the 21st Century (3)
- CF 120 The Child: Devel/Conception to Adolsc (3)
- CF 209 Intro to Family Systems (3)
- CF 430 Parent Child Interaction (3)
- CT 230 Apparel Analysis (3)
- FE 200 Family Resource Management (3)
- FN 205 Selection & Preparation of Foods (3)
- FN 235 Nutrition for Health (3)

#### Choose 3 hours from:

- CF 402 Marriage Interaction (3)
- PY 325 Psych Devlpmnt of the Family (3)

#### Additional Elective Hours Approved by Advisor (3)

#### Professional Education Requirements: 41 Hours

##### Block I: 4 Hours

- ED 250 Intro to Teaching (2)
- ED 251 Intro to Teaching (2)

##### Block II: 14 Hours

- EF 304 School & Society (2)
- SE 305 Secondary Block II Field Experience (2)
- SE 306 Theories of Learning & Management (2)
- SE 307 Teaching Reading/Secondary School (2)
- SE 308 Fund of High School Education (3)
- SE 275 Diversity in America's Schools (3)

##### Block III: 10 Hours

- EX 390 Psych & Education of Excep Child (3)
- SE 300 Technology to Enhance Learning (2)
- SE 312 Tech of Tchng Vocational Home Econ (3)
- SE 370 Secondary Block III Field Experience (2)

##### Block IV: 13 Hours

- EF 400 Seminar/Educ Issues for Student Teachers (1)
- SE 463 Student Teaching Secondary (1st) (6)
- SE 464 Student Teaching Secondary (2nd) (6)

#### Additional requirements: 24-28 hours

(These courses may meet University Studies requirements and must be completed with a minimum grade of "C")

- EN 140 Rhetoric & Critical Thinking (3)
- PY 222 Development of the Adolescent (3)
- SC 105 Fundamentals of Oral Communication (3)

#### Any BI/BS course (3)

- US105 American History I (3)

#### OR

- US107 American History II (3)
- PS103 US Political Systems (3)
- Any CH, PH, GO course (3-5)

#### OR

- UI373 Historical Geology (3)

## **BACHELOR OF MUSIC EDUCATION DEGREE**

For students planning to teach elementary or secondary school music.

### **MUSIC EDUCATION**

#### **65-66 Hour Major - No Minor Required**

A minimum grade of "C" is required in each course in the content major and in each professional education course.

#### **Required Courses:**

- ME 001 Senior Recital (0)
  - ME 450 Synth of Mus Ed Method (2)
  - MM 101 Theories of Music in Culture (3)
  - MM 102 Basic Harmony & Form (3)
  - MM 105 Aural Skills I (1)
  - MM 106 Aural Skills II (1)
  - MM 203 Adv Harmony, Form & Counterpoint (3)
  - MM 204 Twentieth Century Techniques (3)
  - MM 207 Aural Skills III (1)
  - MM 208 Aural Skills IV (1)
  - MH 251 History & Lit of Music to 1827 (3)
  - MH 252 Evolution of Musical Style Since 1827 (3)
  - MP 1xx Applied Music (1+1)
  - MP 2xx Applied Music (1+1)
  - MP 3xx Applied Music (1+1)
  - MP 4xx Applied Music (1)
  - MU 001 Piano Proficiency (0)
  - MU 002 Sophomore Review (0)
  - MU 110 Recitals & Concerts (seven semesters) (0)
  - MU 151 Functional Piano I (1)
  - MU 152 Functional Piano II (1)
  - MU 253 Functional Piano III (1)
  - MU 254 Functional Piano IV (1)
  - MU 341 Basic Conducting (2)
  - UI 310 American Musical Experience (3)
  - UI 402 Music in World Cultures (3)
- Choose three hours from:**
- UI 315 Electronics & Computers in Music (3)
  - UI 392 The Age of Romanticism (3)
  - UI 393 The Age of Modernism (3)
  - UI 394 Music & Culture: 1600-1750 (3)
  - UI 396 The Age of Beethoven (3)
  - UI 397 Music in Medieval & Renaissance Culture (3)

#### **Choose One Option:**

#### **INSTRUMENTAL (20 Hours)**

- ME 250 Trumpet & Horn Techniques (1)
- ME 251 Trombone/Euphonium/Tuba Tech (1)
- ME 252 Flute & Double Reed Techniques (1)
- ME 253 Single Reed Techniques (1)

- ME 260 String Techniques (2)
- ME 261 Percussion Techniques (2)
- ME 400 Marching Band Techniques (1)
- MU 220 Class Voice (2)
- MU 344 Conducting/ Wind Lit (2)
- MU 3xx Instrumental Ensemble (7)

#### **VOCAL (18 Hours)**

- ME 443 Choral Literature (2)
- ME 473 Tech of Teaching Choral Lit (2)
- MP 211 Applied Piano (1+1)
- MU 123 Singer's Diction I (1)
- MU 124 Singer's Diction II (1)
- MU 343 Conducting/Choral Lit (2)
- MU 3xx Choral Ensemble (7)
- MU 424 Vocal Pedagogy (2)

#### **OR**

- MU 430 Pedagogy: Applied Area (2)

#### **Professional Music Education Requirements:**

#### **Instrumental & Vocal - 45 Hours**

##### **Block I: 7 Hours**

- ED 251 Intro to Technology (2)
- ME 222 Principles of Teaching Music (2)
- PY 222 Development of the Adolescent (3)

##### **Block II: 16 Hours**

- EF 304 School & Society (2)
- ME 270 Field Experience Block II (3)
- ME 271 Theories/Learning & Management (2)
- ME 272 Techniques/Teaching Reading in Music (2)
- ME 371 General Music Methods: Elem & Sec (4)
- SE 275 Diversity in America's Schools (3)

##### **Block III: 9 Hours**

- EX 390 Psychology & Educ of the Excep Child (3)
- ME 370 Field Experience Block III (1)
- ME 372 Instrumental Techniques: Elem & Sec (3)

#### **OR**

- ME 373 Choral Techniques: Elem & Sec (3)
- SE 300 Technology to Enhance Education (2)

##### **Block IV: 13 Hours**

- EF 400 Seminar/Educ Issues for Student Teachers (1)
- SE 463 Student Teaching Experience I (6)
- SE 464 Student Teaching Experience II (6)

#### **Additional requirements: 12-18 hours**

*(These courses may meet University Studies requirements and must be completed with a minimum grade of "C")*

- EN 140 Rhetoric & Critical Thinking (3)
- PY 222 Development of the Adolescent (3)
- SC 105 Fundamentals of Oral Communication (3)
- Any BI/BS course (3)

- US105 American History I (3)

#### **OR**

- US107 American History II (3)

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PS 103 US Political Systems (3)  
Any CH, PH, GO course (3-5)

**OR**

UI 373 Historical Geology (3)

## **BACHELOR OF MUSIC DEGREE**

Designed for students with an interest in professional careers in music.

### **MUSIC**

#### **76-82 Hour Major - No Minor Required**

*(A grade of 'C' or better is required for all courses within the major.)*

#### **Required Courses:**

MH 251 Hist & Lit of Music to 1827 (3)  
MH 252 Hist & Lit of Music from 1827 (3)  
MM 101 Theories of Music in Culture (3)  
MM 102 Basic Harmony & Form (3)  
MM 105 Aural Skills I (1)  
MM 106 Aural Skills II (1)  
MM 203 Adv Harmony, Form & Counterpoint (3)  
MM 204 Twentieth Century Techniques (3)  
MM 207 Aural Skills III (1)  
MM 208 Aural Skills IV (1)  
MU 001 Piano Proficiency (0)  
MU 002 Sophomore Review (0)  
MU 110 Recitals & Concerts (0)  
MU 151 Functional Piano I (1)  
MU 152 Functional Piano II (1)  
MU 253 Functional Piano III (1)  
MU 254 Functional Piano IV (1)  
MU 300 Junior Recital (1)  
MU 341 Basic Conducting (2)  
MU 400 Senior Recital (2)  
UI 310 American Musical Experience (3)  
UI 402 Music in World Cultures (3)

#### **Choose 3 Hours From:**

UI 315 Electronics & Computers in Music (3)  
UI 392 The Age of Romanticism  
UI 393 The Age of Modernism (3)  
UI 394 Music & Culture: 1600-1750 (3)  
UI 396 The Age of Beethoven (3)  
UI 397 Music in Medieval & Renaissance Culture (3)

#### **Choose One Option:**

#### **COMPOSITION (42 Hours)**

MP 197 Applied Music: Composition (2)  
MP 298 Applied Music: Composition (4)  
MP 399 Applied Music: Composition (6)  
MP 499 Applied Music: Composition (6)  
MP 4xx Applied Music: Piano (2)

MU 430 Pedagogy: Applied Area (2)  
MU 432 Literature: Applied Area (2)  
MU xxx Major Ensemble (8)  
MU xxx Music Electives MU 299 or above (8)

#### **INSTRUMENTAL PERFORMANCE (36 Hours)**

MP 1xx Applied Music: Instrumental (1+1)  
MP 2xx Applied Music: Instrumental (2+2)  
MP 3xx Applied Music: Instrumental (3+3)  
MP 4xx Applied Music: Instrumental (3+3)  
MU 299 Chamber Music (4)  
MU 3xx Instrumental Ensemble (8)  
MU 430 Pedagogy: Applied Area (2)  
MU 432 Literature: Applied Area (2)  
MU xxx Music Electives MU 300 or above (2)

#### **VOCAL PERFORMANCE (38 Hours)**

MP 101 Applied Music: Voice (1+1)  
MP 202 Applied Music: Voice (2+2)  
MP 303 Applied Music: Voice (3+3)  
MP 403 Applied Music: Voice (3+3)  
MU 123 Singer's Diction I (1)  
MU 124 Singer's Diction II (1)  
MU 3xx Vocal Ensemble (8)  
MU 424 Vocal Pedagogy (2)

**OR**

MU 430 Pedagogy: Applied Area (2)  
MU 432 Literature: Applied Area (2)  
MU xxx Music Elective MU 299 or above (6)

## **BACHELOR OF SCIENCE IN NURSING**

The Bachelor of Science in Nursing (BSN) degree may be taken as a (1) professional program in nursing that prepares graduates to meet all requirements for making application to the Missouri State (or other state) Board of Nursing to write the national examination for licensure as a registered nurse (RN) and (2) baccalaureate completion (RN-BSN) program in nursing after licensure as a registered nurse.

See Admission to Nursing Programs criteria under Admissions, page 12. To be retained in the nursing program students must maintain at least a cumulative GPA of 2.0 in academic work at the University. When a student is enrolled in NC and NS prefix courses with the same course number, both courses must be successfully completed in order for the student to continue in the program.

Students who receive a grade below a 'C' in any NS prefix course or an 'F' in any NC prefix course are not eligible to continue in the program, and must apply for readmission to the Department of Nursing Student Affairs Committee. Any student with a second failure in any NC or NS course is not eligible for readmission.

See BSN Student Handbook for specific instructions for retaking an NC or NS prefix course or contact the Department of Nursing.

## **NURSING**

### **59 Hour Major - No Minor Required**

*(A grade of 'C' or better is required in all courses within the major.)*

#### **Required Courses (BSN):**

- NC 371 Fundamentals of Nursing Clinical (3)
- NC 372 Nursing Assessment Clinical (1)
- NC 387 Adult Health I Clinical (2)
- NC 388 Maternal-Newborn Nursing Clinical (1)
- NC 389 Mental Health Nursing Clinical (1)
- NC 487 Adult Health II Clinical (2)
- NC 488 Pediatric Nursing Clinical (1)
- NC 489 Nursing of the Elderly Clinical (1)
- NC 491 Transitions in Nursing Clinical (2)
- NC 492 Community Health Nursing Clinical (2)
- NC 498 Nursing Practicum Clinical (3)
- NS 371 Fundamentals of Nursing (3)
- NS 372 Nursing Assessment (2)
- NS 373 Pharmacology (3)
- NS 374 Pathophysiology (3)
- NS 381 Nursing Research (2)
- NS 387 Adult Health I (3)
- NS 388 Maternal-Newborn Nursing (3)
- NS 389 Mental Health Nursing (3)
- NS 487 Adult Health II (3)
- NS 488 Pediatric Nursing (3)
- NS 489 Nursing of the Elderly (3)
- NS 491 Transitions in Nursing (3)
- NS 492 Community Health Nursing (3)
- NS 498 Nursing Practicum (1)
- NS 499 NCLEX Prep (2)

#### **Required Support Courses:**

*(Some courses may fulfill University Studies requirements. A grade of 'C' or better is required in each support course.)*

- BS 113 Anatomy & Physiology I (4)
- BS 114 Anatomy & Physiology II (4)
- BS 240 Microorg/Human Hosts (3)
- CH 180 Chemistry in Our World (3)
- FN 235 Nutrition for Health (3)\*
- PY 220 Psych Dev Across Lifespan (3)
- UI 412 American Health Care System (3)
- xx xxx Statistics (3)

#### **Required Nursing Courses (RN-BSN):**

- NS 380 Holistic Assessment & Diagnosis (4)
- NS 385 Research in Professional Practice (2)

- NS 386 Prof Practice: Community Health Nrsng (6)
- NS 390 Framework for Professional Nursing (4)
- NS 480 Prof Practice: Leadership & Mgmt (6)
- NS 483 Prof Practice: Care of the Frail Elderly (2)

For required support courses and advanced placement credit information, contact the Department of Nursing.

*\*RN-BSN students may take any Living Systems course.*

## **ASSOCIATE DEGREES**

The following statements pertain to all associate degrees:

- A minimum of 20 hours must be completed in residence at Southeast.
- 15 of the final 30 credits earned for an associate's degree that the institution awards must be earned at Southeast.
- The student's last term must be completed in residence at Southeast, except that, in the case where six or fewer hours are needed to meet the total number of hours required for graduation, they may be taken from another accredited college or university, or by correspondence or extension, subject to the rules governing extension courses and transfer of credit.
- A minimum cumulative GPA of 2.0 is required for graduation.
- A minimum 2.0 GPA for all of the degree credit attempted at Southeast is required in the major and overall.
- The student must pass EN 099 and MA 102; or score at the appropriate levels on placement tests to have the courses waived.
- Additionally, the following statements pertain to all associate of arts degrees:
- A minimum of 64 hours of degree credit (courses numbered 100-599) is required for graduation.

The University Studies Program, consisting of at least 21 hours, is required.

## **ASSOCIATE OF ARTS IN CHILD CARE AND GUIDANCE**

Granted upon completion of a two-year program in human environmental studies and related disciplines.

<b>Minimum Degree requirements</b>	<b>72 Hours</b>
<b>Required Courses</b>	<b>39 Hours</b>
<b>Additional Requirements</b>	<b>33 Hours</b>

**Required Courses:**

- CF 102 Relationships in the 21st Century (3)
- CF 120 The Child: Dev/Concept to Adolsc (3)
- CF 124 Hlth/Nutr/Safety Child (3)
- CF 200 Constructive Guidance & Discipline (3)
- CF 209 Intro to Family Systems (3)
- CF 215 Observ: Perception & Process (3)
- CF 233 Creative Thought & Express in Children (3)
- CF 250 Family Child Care: Feasibility Mgmt (3)
- CF 280 Learning Theory/App: Preschool (3)
- CF 285 Learn Theory/App: Infants & Toddlers (3)
- CF 300 Parent Education (3)
- CF 310 School Age Child Care (3)
- EX 390 Psych & Educ of the Except Child (3)

**Additional Requirements:**

- BS 103 Human Biology (3)\*
- EN 100 English Composition I (3)\*
- EN 140 Rhetoric & Critical Thinking (3)\*
- FE 200 Family Financial Mgmt (3)\*
- LI 243 Children's Literature (3)\*
- MA 118 Mathematics I (3)\*
- PH 218 Physical Science: A Process Approach (3)\*
- PS 103 U.S. Political Systems (3)\*
- SW 121 Helping Skills for Human Services (3)\*
- US 105 American History I (3)\*

**OR**

- US 107 American History II (3)\*
- UI 100 First Year Experience (3)

*\*Fulfills University Studies requirement*

**NOTE:** MA 102 Intermediate Algebra is required unless waived by appropriate score on ACT Math subtest.

**ASSOCIATE OF APPLIED SCIENCE IN COMPUTER TECHNOLOGY**

The purpose of the program is to prepare individuals for entry-level positions in industry.

**68-70 Hours Required**

**Core Requirements: 35-37 Hours**

- EN 100 English Composition I (3)
- OR**
- EN 140 Rhetoric & Critical Thinking (3)
  - IM 102 Technical Communications (3)
  - IM 301 Industrial Safety Supervision (3)
  - IM 419 Industrial Supervision (3)
  - MA 133 Plane Trigonometry (3)
  - MA 134 College Algebra (3)
  - MN 260 Tech Computer Programming (3)
  - PH 120 Introductory Physics I (5)\*

**OR**

- PH 106 Physical Concepts (3)\*

- PH 121 Introductory Physics II (5)

**OR**

- CH 181 Basic Principles of Chemistry (5)\*
- PS 103 U.S. Political Systems (3)
- SC 105 Fund of Oral Communications (3)

*\*PH 120 required for Automated Manufacturing and Microcomputer Systems Options. PH 121 required for Microcomputer Systems Option.*

**Choose One 33 Hour Option:**

**AUTOMATED MANUFACTURING**

- ET 160 Basic Electricity & Electronics (3)
- ET 304 Intro to PLCs (3)
- IM 311 Statistical Process Control (3)
- MN 120 Fund of Engr Design Processes (3)
- MN 170 Industrial Materials & Testing (3)
- MN 203 Industrial Materials & Processes I (3)
- MN 221 Solid Modeling & Rapid Prototyping (3)
- MN 304 Industrial Materials & Processes II (3)
- MN 324 Mechanical Design Processes (3)
- MN 356 Robotics (3)
- MN 412 Advanced Manufacturing System (3)

**MICROCOMPUTER SYSTEMS**

- ET 160 Basic Electricity & Electronics (3)
- ET 245 Logic Circuits (3)
- IM 317 Industrial Internship (3)

**OR**

- CY 201 Intro to Cybersecurity (3)
- TN 254 Fiber Optics & Network Comm (3)
- TN 255 Microcomputer Maint & Trblshtng (3)
- TN 275 Network Fundamentals (3)
- TN 375 Network Routing Protocols & Concepts(3)
- TN 395 Server Maint & Trblshtng (3)
- TN 425 Wireless Comm & Mobile Data Networks (3)
- TN 435 Network Security (3)
- TN 563 LAN Switching (3)

**TECHNICAL COMPUTER GRAPHICS**

- GM 180 Intro to Technical Graphics (3)
- GM 200 Vector& Bitmapped Graphics for Industry (3)
- GM 282 Vector Graphics (3)
- GM 320 Graphic User Interface Design (3)
- GM 380 3D Modeling & Animation Prod (3)
- GM 385 HD Video for Multimedia (3)
- GM 386 Interactive Multimedia & Animation (3)
- GM 490 Advanced Graphics Projects (3)
- PG 284 Photography Fundamentals (3)
- PG 285 Commercial Photographic Lighting (3)
- TN 254 Fiber Optics & Network Comm (3)

**OR**

- TN 255 Microcomputer Maint & Troubleshooting (3)

## **PRE-PROFESSIONAL PROGRAMS**

Pre-professional programs available at the University include pre-architecture, pre-chiropractic, pre-dental, pre-engineering, pre-law, pre-medical, pre-optometry, pre-pharmaceutical, pre-physical therapy and pre-veterinary.

### **Pre-Architecture Curriculum**

The purpose of the one-year pre-professional program is to provide preparatory educational experiences for those seeking to transfer to another university for the completion of a professionally accredited degree in architecture, interior architecture or landscape architecture. The coursework provides an important opportunity for students to explore their interests and level of commitment before applying to an architecture school. The courses are meant as a foundation for students interested in an architecture program. Students will need to work closely with the school in which they plan to transfer to ensure optimal transferability of coursework. (Students who decide not to transfer could apply some courses from the pre-architecture curriculum to the Technology Management: Construction Management and Design option.)

### **Pre-Chiropractic Curriculum**

It is possible to gain preparation for chiropractic school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students in the pre-health professions. However, students in other majors may choose pre-chiropractic as a second major, with the understanding this does not lead to a 4 year degree. The pre-chiropractic curriculum contains a preponderance of biology and chemistry coursework required by chiropractic schools. Students should see the pre-chiropractic advisor during their first semester at Southeast. There are not a large number of chiropractic schools in the United States and students should obtain the admission requirements from the schools to which they plan to apply. This information will be used to plan the student's academic program in consultation with the pre-chiropractic advisor in the Department of Biology.

Southeast Missouri State University has entered into an agreement with Logan College of Chiropractic. It is a 3+3 program in which a student completes three years of coursework at Southeast, and then begins coursework at Logan. After the first year at Logan a

bachelor's degree is awarded by Southeast and upon completion of the three years at Logan a Doctor of Chiropractic Medicine is awarded.

### **Pre-Dental Curriculum**

It is possible to gain preparation for dental school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students in the pre-health professions. However, students in other majors may choose pre-dental as a second major, with the understanding this does not lead to a 4 year degree. The pre-dental curriculum contains a preponderance of biology and chemistry coursework required by medical schools and preparation for the DAT. Students should see the pre-dental advisor during their first semester at Southeast. There are 54 dental schools in United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with the pre-dental advisor in the Department of Biology.

### **Pre-Engineering Curriculum**

The two-year pre-engineering curriculum is designed so that students can receive a degree from an engineering school after an additional two years of study. The curriculum is closely articulated with programs at Missouri University of Science & Technology in Rolla, MO. Transfer brochures have been prepared in cooperation with the university and are available to students. Students planning to attend another engineering school should consult the catalog from that institution and arrange their programs with a pre-engineering advisor.

Students expecting to enroll in the pre-engineering program should have a mathematics background in high school of at least one year of geometry, two years of algebra, and one year of pre-calculus mathematics which includes trigonometry. If these requirements are not met it will be necessary to correct any deficiencies upon entering the University which may delay graduation.

Students should complete from 64 to 68 credit hours prior to transferring if they expect to complete an engineering degree in four years. This includes not only required courses in mathematics, physics, and engineering, but also courses in the humanities and the social sciences. Students who maintain a high academic standing will be eligible for transfer scholarships. An advisor in the Department of Physics and Engineering Physics should be consulted for details regarding the pre-engineering program.

## **Pre-Law Curriculum**

Students interested in attending law school after graduation should understand that there is no single pre-law curriculum. Rigidly structured “pre-law majors” are in fact strongly discouraged by schools of law. A wide variety of undergraduate majors are suitable as law school preparation, provided that they have a strong academic content. Courses that develop a student’s ability to think logically and to express thoughts lucidly in written form are strongly suggested.

While there is no specific “pre-law major”, the Department of Political Science, Philosophy, and Religion provides pre-law advising to those students, regardless of actual major, who are considering a career in law. Such advising includes recommending to students various schools of law which may be most appropriate for them, assisting students with the law school application process (including the Law School Admission Test), and recommending undergraduate preparation for the subsequent law school experience.

## **Pre-Medical Curriculum**

It is possible to gain preparation for medical school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students in the pre-health professions. However, students in other majors may choose pre-medicine as a second major, with the understanding this does not lead to a 4 year degree. The pre-medicine curriculum contains a preponderance of biology and chemistry coursework required by medical schools and preparation for the MCAT. Students should see the premedical advisor during their first semester at Southeast. There are more than 120 M.D. schools and 20 D.O. schools in United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with a pre-medicine advisor in the Department of Biology.

## **Pre-Optometry Curriculum**

It is possible to gain preparation for optometry school while pursuing any academic major in the university. The Biology: Biomedical Sciences option is designed specifically for students in the pre-health professions. However, students in other majors may choose pre-optometry as a second major, with the understanding this does not lead to a 4 year degree. The pre-optometry curriculum contains a preponderance of

biology and chemistry coursework required by medical schools and preparation for the OAT. Students should see the pre-optometry advisor during their first semester at Southeast. There are only 17 optometry schools in United States and the entrance requirements are quite similar, however there are slight variations. Planning for the variety of requirements is done in consultation with the pre-optometry advisor in the Department of Biology.

## **Pre-Pharmacy Curriculum**

Since there are more than 70 schools of pharmacy in the United States, pre-pharmacy should be advised according to the bulletin(s) of the school(s) to which the student is considering transfer. While each program is unique, most programs are either one or two years in length, and usually require chemistry, biology, physics, mathematics, and English, in addition to certain specified courses in other fields. Students interested in pre-pharmacy should contact Dr. Philip Crawford, the chairperson of the Department of Chemistry, as early as possible in the enrollment process.

## **Pre-Physical Therapy Curriculum**

Physical therapy programs require completion of a bachelor’s degree prior to admission. Students preparing for application to such programs must declare a major at Southeast in addition to declaring pre-physical therapy. Health Management, Biology, Chemistry, Recreation and Human Environmental Studies/Dietetics option majors are particularly complementary to physical therapy preparation as they include many of the courses that physical therapy programs require for admission. Required courses commonly include biology, chemistry, mathematics, physics, psychology and English.

Because each physical therapy program designates its own requirements for admission, students should pay close attention to the prerequisites of schools where they plan to apply. Students pursuing pre-physical therapy should contact the Department of Health, Human Performance and Recreation as early as possible in the enrollment process.

## **Pre-Veterinary Curriculum**

Students preparing for application to a professional Veterinary Medicine Program for completion of a Doctor of Veterinary Medicine (D.V.M.) degree must enroll in a pre-professional program.

The minimum requirements for admission to most



professional programs include 64 hours of coursework (the pre-professional program), completion of the MCAT or GRE and acceptance by the College of Veterinary Medicine to which the student makes application.

Specific subjects required in the pre-professional program include English, college algebra, biology, chemistry (inorganic, organic and biochemistry), physics, and certain University Studies courses. Courses in animal science are also recommended. Students should consult the current catalog of the College of Veterinary Medicine they plan to attend and develop

their program in conference with the Pre-Veterinary Medicine advisor.

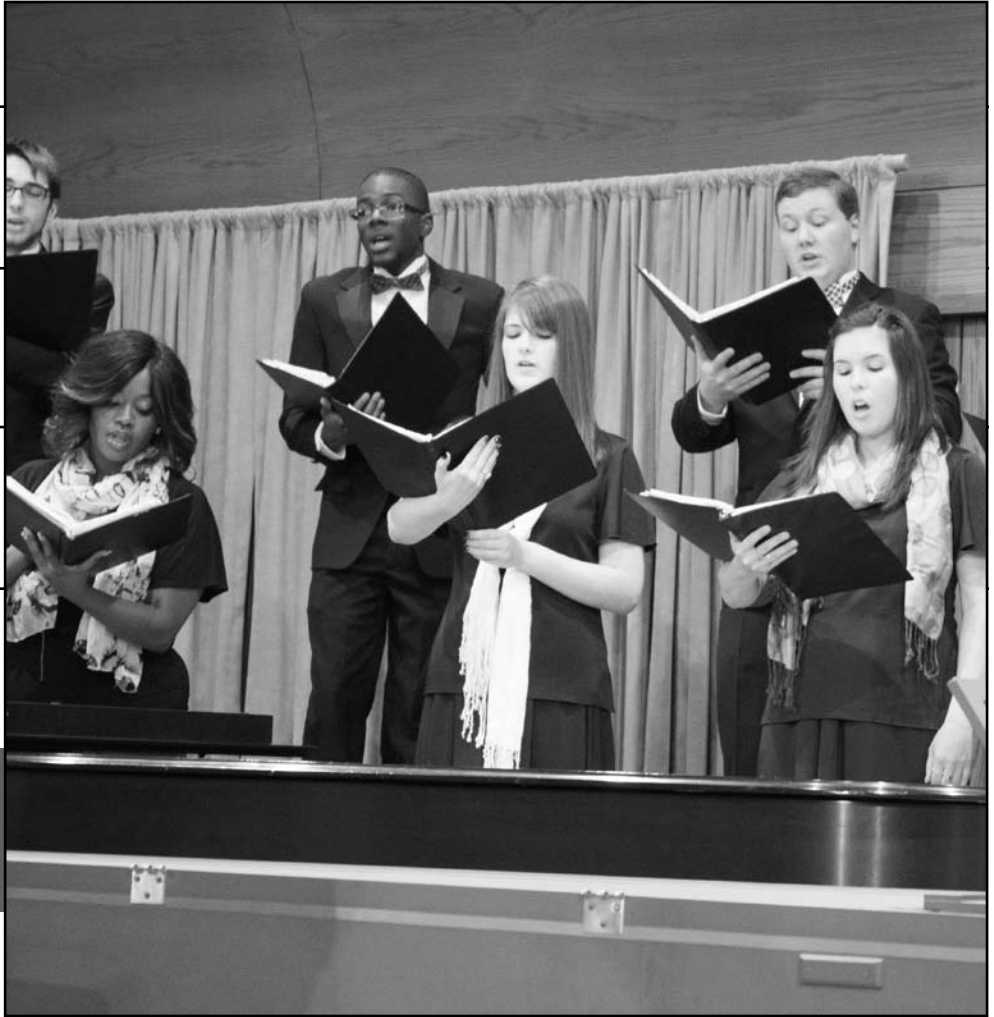
Students enrolled in the pre-professional program should plan a four-year degree program along with the Pre-Veterinary Medicine program. Students enrolling at Southeast Missouri State University will find majors in Agriculture, Chemistry, or Biology particularly complementary to the D.V.M. program. For more information, contact the College of Science, Technology and Agriculture Advising Center.



*Minors*

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**MINORS**

Departments may require a minor for majors under the Bachelor of Arts, Bachelor of Science & Bachelor of Science in Education (Secondary). The areas in which minors are offered are:

Accounting  
 Aerospace Studies  
 Agriculture  
 Agriculture/Horticulture Entrepreneurship  
 Anthropology  
 Archaeology  
 Architectural Design  
 Art/Art History  
 Autism Studies  
 Biological & Medical Sciences Entrepreneurship  
 Biology  
 Botany  
 Business Administration  
 Chemistry  
 Child Development  
 Coaching  
 Commercial Photography  
 Communication Disorders  
 Communication for Legal Professionals  
 Communication Studies  
 Companion Animals  
 Computer Networking  
 Computer Science  
 Criminal Justice  
 Criminology  
 Dance  
 Economics  
 Electronics Technology  
 Engineering Physics  
 Entrepreneurship  
 Environmental Science  
 Environmental Soil Science  
 Environmental Studies  
 Exercise Science  
 Family Economics & Management  
 Family Studies  
 Fashion Entrepreneurship  
 Fashion Merchandising  
 Finance  
 Fine Arts Entrepreneurship  
 French  
 Geoscience  
 German  
 Gerontology  
 Global Studies  
 Graphic Communications Technology  
 Health Management Entrepreneurship  
 Health Promotion  
 Historic Preservation  
 History  
 Horticulture  
 Hospitality Management  
 Human Resource Management  
 Industrial and Engineering Technology Entrepreneurship  
 Industrial Management  
 Information Systems  
 Interior Design  
 International Business  
 Latin American Studies  
 Literature  
 Management  
 Marketing: Integrated Marketing Communications  
 Marketing: Marketing Management  
 Marketing: Retail Management  
 Marketing: Sales Managements  
 Mass Communication  
 Mathematics  
 Microbiology  
 Music  
 Nutrition  
 Outdoor Adventure Leadership  
 Philosophy  
 Physics  
 Political Science  
 Psychology: Applied  
 Psychology: Developmental  
 Psychology: General  
 Psychology: Psychological Services  
 Public Administration  
 Recreation  
 Religion  
 Small Press Publishing  
 Social Rehabilitation & Treatment  
 Social Work  
 Sociology  
 Soils  
 Spanish  
 Sport Management  
 Substance Abuse Prevention  
 Theatre: Acting  
 Theatre: General  
 Theatre: Technical  
 Women's Studies  
 Writing  
 Zoology

**ACCOUNTING****15 Hours Required****Required Courses:**

AC 221 Princ of Accounting I (3)

AC 222 Princ of Accounting II (3)

**Choose 9 Hours AC courses (300-500 level) except AC 573****AEROSPACE STUDIES****16 Hours Required****Required Courses:**

AS 100 Foundation of USAF I (1)

AS 101 Foundation of USAF II (1)

AS 200 Evol of USAir/Space Power I (1)

AS 201 Evol of USAir/Space Power II (1)

AS 300 AF Leadership Studies I (3)

AS 301 AF Leadership Studies II (3)

AS 400 National Security Affairs (3)

AS 401 Preparation for Active Duty (3)

**AGRICULTURE****15 Hours Required****Required Courses:**

AO 120 Plant Science (3)

AO 125 Plant Science Lab (1)

AY 101 Animal Science (3)

AY 105 Animal Science Experience (2)

**Choose 6 Hours AG, AO, AY, HO courses (300-400 level)****AGRICULTURE/HORTICULTURE  
ENTREPRENEURSHIP****15 Hours Required****Required Courses:**

BA 361 Prin of Entrepreneurship (3)

BA 551 Managing/Growing a New Venture (3)

BA 561 Bus Planning for a New Venture (3)

**Choose 6 Hours approved AG/ HO courses****ANTHROPOLOGY****18 Hours Required****Required Courses:**

AN 181 Intro Cultural Anthropology (3)

AN 317 Ethnographic Field Methods (3)

AN 341 Intro Linguistic Anthropology (3)

**Choose 9 Hours From:**

AN 100 Foundations of Human Behvr (3)

AN 101 Observing Other Cultures (3)

AN 180 Intro/Phys Anthro &amp; Archaeology (3)

AN 250 World Archaeology (3)

AN 360 Meso-American Civilizations (3)

AN 493 Anthropology Theory Sem:Cult Anthr/Linguistics (3)

**ARCHAEOLOGY****18 Hours Required****Required Courses:**

AN 180 Intro/Phys Anthro &amp; Archaeology (3)

AN 382 Archaeology: Method &amp; Theory (3)

AN 313 Archaeological Fieldwork (3)

**OR**

AN 551 Historic Archaeology Fieldwork

**Choose 9 Hours From:**

AN 100 Foundations of Human Behvr (3)

AN 101 Observing Other Cultures (3)

AN 181 Intro Cultural Anthropology (3)

AN 250 World Archaeology (3)

AN 317 Ethnographic Field Methods (3)

AN 319 Archaeological Laboratory (3)

AN 360 Meso-American Civilizations (3)

AN 381 North American Archaeology (3)

AN 493 Anthropology Theory Sem:Cult Anthr/Linguistics (3)

**ARCHITECTURAL DESIGN****15 Hours Required****Required Courses:**

CM 126 Computer Aided Arch Drafting (3)

CM 226 Residential Arch Drft &amp; Design (3)

**Choose 9 Hours From:**

CM 315 Constr Contracts/Legal Iss (3)

CM 322 Commercial Arch Drft &amp; Design (3)

CM 243 Constr Methods &amp; Materials (3)

CM 310 Constr Codes &amp; Compliance (3)

HO 330 Landscape Planting Design (3)

**ART/ART HISTORY****18 Hours Required****Required Course:**

AH 110 Art History Survey I (3)

**OR**

AR 112 Perspectives in Art (3)

**Choose 6 Hours From:**

AH 210 Art History Survey II (3)

AR 100 Drawing I (3)

AR 104 Design Foundations (3)

AR 106 3-D Foundations (3)

- AR 201 Color Composition (3)  
AR 202 Drawing II (3)

**Choose 9 Hours of Upper Division AR or AH prefix courses (Related courses are encouraged.)**

## AUTISM STUDIES

**21 Hours Required**

### Required Courses:

- CF/PY 120 The Child (3)

**OR**

- CF 220 Young & Middle Adulthood (3)  
EX 311 Intro to Exceptional Child (3)

**OR**

- EX 390 Psych/Educ of the Except Child (3)  
EX 555 Intro to Autism Spectrum Disorders (3)  
EX 556 Lang Acquisition & Comm Strat (3)

**Choose One 9 Hour Option**

### OPTION I Applied Behavioral Analysis Focus

- CF 531 Basic Prin of Appl Behvrl Analysis (3)  
CF 532 Behvrl Assess & Data Analysis (3)  
CF 533 Strat for Behvrl Intervention & Change (3)

### OPTION II Non-Applied Behavioral Analysis Focus

**Choose 3 Hours:**

- CD 110 Lang/Culture of the Deaf (3)  
CD 340 Normal Spch/Lang Dev (3)  
CE 370 Lang Dev of the Young Child (3)

**Choose 3 Hours:**

- CE 330 Classroom Management (3)  
CF 531 Basic Prin of Appl Behvrl Analysis (3)  
EX 304 Behavior Management (3)  
EX 557 Behavior Mgmt/Interventions (3)

**Choose 3 Hours:**

- CF 200 Constructive Guidance & Discipline (3)  
CF290/291 Preschool Participation/Lab (3)  
EX 558 Seminar in Autism (3)

## BIOLOGICAL AND MEDICAL SCIENCES ENTREPRENEURSHIP

**18 Hours Required**

### Required Courses:

- BA 361 Prin of Entrepreneurship (3)  
BA 551 Managing/Growing a New Venture (3)  
BA 561 Bus Planning for a New Venture (3)

**Choose 9 Hours approved BI/BO/BT/ZO courses**

## BIOLOGY

**21 Hours Required:**

- BI 151 Biological Reasoning (3)  
BI 152 Intro to Scientific Investigation (1)

- BI 153 Intro to Organismal Biology (4)  
BI 154 Genetics & Cell Biology (4)

**Choose 9 Hours From:**

BI, BO, BT, ZO prefix courses at the 300-599 level

## BOTANY

**22 Hours Required**

### Required Courses:

- BI 151 Biological Reasoning (3)  
BI 152 Intro to Scientific Investigation (1)  
BI 153 Intro to Organismal Biology (4)  
BI 154 Genetics & Cell Biology (4)  
BO 200 Plant Biology (4)

**Choose 6 Hours From:**

- BI 384 Readings in Biology (1)  
BI 485 Topics in Biology (3)  
BI 493 Readings in Biology (2)  
BI 589-591 Biological Research (1-3)  
BO 361 Systematic Botany (3)  
BO 420 Ethnobotany (3)  
BO 445 Plant Physiology (3)  
BO 461 Native Aquatic Plants (3)  
BO 469 Field Botany (2)

## BUSINESS ADMINISTRATION

**30 Hours Required\***

*(For non-Business majors only)*

### Required Courses:

- AC 221 Princ of Accounting I (3)  
AC 222 Princ of Accounting II (3)  
AD 101 Intro/Microcomputer Appl (3)  
EC 225 Princ of Macroeconomics (3)  
FI 361 Financial Management (3)  
MG 301 Principles of Management (3)  
MI 375 Management Info Systems (3)  
MK 301 Principles of Marketing (3)  
QM 257 Business Statistics (3)  
QM 258 Business Statistics II (3)

*\*All courses require minimum grade of 'C'.*

## CHEMISTRY

**20 Hours Required**

### Required Courses:

- CH 185 General Chemistry (5)  
CH 186 Found of Inorganic Chem (3)  
CH 187 Inorg Chem & Qual Analysis (2)

**Choose two of the following:**

- CH 271 Found of Analytical Chem (5)  
CH 311 Found of Physical Chem (4)  
CH 341 Found of Organic Chem (4)

CH 531/UI 331 Found of Biochem (3)

**Choose one CH3xx-5xx level course to total 20 hours. Must include a minimum of 3 hours of lab beyond CH 187**

## CHILD DEVELOPMENT

**18 Hours Required**

**Required Courses:**

- CF/PY 120 The Child (3)
- CF 124 Hlth/Nutr/Safety Child (3)
- CF 200 Constructive Guidance & Discipline (3)
- CF 215 Observ: Percep & Process (3)
- CF 330 Middle Childhd & Youth Issues (3)
- CF 410 Culture & Ethnicity of the Child (3)

## COACHING

**21-22 Hours Required**

**Required Courses:**

- CG 400 Coaching Administration (3)
- CG 470 Practicum in Coaching (3)
- PE 220 First Aid (2)
- PE 235 Psych/Coaching & Hum Perfrm (3)
- PE 341 Physiology of Conditioning (3)
- SM 540 Leg Aspects/Sport & Phys Activity (3)

**Choose 4-5 Hours From:**

- CG 205 Coaching of Baseball (2)
- CG 210 Coaching of Basketball (2)
- CG 215 Coaching of Football (2)
- CG 220 Coaching of Softball/Volleyball (3)
- CG 225 Coaching of Track & Field (2)
- CG 235 Coaching of Soccer (2)

## COMMERCIAL PHOTOGRAPHY

**18 Hours Required**

- GM 200 Vector & Bitmapped Graphics for Ind (3)
- GM 385 HD Video for Multimedia (3)

**OR**

- PG 325 Pract in Comm Photography (3)
- PG 284 Photography Fundamentals (3)
- PG 285 Commercial Photography Lighting (3)
- PG 286 Commercial Studio Photography (3)
- PG 384 Commercial Photography I (3)

## COMMUNICATION DISORDERS

**17-19 Hours Required**

- CD 225 Phonetics (3)
- CD 230 Intro to Comm Disorders (4)
- CD 340 Normal Spch & Lang Develop (3)
- CD 406 Svc Delivery in Comm Disorders (4)

**Choose 3-5 Hours from:**

- CD 371 Anatomy & Phys of Hearing Mech (3)
- CD 411 Nature of Assmnt/Intv Spch & Language (5)
- CD 426 Hrng Disorders: Audio Assessmnt (3)

## COMMUNICATION FOR LEGAL PROFESSIONALS

**15 Hours Required**

**Required Courses:**

- SC 200 Advanced Public Speaking (3)
- SC 314 Argumentation & Problem Solving (3)
- UI 425 Persuasion (3)

**Choose 6 Hours From:**

- SC 310 Speech Writing (3)
- SC 335 Interviewing (3)
- SC 360 Experiential Comm Proj (1-3)
- SC 406 Negotiation & Conflict Mgmt (3)
- UI 320 Modern Presidency (3)
- UI 345 Nonverbal Communication (3)
- UI 423 Political Communication (3)

## COMMUNICATION STUDIES

**15 Hours Required**

- SC 320 Group Comm & Decision Making (3)
- SC 355 Relational Comm Strategies (3)
- UI 425 Persuasion (3)

**Choose 6 Hours From:**

- SC 200 Advanced Public Speaking (3)
- SC 215 Intercultural Comm (3)
- SC 310 Speech Writing (3)
- SC 314 Argumentation & Problem Solving (3)
- SC 330 Corporate & Professional Comm (3)
- SC 335 Interviewing: Princ & Practices (3)
- SC 360 Experiential Comm Proj (1-3)
- SC 406 Negotiation & Conflict Mgmt (3)
- SC 482 Special Problems in Comm Studies (3)
- SC 510 Leadership & Team Building (3)
- SC 560 Organizational Communication (3)
- UI 301 Managerial Communication Processes (3)
- UI 320 Modern Presidency (3)
- UI 345 Nonverbal Communication (3)
- UI 423 Political Communication (3)
- UI 504 Leaders of Social Change (3)

## COMPANION ANIMALS

**17 Hours Required**

- AY 101 Animal Science (3)
- AY 105 Animal Science Experience (2)
- AY 200 Companion Animals (3)
- AY 205 Horse Science (3)

- AY 304 Principles of Animal Nutrition (3)  
 AY 350 Animal Reproduction (3)

## COMPUTER NETWORKING

### 15 Hours Required

- TN 275 Network Fundamentals (3)  
 TN 255 Microcomputer Maint & Trblshng (3)  
 TN 375 Netwk Rout Protocols & Concepts (3)  
 TN 395 Server Maint & Trblshooting (3)  
 TN 563 LAN Switching (3)

## COMPUTER SCIENCE

### 15 Hours Required

#### Required Courses:

- CS 155 Computer Science I (4)  
 CS 265 Computer Science II (4)

**Choose 7 Hours CS courses including 6 hours at the 300-500 level**

## CRIMINAL JUSTICE

### 15 Hours Required

**15 hours in criminal justice, including 6 hours at the 300-500 level.**

## CRIMINOLOGY

### 18 Hours Required

#### Required Courses:

- SO 205 Social Problems in America (3)  
 SO 360 Criminology (3)  
 SO 444 Deviant Social Behavior (3)

#### Choose 9 Hours From:

- CJ 375 Crim Typ & Victimology (3)  
 CJ 841 Death Penalty in America (3)  
 SO 375 Collective Behavior (3)  
 SO 385 Family Violence (3)  
 SR 444 Trtmnt Strat: Alc & Drg Ab (3)  
 UI 300 Drugs & Behavior (3)  
 UI 309 Crime & Hum Behvr (3)

## DANCE

### 23 Hours Required

#### Required Courses:

- DA/TH 105 Rehearsal & Production (1)  
 DA/TH 305 Rehearsal & Production (1)  
 DA 280 Movement Analysis (3)  
 DA 490 Dance History (3)

**Choose 15 Hours (9 Hours must be upper division):**

- DA 130 Ballroom Dance (1)

- DA 140 Body-Mind Conditioning (1)  
 DA 186 Beg Jazz Dance (1)  
 DA 211 Ballet I (1)  
 DA 221 Modern Dance I (1)  
 DA 226 Jazz Dance I (1)  
 DA 236 Tap Dance I (1)  
 DA 311 Ballet II (2)  
 DA 321 Modern Dance II (2)  
 DA 326 Jazz Dance II (2)  
 DA 336 Tap Dance II (2)  
 DA 380 Choreography I (3)  
 DA 411 Ballet III (2)  
 DA 421 Modern Dance III (2)  
 DA 426 Jazz Dance III (2)  
 DA 430 Princ of Teaching Dance (3)  
 DA 485 Choreography II (3)

## ECONOMICS

### 15 Hours Required

#### Required Courses:

- EC 215 Principles of Microeconomics (3)  
 EC 225 Principles of Macroeconomics (3)

#### Choose 3 Hours From:

- EC 350 Devel of Economic Thought (3)  
 EC 410 Macroeconomic Theory (3)  
 EC 420 Microeconomic Theory (3)

#### Choose 6 Hours From:

- EC xxx Any EC course (300-500 level) (3)  
 UI 322 International Political Economy (3)  
 UI 349 Comparative Economic Systems (3)  
 UI 366 Law & Economics (3)  
 UI 371 Government & Business (3)

## ELECTRONICS TECHNOLOGY

### 18 Hours Required

#### Required Courses:

- ET 160 Basic Electricity & Electronics (3)  
 ET 245 Logic Circuits (3)  
 ET 304 Fund Prog Logic Contl (3)  
 ET 366 Microcontrollers (3)  
 MN 356 Robotic Fundamentals (3)  
 MN 412 Advanced Manufacturing Systems (3)

#### OR

- MN 383 Fluid Power (3)

## ENGINEERING PHYSICS

### 19 Hours Required

#### Required Courses:

- PH 230/030 General Physics I (5)  
 PH 231/031 General Physics II (5)

**Choose 9 Hours EP or PH electives, including****UI 330**

(Except those courses indicated in the BULLETIN that do not apply on a minor)

**ENTREPRENEURSHIP****15 Hours Required\*****Required Courses:**

- BA 361 Prin of Entrepreneurship (3)  
 BA 561 Bus Planning for New Ventures (3)  
 MG 301 Prin of Management (3)  
 MK 301 Prin of Marketing (3)

**Choose 3 hours:**

- BA 521 Topics in Entrepreneurship (3)  
 BA 531 Imag, Creativity & Innov (3)  
 BA 551 Manag & Grow New Ventures(3)

\*Management majors cannot select this minor.

**ENVIRONMENTAL SCIENCE****20-22 Hours Required**

(For non-science majors; 6 hours must be at 300-400 level)

**Required Courses:**

- BS 105 Environmental Biology (3)  
 CH 180 Chemistry in Our World (3)

**OR**

- CH 181 Basic Principles of Chemistry (5)  
 GO 110 Physical Geology (3)  
 UI 429 Environmental Ethics (3)

**Choose 6 Hours From:**

- AO 120 Plant Science (3)  
 AO 215 Soils (3)  
 BS 108 Biology for Living (3)  
 CH 234 Organic & Biological Chemistry (3)  
 GO 305 Environmental Geoscience (3)  
 GO/EV 365 Environmental Soil Science (3)

**Choose 3 Hours From:**

- AG 201 World Food & Society (3)  
 UI 319 Science, Technology & Society (3)  
 UI 347 Living in a Global Society (3)  
 UI 360 Recycling & Waste Management (3)  
 UI 387 Environmental Law & Public Policy (3)

**ENVIRONMENTAL SOIL SCIENCE****15 Hours Required****Required Courses:**

- AO 215 Soils (3)

**OR**

- GO 365 Environ Soil Science (3)  
 AO 555 Soil Class & Resource Mgmt (3)

**OR**

- GO 555 Soil Class & Resource Mgmt (3)  
 GO 110 Physical Geology (3)

**Choose 6 hours from:**

- AO 427 Soil Fertil & Plant Nutr (3)  
 GO 340 Remote Sensing (3)  
 GO 445 Geographic Information Systems (3)  
 GO 460 Environmental Hydrology (3)

**ENVIRONMENTAL STUDIES****21 Hours Required**

(For science majors; 6 hours must be at 300-400 level)

**Required Courses:**

- BS 105 Environmental Biology (3)  
 GO 110 Physical Geology (3)  
 UI 387 Environmental Law & Public Policy (3)  
 UI 429 Environmental Ethics (3)

**Choose 3 Hours From:**

- EN 301 Writing for Science & Technology (3)  
 GO 305 Environmental Geoscience (3)  
 GO 460 Environmental Hydrology (3)  
 IS 175 Information Systems I (3)  
 MA 223 Elementary Probability & Stats (3)  
 UI 319 Science, Technology & Society (3)  
 UI 360 Recycling & Waste Management (3)

**Choose 3 Hours From:**

- EN 190 Writing about the Environment (3)  
 PL 245 Social Philosophy (3)  
 PS 280 Intro to Global Issues (3)  
 UI 339 North American Indians (3)  
 UI 347 Living in a Global Society (3)  
 UI 372 Earthquakes & Society (3)

**Choose 3 Hours From:**

- AG 201 World Food & Society (3)  
 AG 433 Agricultural & Food Policy (3)  
 BL 255 Legal Environment of Business (3)  
 EC 101 Economic Problems & Policy (3)  
 EC 215 Princ of Macroeconomics (3)  
 PS 230 American Public Policy (3)  
 PS 418 Public Policy Analysis (3)

**EXERCISE SCIENCE****22 Hours Required****Required Courses:**

- HL 231 Fitness Conditioning (3)  
 HL 331/031 Exercise Physiology (3)  
 HL 431 Fitness Assmt & Exercise Prog (4)  
 HL 460 Exercise Leadership (3)



**Choose 6 Hours From:**

FN 235 Nutrition for Health (3)

**OR**

FN 255 Nutrition I (3)

HL 332 Lifestyle Disease Risk Reduct (3)

HL 345 Resistance Trng Prin &amp; Prac (3)

HL 346 Weight Mgmt Prin &amp; Prac (3)

HL 510 Health Concerns of Aging (3)

PE 464 Kinesiology (3)

**Additional Requirements: 14-16 Hours**

BS 113/013 Anatomy &amp; Phys I (4)

BS 114/014 Anatomy &amp; Phys II (4)

CH 180 Chem in Our World (3)

**OR**

CH 181 Basic Princ of Chem (5)

**OR**

CH 185 General Chemistry (5)

MA 134 College Algebra (3)

**FAMILY ECONOMICS AND  
MANAGEMENT****18 Hours Required****Required Courses:**

CF 512 Family &amp; Comm Resources (3)

EC 101 Econ Principles &amp; Policies (3)

FE 200 Family Resource Management (3)

FE 400 Fam Resource Mgt Pract (3)

FI 351 Principles of Insurance (3)

UI 355 Consumer &amp; the Market (3)

**FAMILY STUDIES****18 Hours Required****Required Courses:**

CF 209 Intro to Family Systems (3)

CF 220 Young &amp; Middle Adulthood (3)

CF 340 Family Law, Advoc &amp; Policy (3)

CF 402 Marriage Interaction (3)

CF 430 Parent-Child Interaction (3)

CF 512 Family &amp; Comm Resources (3)

**FASHION ENTREPRENEURSHIP****15 Hours Required****Required Courses:**

BA 361 Prin of Entrepreneurship (3)

BA 551 Managing/Growing a New Venture (3)

BA 561 Bus Planning for a New Venture (3)

**Choose 6 Hours approved FA courses****FASHION MERCHANDISING****18 Hours Required****Required Courses:**

DS 114 Display Design (3)

FA 110 Intro to Fashion Merchandising (3)

FA 207 Textiles (3)

FA 230 Apparel Analysis (3)

FA 350 Apparel Aesthetics (3)

**Choose 6 Hours From:**

FA 300 Prof Image &amp; Behavior (2)

FA 415 Fashion Retailing (3)

FA 420 Specialty Market (3)

FA 450 Issues/Trends in Fash Merch (3)

FA 517 History of Costume (3)

FA 518 Soc Psych Aspects of Clothing (3)

**FINANCE****15 Hours Required****Required Courses:**

FI 361 Financial Management (3)

FI 364 Modern Financial Institution (3)

FI 368 Investments (3)

**Choose 6 Hours FI courses (300-500 level)****OR**

AC 375 Financial Statement Analysis (3)

**AND**

FI xxx (300-500 level) (3)

**FINE ARTS ENTREPRENEURSHIP****15 hours required****Required Courses:**AR/DA/MU/TH 245 Creating and Managing an Arts  
Career (3)

BA 361 Principles of Entrepreneurship (3)

BA 551 Managing and Growing a New Venture (3)

BA 561 Business Planning for New Ventures (3)

**Choose 3 Hours from:**

AR 352 Gallery and Museum Internship (3)

AR 399 Professional Practices in Art (3)

MU/TH 375 Theater Management (3)

**FRENCH****18 Hours Required****Required Courses:**

FR 100 French Language &amp; Culture I (3)

FR 120 French Language &amp; Culture II (3)

FR 200 French Language &amp; Culture III (3)

FR 220 French Literature (3)

**Choose 6 Hours FR courses (300-500 level)**

**GEOSCIENCE****15 Hours Required****Required Courses:**

- GO 110 Physical Geology (3)  
 UI 373 Earth/Life Thru Time (3)  
**Choose 6 hours GO courses (200-500 level)**  
**Choose 3 hours GO courses (400-500 level)**

**GERMAN****18 Hours Required****Required Courses:**

- GN 100 German Language & Culture I (3)  
 GN 120 German Language & Culture II (3)  
 GN 200 German Language & Culture III (3)  
 GN 220 German Literature (3)  
**Choose 6 Hours GN courses (300-400 level)**

**GERONTOLOGY****18 Hours Required****Required Courses:**

- CF 206 Intro to Gerontology (3)  
 CF 207 Gerontology Practicum I (3)  
 CF 518 Gerontology Practicum (3)  
 PY 329 Psychology of Death & Dying (3)  
 PY 525 Maturity & Aging (3)  
 UI 430 Aging Successfully (3)

**GLOBAL STUDIES****18 Hours Required****Required Course:**

- UI 450 Capstone Experience (3)  
**Choose 6 Hours From:**  
 AN 181 Intro to Cultural Anthropology (3)  
 GG 180 Cultural Geography (3)  
 PS 104 Comp Political Systems (3)  
 PS 280 Intro to Global Issues (3)  
 UI 308 Cult & Phys Landscapes (3)  
 WH 103 Modern Eur Civ (3)

**OR**

- WH 130 Latin American Civ (3)

**Choose 3 hours of upper division electives from an approved list**

*(See Dept of Global Cultures and Languages for Approved List of Electives)*

**Choose 3 hours of Study Abroad/internship to correspond with foreign language elective below**

- Choose 3 hours foreign language elective:**  
 CN 101 Beginning Chinese (3)  
 CN 102 Chinese II (3)

- FR 100 French Language & Culture I (3)  
 FR 120 French Language & Culture II (3)  
 FR 200 French Language & Culture III (3)  
 FR 220 French Literature (3)  
 GN 100 German Language & Culture I (3)  
 GN 120 German Language & Culture II (3)  
 GN 200 German Language & Culture III (3)  
 GN 220 German Literature (3)  
 JN 101 Japanese I (3)  
 JN 102 Japanese II (3)  
 SN 100 Spanish Language & Culture I (3)  
 SN 120 Spanish Language & Culture II (3)  
 SN 200 Spanish Language & Culture III (3)  
 SN 220 Hispanic Literature (3)

**GRAPHIC COMMUNICATIONS TECHNOLOGY****18 Hours Required****Required Courses:**

- GM 180 Intro to Tech Graphics (3)  
 GM 200 Vector & Bitmapped Graphics (3)  
 GM 282 Vector Graphics (3)  
 GM 380 3D Modeling & Animation Prod (3)

**Choose 6 Hours From One Option:****OPTION I**

- GM 386 Interactive Multimedia & Animation (3)  
 GM 480 3D Animation Pipeline (3)

**OPTION II**

- GM 320 Graphic User Interface (3)  
 GM 326 Interactive Multimedia (3)

**HEALTH MANAGEMENT ENTREPRENEURSHIP****15 Hours Required****Required Courses:**

- BA 361 Prin of Entrepreneurship (3)  
 BA 551 Managing/Growing a New Venture (3)  
 BA 561 Bus Planning for a New Venture (3)  
 HL 111 Intro to Health Management (3)  
 HL 471 Fitness Facility Administration (3)

**HEALTH PROMOTION****21 Hours Required****Required Courses:**

- HL 111 Intro to Health Management (3)  
 HL 120 Health Perspectives (3)  
 HL 260 Health Promotion Practicum (3)  
 HL 332 Lifestyle Disease Risk Reduction (3)  
 UI 354 Lifestyle Enhancement (3)

**Choose 6 Hours From:**

- FN 235 Nutrition for Health (3)
- HL 312 Sport and Exercise Pharmacology (3)
- HL 331 Exercise Physiology (3)

**HISTORIC PRESERVATION**

**21 Hours Required**

**Required Courses:**

- HP 100 Intro to Historic Preservation (3)
- HP 200 Intro to Tech of Local History (3)
- HP 585 History of Amer Architecture (3)
- US 105 American History I (3)
- US 107 American History II (3)

**Choose 6 Hours From:**

*(3 Hours must be HP prefix)*

- GH 520 Techniques of Oral History (3)
- HP 405 Archives & Spec Collec Studies (3)
- HP 410 Museum Studies (3)
- HP 420 Historic Site Admin (3)
- HP 450 Problems in Hist Pres (3)
- HP 540 Topics in Hist Pres (3)
- HP 580 Hist of Am Bldg Matls (3)
- HP 588 Leg/Econ Princ of Historic Pres (3)
- HP 589 Hist Pres Based Econ Revit (3)
- UI 313 African American Experience (3)
- UI 446 Civil Rights Movement (3)
- US 360 Women in American History (3)
- US 525 American Urban History (3)

**HISTORY**

**21 Hours Required**

- EH 300-599 (3)
- US 300-599 (3)
- WH 300-599 (3)
- EH/GH/HP/US/WH 300-599 (6)

**Choose an additional 6 Hours of EH, GH, US, WH prefix courses – any level**

**HORTICULTURE**

**15 Hours Required**

**Required Courses:**

- HO 110 Intro to Horticulture (3)
- HO 130 Plant ID & Use I (3)
- HO 230 Plant Ident & Use II (3)
- HO 3xx-5xx Horticulture electives (6)

**HOSPITALITY MANAGEMENT**

**18 Hours Required**

**Required Courses:**

- FN 150 Intro to Hospitality Mgmt (3)

- FN 205 Selection & Preparation of Food (3)
- FN 270 Hotel & Restaurant Operation (3)
- FN 304 Food, Bev & Labor Cost Cntrls (3)
- FN 390 Hosp Sales & Marketing (3)
- FN 406 Hospitality and Institution Admin (3)

**HUMAN RESOURCE MANAGEMENT**

**15 Hours Required**

**Required Courses:**

- MG 301 Principles of Management (3)
- MG 356 Found of Human Resource Mgmt (3)
- MG 546 Acquiring & Compensating Talent (3)
- MG 566 Legal & Union Issues in HR (3)

**Choose 3 Hours From\*:**

- MG 354 Bus Negotiation: Conc/Practice (3)
- MG 456 Topics in Human Resource Mgt (3)
- MG 470 Leadership in Management (3)
- MG 526 Manag & Develop Talent (3)
- MG 550 Improving Team Performance (3)

*\*Cannot double count electives in other Management minors*

**INDUSTRIAL AND ENGINEERING TECHNOLOGY ENTREPRENEURSHIP**

**15 Hours Required**

**Required Courses:**

- BA 361 Prin of Entrepreneurship (3)
- BA 551 Manag & Grow New Ventures(3)
- BA 561 Bus Planning for New Ventures (3)

**Choose one six-hour option:**

**Computer and Multimedia Graphics**

- GM 180 Intro to Technical Graphics (3)
- GM 200 Vector/Bitmap Graphics for Ind (3)

**Construction Management and Design**

- CM 315 Constr Contracts & Legal Iss (3)
- CM 410 Construction Proj Admin (3)

**Electrical and Controls (3)**

- ET 245 Logic Circuits (3)
- ET 366 Microcontrollers (3)

**Facilities Management and Sustainability**

- FM 504 Facilities Management (3)
- FM 564 Sustain Fac Plan & Design (3)

**Industrial and Safety Management**

- IM 313 Facilities Planning (3)
- IM 417 Manufact Resource Analysis (3)

**Mechanical and Manufacturing**

- MN 221 Solid Model & Rapid Prototyp (3)
- MN 304 Indus Matls & Processes II (3)

**Sustainability Energy Systems Management**

- ET 426 Sustainable Energy Technology (3)
- FM 565 Building Energy Management (3)

**INDUSTRIAL MANAGEMENT****15 Hours Required****Required Courses:**

- IM 301 Industrial Safety Supervision (3)  
 IM 311 Statistical Process Control (3)  
 IM 419 Industrial Supervision (3)

**Choose 6 Hours From:**

- IM 313 Facilities Planning (3)  
 IM 315 Work Measurement (3)  
 IM 411 Total Quality Assurance (3)  
 IM 417 Manuf Resource Analysis (3)

**INFORMATION SYSTEMS****15 Hours Required****Required Courses:**

- IS 175 Information Systems I (3)

**Choose 6 Hours From:**

- IS 130 Visual Basic Programming I (3)  
 IS 245 Web Devlpmnt & Security (3)  
 IS 275 Information Systems II (3)

**Choose 6 hours of IS prefix courses at the 300-500 level****INTERIOR DESIGN****18 hours required****Required Courses:**

- DS 001 Portfolio Review (0)  
 DS 104 Introduction to Interior Design (3)  
 DS 111 Design Process (3)  
 DS 211 Basic Kitchen & Bath Design (3)  
 DS 220 Design Communications (3)

**Choose 6 Hours From:**

- DS 313 Sustainable Design (3)  
 DS 314 Multicultural Design (3)  
 DS 410 Hospitality Design (3)  
 DS 412 Contract Design (3)

**INTERNATIONAL BUSINESS****18 Hours Required**

- EC 580 International Economics (3)  
 FI 540 International Finance (3)  
 MG 560 International Management (3)  
 MK 560 International Marketing (3)  
 UI 343 Transcultural Experience (3)

**Choose 3 Hours From:**

- AC 540 International Persp on Acct (3)  
 MK 478 Global Logistics (3)  
 UI 322 International Political Economy (3)  
 UI 349 Comparative Economics Systems (3)

**LATIN AMERICAN STUDIES****18 Hours Required****Required Courses:**

- SN xxx Spanish Language (6)  
 SN 300 Spanish Am Culture (3)

**OR**

- WH 130 Latin American Civ (3)

**Choose 9 Hours From:**

- AN 360 Mesoamerica (3)  
 EH 520 Hist/Spain & Portugal (3)  
 PS 375 Politics in Latin Am (3)  
 SN 306 Civilization of Spain (3)  
 WH 520 Colonial Latin Am (3)  
 WH 522 History/South Am (3)  
 WH 524 History of Mexico (3)  
 xx 300-500 Latin American Literature Course (3)

**LITERATURE****15 Hours Required****Required Courses:**

- LI 2xx Any Lit Expr course/LI prefix (3)  
 LI 260 English Literature I (3)

**OR**

- LI 261 English Literature II (3)  
 LI 270 American Literature I (3)

**OR**

- LI 271 American Literature II (3)

**Choose 6 Hours EN 435, LI courses (300-500 level), UI 332, UI 341, UI 431, UI 432, or UI 435 which represent more than one genre (i.e., not 2 novels courses)****MANAGEMENT****15 Hours Required****Required Courses:**

- MG 301 Principles of Management (3)  
 MG 462 Organization Theory & Design (3)  
 MG 550 Improving Team Performance (3)

**Choose 6 Hours From\*:**

- BA 361 Princ of Entrepreneurship (3)  
 BA 531 Imag, Creativity & Innovation (3)  
 IM 411 Total Quality Assurance (3)  
 MG 354 Bus Negotiation: Conc/Practice (3)  
 MG 356 Found of Human Resource Mgmt (3)  
 MG 457 Organizational Behavior (3)  
 MG 470 Leadership in Management (3)  
 MG 560 International Management (3)

*\*Cannot double count electives in other Management minors*

## MARKETING: INTEGRATED MARKETING COMMUNICATIONS

**15 Hours Required**

**Required Courses:**

- MK 301 Principles of Marketing (3)
- MK 341 Public Relations (3)
- MK 342 Professional Selling (3)
- MK 343 Advertising & Promotion (3)
- MK 443 Integrated Mktg Comm Practicum (3)

## MARKETING: MARKETING MANAGEMENT

**15 Hours Required**

**Required Courses:**

- MK 301 Principles of Marketing (3)
- MK 343 Advertising & Promotion (3)
- MK 346 Distribution Management (3)
- MK 348 Product & Pricing Strategy (3)

**Choose any MK course except MK 345, MK 449 and MK 473 (3)\***

*\*Cannot double count electives in other Marketing minors*

## MARKETING: RETAIL MANAGEMENT

**15 Hours Required**

**Required Courses:**

- MK 301 Principles of Marketing (3)
- MK 343 Advertising & Promotion (3)
- MK 349 Retail Management (3)

**Choose 6 hours of MK courses except MK 345, MK 449 and MK 473\***

*\*Cannot double count electives in other Marketing minors*

## MARKETING: SALES MANAGEMENT

**15 Hours Required**

**Required Courses:**

- MK 301 Principles of Marketing (3)
- MK 342 Professional Selling (3)
- MK 344 Consumer Behavior (3)
- MK 447 Sales Management (3)

**Choose any MK course except MK 345, MK 449 and MK 473 (3)\***

*\*Cannot double count electives in other Marketing minors*

## MASS COMMUNICATION

**18 Hours Required**

*(A grade of 'C' or higher is required for each course within the minor.)*

**Required Courses:**

- MC 101 Mass Communication & Society (3)
- MC 401 Communication Law (3)

**Choose 12 Hours of MC Courses. (All prerequisites must be met for these electives.)**

## MATHEMATICS

**15 Hours Required**

**Required Course:**

- MA 140 Analytic Geometry & Calc I (5)

**10 hours in mathematics (consisting of MA 138, MA 145, or courses numbered MA 223 & above with the exception of MA 230, MA 318 & MA 418) including 6 hours at the 300-500 level.**

## MICROBIOLOGY

**21 Hours Required**

**Required Courses:**

- BI 151 Biological Reasoning (3)
- BI 152 Intro to Scientific Investigation (1)
- BI 153 Intro to Organismal Biology (4)
- BI 154 Genetics & Cell Biology (4)
- BI 200 General Microbiology (3)

**Choose 6 Hours From:**

- BI 384 Readings in Biology (1)
- BI 441 Virology (3)
- BI 442 Immunology (3)
- BI 443 Epidemiology (3)
- BI 445 Microbial Physiology (3)
- BI 485 Topics in Biology (3)
- BI 493 Readings Biology (2)
- BI 543/544 Pathogenic Microbiology (3)
- BI 589-591 Biological Research (1-3)

## MUSIC

**19 Hours Required**

**Required Courses:**

- MM 101 Theories of Music in Culture (3)
- MM 105 Aural Skills (1)
- MU 110 Recitals/Concerts (2 semesters) (0)
- MU 181 Musical Encounters (3)

**OR**

- MU 182 Music: An Artistic Expression (3)
- MU 3xx Music Ensembles (2)
- UI 310 American Musical Experience (3)

**Choose 7 Hours From:**

- ME xxx Instrumental Techniques (1-2)
- MH 251 Hist & Lit of Music to 1827 (3)

**OR**

- MH 252 Evol/Musical Style Since 1827 (3)

MM 102 Basic Harmony & Form (3)  
 MM 106 Aural Skills II (1)  
 MP xxx Applied Music (2-5)  
 MU 151 Functional Piano I (or equiv) (1)

**OR**

MU 152 Functional Piano II (or equiv) (1)  
 MU 190 Jazz Appreciation (3)  
 MU xxx Music Ensembles (2)  
 MU 430 Literature: Applied Area (2)  
 MU 432 Pedagogy: Applied Area (2)  
 UI 315 Electronics & Comptrs in Music (3)  
 UI 402 Music in World Cultures (3)

**NUTRITION**

**18 Hours Required**

**Required Courses:**

FN 205 Selection & Prep of Foods (3)  
 FN 235 Nutrition for Health (3)  
 FN 355 Lifespan Nutrition (3)  
 FN 540 Community Nutrition (3)

**Choose 6 Hours From:**

FN 255 Nutrition I (3)  
 FN 370 Nutrition Assessment (3)  
 FN 401 Sports Nutrition (3)  
 FN 502 Nutrition II (3)  
 HE 520 Tech Tchgr Ntr & Health Ed (3)

**OUTDOOR ADVENTURE LEADERSHIP**

**18 Hours Required**

RC 150 Outdoor Living Skills (3)  
 RC 151 Outdoor Adventure Skills (3)  
 RC 250 Found of Outdoor Recreation (3)  
 RC 310 Outdoor Leadership (3)  
 RC 450 Outdoor Adventure as Treatment (3)

**Choose 3 Hours From:**

RC 119 Outdoor Adventure Special Topics (1-3)  
 RC 316 Special Topics in Health & Leisure (1-3)  
 RC 812 Outdoor Adventure (3)

**PHILOSOPHY**

**18 Hours Required**

**Required Courses:**

PL 120 Symbolic Logic I (3)  
 PL 300 Ancient Philosophy (3)  
 PL 390 Contemporary Philosophy (3)

**Choose 3 Hours From:**

PL 110 Readings in Philosophy (3)  
 PL 203 Aesthetics & the Arts (3)  
 PL 204 Ethical Theory (3)

PL 245 Social Philosophy (3)  
 RS 101 World Religions (3)

**Choose 6 Hours PL courses (300-400 level) or any departmentally approved courses with a UI prefix**

**PHYSICS**

**15 Hours Required**

**Required Courses:**

PH 120/020 Introductory Physics I (5)

**OR**

PH 230/030 General Physics I (5)  
 PH 121/021 Introductory Physics II (5)

**OR**

PH 231/031 General Physics II (5)

**Choose 5 Hours EP or PH electives (300-500 level, including UI 330)**

**POLITICAL SCIENCE**

**15 Hours Required**

**Required Courses:**

PS 103 U.S. Political Systems (3)

**OR**

PS 104 Comparative Political Systems (3)  
 PS 240 Intro to Political Science (3)  
 PS 470 Politics of the Developed World (3)

**Choose 6 Hours PS courses (At least 2 hours must be 300-500 level)**

**PSYCHOLOGY: APPLIED**

**18 Hours Required**

**Required Courses:**

PY 102 Introduction to Psychology (3)  
 PY 250 Applied Psychology (3)  
 PY 358 Social Psychology (3)

**Choose 9 Hours From:**

PY 251 Indus/Organiz Psychology (3)  
 PY 359 Psychology & the Law (3)  
 PY 531 Psychological Testing (3)  
 UI 354 Lifestyle Enhancement (3)

**PSYCHOLOGY: DEVELOPMENTAL**

**18 Hours Required**

**Required Courses:**

PY 102 Introduction to Psychology (3)  
 PY 120 The Child:Devel/Concept/Adlsc (3)

**OR**

PY 222 Development of the Adolescent (3)  
 PY 220 Psych Devel Across Life Span (3)  
 PY 525 Maturity & Aging (3)

**Choose 3 Hours From:**

- PY 325 Psych Devel of the Family (3)  
 PY 444 Childhood Psychopathology (3)

**Choose 3 Hours From:**

- PY 329/529 Psychology of Death & Dying (3)  
 PY 521 Advanced Child Development (3)

**PSYCHOLOGY: GENERAL****18 Hours Required****Required Courses:**

- PY 102 Intro to Psychology (3)

**Choose 3 Hours From:**

- PY 362 Learning & Memory (3)  
 PY 366 Intro to Sensation & Perception (3)  
 PY 466 Intro to Physiological Psychology (3)

**Choose 3 Hours From:**

- PY 353 Social Cognition (3)  
 PY 364 Comparative Cognition (3)  
 PY 460 Cognitive Processes (3)

**Choose 3 Hours From:**

- PY 120 The Child (3)  
 PY 220 Psychological Development Across the Lifespan (3)

- PY 222 Development of the Adolescent (3)

- PY 325 Psych Development of the Family (3)

- PY 525 Maturity & Aging (3)

**Choose 3 Hours From:**

- PY 432 Intro to Personality (3)  
 PY 440 Abnormal Psychology (3)  
 PY 441 Intro to Clinical Psychology (3)

**Choose 3 Hours From:**

- PY 250 Applied Psychology (3)  
 PY 251 Industrial/Organizational Psychology (3)  
 PY 358 Social Psychology (3)

**PSYCHOLOGY: PSYCHOLOGICAL SERVICES****18 Hours Required****Required Courses:**

- PY 102 Introduction to Psychology (3)  
 PY 432 Intro to Personality (3)  
 PY 440 Abnormal Psychology (3)

**Choose 9 Hours From:**

- PY 358 Social Psychology (3)  
 PY 359 Psychology & the Law (3)  
 PY 441 Intro to Clinical Psychology (3)  
 PY 442 Psychotherapy (3)  
 PY 444 Childhood Psychopathology (3)  
 PY 531 Psychological Testing (3)

**PUBLIC ADMINISTRATION****18 Hours Required****Required Courses:**

- PS 230 American Public Policy (3)  
 PS 384 Political Science Internship (3)  
 PS 402 Fund of Public Administration (3)  
 PS 403 Public Personnel Administration (3)  
 PS 415 Government Budgeting Process (3)

**Choose 3 Hours From:**

- EC 525 Public Policy Economics (3)  
 EC 561 Managerial Economics (3)  
 MG 301 Principles of Management (3)  
 PS 418 Public Policy Analysis (3)  
 PS 425 Admin Law & Procedure (3)  
 PY 450 Organizations as Open Systems (3)

**RECREATION****15 Hours Required****Required Courses:**

- RC 140 Intro to Recreation Services (3)  
 RC 288 Practicum in Rec Services (3)  
 RC 380 Programming for Rec Svcs (3)

**Choose 3 Hours From:**

- RC 210 Camp Leadership (3)  
 RC 220 Leadership & Group Dynamics (3)  
 RC 250 Found of Outdoor Recreation (3)  
 RC 260 Intro to Therapeutic Recreation (3)  
 RC 270 Commercial Recreation (3)

**Choose 3 Hours From:**

- RC 360 Thrptic & Adapted Rec Svcs (3)  
 RC 385 Rec Facilities Planning & Mgmt (3)  
 RC 405 Trends & Issues in Rec & Leisure (3)  
 RC 420 Organ & Admin of Rec Services (3)

**RELIGION****18 Hours Required****Required Courses:**

- PL 499 Independent Study in Philosophy (3)  
 RS 101 World Religions (3)  
 UI 336 Religion in America (3)

**Choose 3 Hours From:**

- LI 222 Mythic Dimensions of Literature (3)  
 RS 201 New Testament Literature (3)  
 RS 202 Old Testament Literature (3)

**Choose 6 Hours From:**

- AN 375 Primitive Religions (3)  
 PL 340 Philosophy of Religion (3)  
 RS 350 Religious Topics & Issues (3)  
 UI 415 Science & Religion (3)

## SMALL PRESS PUBLISHING

### 18 Hours Required

#### Required Courses:

- EN 275 Intro to Creative Writing (3)
- EN 311 Literary Manuscript Editing Pract (3)
- EN 435 Internship in English (3)
- GM 180 Intro to Indus Graphics (3)
- LI 301 Small-Press Publishing (3)

#### Choose 3 Hours From:

- AR 319 Intro to Graphic Design (3)
- AR 322 Typography (3)
- EN 470 Adv Creative Writ: Poetry (3)
- EN 478 Adv Creative Writ: Fiction (3)
- GM 282 Vector and Text Graphics (3)
- MC 310 Advertising Comm Strategies (3)
- MK 301 Principles of Marketing (3)

## SOCIAL REHABILITATION AND TREATMENT

### 21 Hours Required

#### Required Courses:

- CJ 440 Theory/Methods of Offndr Rehab (3)
- SR 444 Trtmt Strat: Alch/Drug Abuse (3)
- SR 448 Juv Just Trtmt/Intervention Strat (3)
- SW 110 Intro to Social Work (3)

#### OR

- RC 260 Intro to Therapeutic Recreation (3)

#### Choose 3 Hours From:

- PY 440 Abnormal Psychology (3)
- PY 441 Intro to Clinical Psychology (3)
- PY 444 Childhood Psychopathology (3)

#### Choose 6 Hours From:

- PY 325 Psych Devel of the Family (3)
- PY 440 Abnormal Psychology (3) (If not chosen above)
- RC 260 Intro to Therapeutic Recreation (3)
- SW 315 Social Work Intervention (3)

## SOCIAL WORK

### 15 Hours Required

#### Required Courses:

- SW 110 Intro to Social Work (3)
- SW 207 Undrstndng Cultrl/Soc Diversity (3)

#### Choose 3 Hours From:

- SW 351 Child Welfare (3)
- SW 352 Social Work with the Aged (3)
- SW 353 Child Development (3)
- SW 354 Crisis Intervention (3)
- SW 355 Special Topics in Social Work (3)
- SW 356 Social Work in Mental Health (3)
- SW 389 Ind Study in Social Work (3)

### Choose One Area of Emphasis (6 Hours):

#### SOCIAL WELFARE

- SW 201 Social & Economic Justice (3)
- SW 310 Social Welfare Policy & Issues (3)

#### SOCIAL WORK PRACTICE

- SW 121 Helping Skills for the Human Svcs (3)
- SW 315 Social Work Intervention (3)

## SOCIOLOGY

### 15 Hours Required

#### Required Course:

- SO 102 Society/Culture/Social Behr (3)

#### OR

- SO 120 Cities and Society (3)

### Choose 12 Hours SO courses (At least 6 Hours must be 300-500 level)

## SOILS

### 16 Hours Required

#### Required Courses:

- AG 551 Water Management (3)
- AO 120 Plant Science (3)
- AO 125 Plant Science Lab (1)
- AO 215 Soils (3)
- AO 427 Soil Fertility & Plant Nutrition (3)
- AO 555 Soil Classification/Resource Mgt (3)

## SPANISH

### 18 Hours Required

#### Required Courses:

- SN 100 Spanish Language & Culture I (3)
- SN 120 Spanish Language & Culture II (3)
- SN 200 Spanish Language & Culture III (3)
- SN 220 Hispanic Literature (3)

### Choose 6 Hours SN courses (300-500 level)

## SPORT MANAGEMENT

### 15 Hours Required

#### Required Courses:

- PE 201 Sport & Society (3)
- SM 220 Intro to Sport Management (3)
- SM 360 Sporting Event Management (3)
- SM 540 Legal Aspects of Sport & Phys Activity (3)

#### Select one course from the following:

- SM 340 Sport Ethics (3)
- SM 455 Sport-Related Venue Dsgn/Operation (3)
- SM 460 Fund of Sport Delivery Systems (3)
- SM 570 Mgmt & Leadership in Sport Org (3)



**SUBSTANCE ABUSE PREVENTION****15 Hours Required****Required Courses:**

- HL 1xx Foundations of Prevention (3)  
 HL 4xx Substance Abuse/Addict in Public Hlth (3)  
 UI 300 Drugs & Behavior (3)

**Choose 3 hours:**

- HL 312 Sport & Exercise Pharmacology (3)  
 HL320 Community Health (3)  
 HL526 Health Behavior Change (3)  
 RC 288 Practicum (3)

**Choose 3 hours:**

- PY 151 Social Decision Making (3)  
 PY 222 Development of the Adolescent (3)  
 RC 245 Mentoring Princ/Pract (3)  
 SR 444 Treatment Strategies (3)

**THEATRE: ACTING****23 Hours Required****Required Courses:**

- TH/DA 105 Rehearsal & Production (1)  
 TH 218 Acting I (6)  
 TH/DA 305 Rehearsal & Production (1)  
 TH 316 Acting II (6)  
 TH 321 Stage Combat I (3)  
 TH 416 Acting III (3)

**Choose 3 Hours From:**

- TH 317 Voice for the Stage (3)  
 TH 319 Acting for Film & TV (3)  
 TH 431 Stage Combat II (3)

**THEATRE: GENERAL****23 Hours Required****Required Courses:**

- TH/DA 105 Rehearsal & Production (1)  
 TH 155 Makeup (3)  
 TH 218 Acting I (3)  
 TH 231 Stagecraft I (3)  
 TH 251 Costume Construction (3)  
 TH/DA 305 Rehearsal & Production (1)

**Choose 3 hours From:**

- TH 265 Drawing for the Theatre (3)  
 TH 316 Acting II (3)

**Choose 6 Hours From:**

- TH 375 Performing Arts Mgmt (3)  
 TH 385 Directing I (3)  
 TH 395 Period & Style (3)  
 TH 490 Theatre History I (3)  
 TH 495 Theatre History II (3)

**THEATRE: TECHNICAL****23 Hours Required****Required Courses:**

- TH/DA 105 Rehearsal & Production (1)  
 TH 155 Makeup (3)  
 TH 231 Stagecraft I (3)  
 TH 251 Costume Construction (3)  
 TH 265 Drawing for the Theatre (3)  
 TH/DA 305 Rehearsal & Production (1)

**Choose 9 Hours From:**

- TH 331 Stagecraft II (3)  
 TH 350 Stage Lighting I (3)  
 TH 351 Costume Design I (3)  
 TH 361 Scene Painting (3)  
 TH 371 Scenic Design I (3)  
 TH 375 Performing Arts Mgmt (3)  
 TH 386 Sound Design (3)  
 TH 395 Period & Style (3)  
 TH 450 Stage Lighting II (3)  
 TH 451 Costume Design II (3)  
 TH 471 Scenic Design II (3)

**WOMEN'S STUDIES****15 Hours Required****Required Courses:**

- WS 100 Introduction to Women's Studies (3)  
 WS 300 Seminar: Issues in Women's Studies (3)

**Choose 9 Hours From:**

- LI 587 Women and Madness (3)  
 UI 303 The Female Experience (3)  
 UI 332 Images of Women in Literature (3)  
 UI 406 Transforming the Female Experience (3)  
 UI 4xx Feminist Spirituality (3)  
 US 360 Women in American History (3)

**WRITING****15 Hours Required****Required Courses:**

- EN 140 Rhetoric & Critical Thinking (3)  
 EN 376 Advanced Composition (3)  
 EN 550 Style in Writing (3)

**Choose 6 Hours From One Option:****EXPOSITORY WRITING**

- EN 301 Writing Science/Technology (3)  
 EN 435 Internship (3)

**CREATIVE WRITING**

- EN 275 Intro to Creative Writing (3)  
 EN 470 Adv Creative Writing: Poetry (3)  
 EN 478 Adv Creative Writing: Fiction (3)

**ZOOLOGY****21 Hours Required****Required Courses:**

- BI 151 Biological Reasoning (3)  
 BI 152 Intro to Scientific Investigation (1)  
 BI 153 Intro to Organismal Biology (4)  
 BI 154 Genetics & Cell Biology (4)  
 ZO 200 Animal Biology (3)

**Choose 6 Hours From:**

- BI 332 General Ecology (3)  
 BI 384 Readings in Biology (1)  
 BI 485 Topics in Biology (3)  
 BI 493 Readings in Biology (2)  
 BI 589-591 Biological Research (1-3)  
 ZO 315 Comparative Anatomy (3)  
 ZO 414 Developmental Biology (3)  
 ZO 420 Animal Behavior (3)  
 ZO 441 Parasitology (3)  
 ZO 459 Mammalogy (3)  
 ZO 460 Herpetology (3)  
 ZO 465 Entomology (3)  
 ZO 466 Ornithology (3)  
 ZO 469 Vertebrate Adaptations (3)  
 ZO 478 Ichthyology (3)

**CERTIFICATE PROGRAMS**

Short-term curricula are provided for students not planning to complete a four-year degree. Earned credit may be applicable toward later completion of a degree. Students completing a short-term program are awarded the appropriate certificate at that semester's graduation ceremony.

**ESOL****15 Hours Required**

- EN 378 Grammars of English (3)

**OR**

- UI 501 Prin of Language (3)  
 EN 381 Language Acquisition (3)

**OR**

- TL 525 Eng Sec/For Lang: Learn/Teach (3)

**OR**

- EX 302 Lang Dev of Except Child (3)  
 EN 486 Sociolinguistics (3)

**OR**

- SE 275/EL 274 Diversity in Am Schools (3)  
 TL 425 Matl & Assmt for ESL Clsrm (3)

**OR**

- TL 530 Practicum for TESOL (3)  
 TL 585 Methd/Tech for Teach ESOL (3)

**OR**

- EN 315 Found of Teaching ELLs (3)

**TEACHING ASSISTANT  
PREPARATION- ELEMENTARY/  
SPECIAL EDUCATION****63-64 Hours****Required Courses:**

- BS 118 Intro to Process Science (1)  
 BS 218 Bio Science: Process Approach (3)  
 EC 101 Econ Problems/Policies (3)  
 ED 250 Intro to Education (2)\*  
 ED 251 Intro to Technology (2)\*  
 EF 304 Found of School & Society (2)\*  
 EL 315 Theories/Learning/Mgmt (2)  
 EN 100 English Composition I (3)\*  
 EN 140 Rhetoric/Critical Thinking (3)\*  
 HL 120 Health Perspectives (3)

**OR**

- HL 210 Health & Safety (2)  
 LI 243 Children's Literature (3)  
 MA 118 Mathematics I (3)  
 MA 318 Mathematics II for Elem Teachers (3)  
 MA 418 Geometry for Elem Teachers (3)  
 MU 356 Music Skills/Elem Teachers (1)  
 PH 218 Physical Science: Process Approach (3)  
 PS 103 US Political Systems (3)  
 PY/CF 120 The Child (3)\*  
 SC 105 Fund of Oral Communication (3)\*  
 UI 100/CL001/CL 002 First Year Seminar (3)  
 US 105 American History I (3)

**OR**

- US 107 American History II (3)  
 UI 308 Physical/Cultural Landscape (3)  
 UI 318 Earth Science: Process Approach (3)  
 xx xxx Artistic Expression (3)

*\*C or better required*

## TEACHING ASSISTANT PREPARATION- MIDDLE/SECONDARY EDUCATION

### 63-65 Hours

#### Required Courses:

- ED 250 Intro to Education (2)\*
- ED 251 Intro to Technology (2)\*
- EF 304 Found of School & Society (2)\*
- EN 100 English Composition I (3)\*
- EN 140 Rhetoric/Critical Thinking (3)\*
- MU 356 Music Skills/Elem Teachers (1)
- PS 103 US Political Systems (3)
- PY 222 Devlp of the Adolescent (3)\*
- SC 105 Fund of Oral Communication (3)\*
- UI 100/CL001/CL 002 First Year Seminar (3)
- UI 3xx Interdisciplinary Studies course (3)
- US 105 American History I (3)

#### OR

- US 107 American History II (3)
- xx xxx Artistic Expression (3)
- xx xxx Economic Systems (EC xxx) (3)
- xx xxx Literary Expression (LI xxx) (3)
- xx xxx Living Systems (BI xxx, BS xxx or FN 235) (3)
- xx xxx Logical Systems (MA 123 or MA 134 or MA 155) (3)
- xx xxx Physical Systems (CH xxx, GO xxx, PH xxx) (3-5)

Subject Matter Concentration Area: Choose from Art, Biology, Business, Chemistry, English, Family & Consumer Sciences, Industrial Education, Mathematics, Music, Physical Education, Social Studies, Spanish, (etc.) (15)

*\*C or better required*



# *Course Listings*

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**COURSE LISTINGS****COURSES ARE LISTED ALPHABETICALLY  
BY NAME OF DISCIPLINE**

*(Course numbers which have been changed since the 2013 BULLETIN are listed in parenthesis.)*

**Accounting (AC)**  
**Administrative Services (AD)**  
**Aerospace Studies (AS)**  
**Agriculture (AG)**  
**Agronomy (AO)**  
**Animal Science (AY)**  
**Anthropology (AI, AN)**  
**Art (AR)**  
**Art History (AH)**  
**Biological Sciences (BS)**  
**Biology (BI)**  
**Biology Gulf Coast Research Laboratory**  
**Biotechnology (BT)**  
**Botany (BO)**  
**Business Administration (BA)**  
**Business Law (BL)**  
**Career Linkages (CL)**  
**Chemistry (CH)**  
**Child & Family (CF)**  
**Chinese (CN)**  
**Coaching Education (CG)**  
**Commercial Photography (PG)**  
**Communication Disorders (CD)**  
**Communication Studies (SC)**  
**Computer and Multimedia Graphics (GM)**  
**Computer Science (CS)**  
**Construction Management (CM)**  
**Criminal Justice (CJ, CO, LE)**  
**Cybersecurity (CY)**  
**Dance (DA)**  
**Early Childhood Education (CE)**  
**Economics (EC)**  
**Education (ED)**  
**Educational Foundations (EF)**  
**Electronics Technology (ET)**  
**Elementary Education (EL)**  
**Engineering Physics (EP)**  
**English (EN)**  
**Environmental Science (EV)**  
**Exceptional Child Education (EX)**  
**Facilities Management (FM)**  
**Family Economics & Management (FE)**  
**Fashion Merchandising (FA)**  
**Finance (FI)**  
**Food & Nutrition (FN)**  
**Foreign Language (FL)**  
**Forensic Science (FS)**  
**French (FR)**  
**Geography (GG)**  
**Geosciences (GO)**  
**German (GN)**  
**Health Management (HL)**  
**Historic Preservation (HP)**  
**History, European (EH)**  
**History, General (GH)**  
**History, United States (US)**  
**History, World (WH)**  
**Horticulture (HO)**  
**Human Environmental Studies (HE)**  
**Industrial Education (IE)**  
**Industrial Management (IM)**  
**Information Systems (IS)**  
**Interior Design (DS)**  
**International Education (IN)**  
**Japanese (JN)**  
**Literature (LI)**  
**Management (MG)**  
**Management Information Systems (MI)**  
**Manufacturing Engineering Technology (MN)**  
**Marketing (MK)**  
**Mass Communication (MC)**  
**Mathematics (MA)**  
**Medical Technology (MT)**  
**Music (ME, MH, MM, MP, MU)**  
**Nursing Clinical (NC)**  
**Nursing (NS)**  
**Philosophy (PL)**  
**Physical Activity (AT)**  
**Physical Education (PE)**  
**Physics (PH)**  
**Political Science (PI, PS)**  
**Psychology (PY)**  
**Quantitative Methods (QM)**  
**Recreation (RC)**  
**Religion (RS)**  
**Secondary Education (SE)**  
**Social Rehabilitation (SR)**  
**Social Science (OS)**  
**Social Studies Education (SS)**  
**Social Work (HS, SW)**  
**Sociology (SI, SO)**  
**Spanish (SN)**  
**Sport Management (SM)**  
**Telecommunications and Computer Networking (TN)**  
**TESOL (TL)**  
**Theatre (TH)**  
**University Studies (IU, UI)**  
**Women's Studies (WS)**  
**Writing Proficiency (WP)**  
**Zoology (ZO)**

**ACCOUNTING (AC)**

**AC 221. Principles of Accounting I.** A study of principles and procedures of accounting. The reporting of assets, liabilities, revenues, and expenses are detailed. Prerequisites: AD 101 and MA 134 with minimum grade of 'C'; sophomore standing. (3)

**AC 222. Principles of Accounting II.** Examines principles and procedures of accounting. Equity, cash flows, cost-volume-profit and performance analysis, budgeting and product costing are detailed. Prerequisite: AC 221 with minimum grade of 'C.' (3)

**AC 321. Financial Accounting and Reporting I.** Theory and procedures concerning financial accounting and reporting. Prerequisite: AC 222 with minimum grade of 'B'; or consent of department chairperson. (3)

**AC 330. Accounting Information Systems.** Analysis of accounting information systems and business processes. Emphasis on documentation, controls, transaction cycles, and spreadsheet/general ledger applications. Prerequisite: AC 222 with minimum grade of 'C.' (3)

**AC 331. Cost Accounting and Analysis.** General principles of cost management systems; job order, process and standard costing; budgeting; responsibility accounting; and performance evaluation. Prerequisite: AC 222 with minimum grade of 'C.' (3)

**AC 332. Financial Accounting and Reporting II.** Theory and procedures concerning revenue recognition, investments, stockholders' equity, tax allocation, EPS, pensions, leases, accounting changes, and statement of cash flows. Prerequisite: AC 321 with minimum grade of 'C.' (3)

**AC 375. Financial Statement Analysis.** Examines the primary financial statements. Topics include user objectives, an overview of analytical tools and techniques, and qualitative vs. quantitative judgments. Prerequisite: FI 361 with minimum grade of 'C'. No credit given toward Accounting major. (3)

**AC 435. Taxation of Individuals.** An examination of federal income taxes with an emphasis on current tax laws applicable to individual income taxpayers. Prerequisite: AC 321 with minimum grade of 'C' or consent of instructor. (3)

**AC 437. Auditing and Assurance Services.** An introduction to financial auditing; authoritative pronouncements, legal liability, code of ethical conduct, audit procedures, and the types of audit opinions. Prerequisite: AC 321 with minimum grade of 'C'. (3)

**AC 491-493. Independent Study in Accounting.** Intensive study of special problems related to accounting.

Prerequisites: A minimum of 75 hours completed; a minimum cumulative grade point average of 2.50 overall or 2.75 in the department; a minimum of 10 semester hours in the department completed; consent of the department chairperson. (1-3)

**AC 534. Financial Accounting and Reporting III.** Business combinations, multinational enterprises, partnerships, consolidated statements and not-for-profit accounting. Prerequisite: AC 332 with minimum grade of 'C'. (3)

**AC 537. Advanced Auditing & Assurance Services.** An in depth examination of auditor legal liability, ethics, analytical procedures, statistical sampling, and audit research using electronic databases and the Internet. Prerequisite: AC 437 with minimum grade of 'C.' (3)

**AC 540. International Perspectives of Accounting.** An examination of accounting rules and practices of multinational enterprises throughout the world with special emphasis on harmonization, standardization, and disclosure requirements. Accounting majors must select this course to satisfy the Business Administration core requirement for an international course unless participating in an approved study abroad course or with permission of the department chairperson. Prerequisites: AC 222 with minimum grade of 'C.' (3)

**AC 545. Taxation of Business Entities.** An examination of federal tax laws with an emphasis on corporate taxpayers, partnerships, and fiduciaries. Prerequisite: AC 435 with minimum grade of 'C' or consent of instructor. (3)

**AC 548. Governmental and Not-for-Profit Accounting.** An introduction to the accounting principles and reporting practices of governments and not-for-profit organizations. Prerequisites: AC 222 with minimum grade of 'C'; Senior standing. (3)

**AC 563. (Cross-listed as BL 563). Legal and Ethical Issues in Accounting.** A study of legal issues confronting business decision-makers including negotiable instruments, secured transactions, securities regulation & business organizations. Prerequisite: BL 255 or equivalent with minimum grade of 'C.' (3)

**AC 573. Accounting Internship.** A supervised learning and work experience in professional accounting which enhances and supplements other accounting courses. An internship normally involves at least 150 supervised contact hours. Prerequisites: Junior standing with a 2.75 GPA; AC 321 with minimum grade of 'C.' (3)

## **ADMINISTRATIVE SYSTEMS MANAGEMENT (AD)**

**AD 101. Introduction to Microcomputer Applications.** Fundamentals of an integrated business applications program in a networked Windows environment. Prerequisite: Keyboarding skills. (3)

**AD 210. Computing Fundamentals.** A study of key information technology concepts and the vital technical knowledge that can improve individuals' professional and personal lives. (3)

**AD 222. Microcomputer Applications for Business.** Using the microcomputer to perform business applications using word processing, web page, page design, spreadsheet, database, and presentation software. Prerequisite: AD 101 with a minimum grade of 'C.' (3)

**AD 331. Advanced Word Processing.** Refinement of word processing production, straight copy, and accuracy skills. Prerequisite: AD 101 with a minimum grade of 'C.' (3)

**AD 337. Administrative Systems Management Internship.** Training and work experience in an approved administrative services position, supervised by a departmental representative. Prerequisites: Cum GPA of 2.75; 12 hours of AD prefix courses. (3)

**AD 341. Information Systems Procedures.** Integration of specialized procedures to manage information support systems. Prerequisite: AD 101 with minimum grade of 'C.' (3)

**AD 353. Administrative Systems Management.** Organization and management of administrative information systems with emphasis on the skills, knowledge and role of the administrative office manager. (3)

**AD 491-493. Independent Study in Administrative Services.** Intensive study of special problems related to Business and Marketing Education and Administrative Systems Management. Prerequisites: A minimum of 75 hours completed; a minimum cumulative grade point average of 2.50 overall or 2.75 in the department; a minimum of 10 semester hours in the department completed; consent of the department chairperson. (1-3)

**AD 520. Cooperative Education Programs.** Changing philosophy and environment of cooperative education; overview of office and distributive education programs; planning, organizing and operating the cooperative programs. Prerequisites: SE 314; SE 370 or equivalent. (3)

**AD 526. Improvement of Curriculum and Instruction in Business and Marketing Education.** Study of the current trends, objectives, content, teaching techniques, and evaluation techniques in business and marketing education. Special emphasis given to selecting and evaluating instructional materials. Prerequisites: SE 314; SE 370 or equivalent. (3)

**AD 527. Implementing Business and Marketing Education.** Study of components for successful implementation of business and marketing programs. Prerequisite: Appropriate Bachelor's degree. (3)

## **AEROSPACE STUDIES (AS)**

**AS 100. Foundation of the USAF I.** A survey course designed to introduce students to the U.S. Air Force and Air Force Reserve Officer Training Corps. Featured topics include missions and organization of the Air Force, military customs and courtesies, officership and professionalism, and officer careers. Co-requisite: AS 199. (1)

**AS 101. Foundation of the USAF II.** A continuation of topics taught in AS 100 plus topics in communication skills, military history, organizational/chain of command, and group leadership problems. Co-requisite: AS 199. (1)

**AS 199. Leadership Laboratory.** Training laboratory concurrent with AS 100 and AS 101. Teaches basic drill, ceremonies, and Air Force standards. (0)

**AS 200. Evolution of Air and Space Power I.** A survey course designed to examine general element and employment of air and space power through an historical perspective. Topics include the historical evolution of USAF air and space power from balloons through the Korean War, Air Force Core Values, and application of writing and briefing communication skills. Co-requisite: AS 299. (1)

**AS 201. Evolution of Air and Space Power II.** A continuation of topics taught in AS 200, including continued evolution of USAF air and space power from Vietnam to present day, USAF heritage and leaders, and continued application of writing and briefing communication skills. Co-requisite: AS 299. (1)

**AS 203. AFROTC Field Training.** Four to five-week summer officer training program on an Air Force base for selected students designated for AFROTC Professional Officer Course. (4)

**AS 299. Leadership Laboratory.** Training laboratory concurrent with AS 200 and AS 201. Emphasizes drill and ceremonies; provides preparation for Field Training and applied leadership experiences discussed in class. (0)

**AS 300. AF Leadership Studies I.** A study of leadership and quality management fundamentals, professional knowledge, leadership ethics, and communication skills required of an Air Force officer. Co-requisite: AS 399. (3)

**AS 301. AF Leadership Studies II.** A continuation of the topics taught in AS 300 plus officership values, standards of conduct, principles of war and case studies as a means of demonstrating and exercising practical application of the concepts being studied. Co-requisite: AS 399. (3)

**AS 399. Leadership Laboratory.** Training laboratory concurrent with AS 300 and AS 301. Provides advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of the course. (0)

**AS 400. National Security Affairs.** A study of the national security process, regional studies, Air Force doctrine, civilian control of the military, military operations, joint operations, communication skills. Co-requisite: AS 499. (3)

**AS 401. Preparation for Active Duty.** A continuation of the topic taught in AS 400 plus topics in advanced leadership ethics, the military as a profession, officership, military justice and current issues affecting military professionalism. Co-requisite: AS 499. (3)

**AS 499. Leadership Laboratory.** Training laboratory concurrent with AS 400 and AS 401. Provides advanced leadership experience with an orientation for initial commissioned service. (0)

## **AGRICULTURE (AG)**

**AG 201. World Food and Society.** Food production and distribution for the advancement of societies in developed and developing countries. (University Studies course) (3)

**AG 208. Agribusiness Data Analysis.** Essentials of agricultural computation and modeling, coupled with analysis of field plot data and development of agriculture research communications. (3)

**AG 245. Agricultural Economics.** Economic principles and policies related to agriculture production and the food sector of the US economy. (3)

**AG 250. Agribusiness Management.** The role, organization, and basis for making economic and financial decisions within agribusiness. (3)

**AG 302. Agricultural Education Planning.** Emphasis on the history, design, function and evaluation of secondary agricultural education programs including FFA, curriculum, SAE programs, regulations. (3)

**AG 303. Agricultural Mechanization.** Methodologies in agricultural mechanization including safety, tool use, construction, blueprints, agricultural systems and application of methodologies through experiential activity. Three hours lecture; one hour lab. (3)

**AG 333. Agricultural Law.** Study of statutes, cases and administrative regulations of agricultural concern. Application of laws significant to business and operations of producers. (3)

**AG 334. Agribusiness Finance.** Study of the acquisition and use of capital for farm and other agribusiness firms, including financial decision-making, risk management, and capital budgeting. Examination of the financial intermediaries serving agriculture. Prerequisite: AC 221. (3)

**AG 355. Agriculture Seminar.** Literature review, presentation, and discussion of topics related to current agricultural issues, recent advancements in agricultural research, and student-interest items related to professional development. Prerequisite: Junior standing. (1)

**AG 371. Topics in Agriculture.** Special topics in agriculture typically unavailable in the departmental curriculum such as agriculture instrumentation, clay mineralogy or forest soils. Prerequisite: consent of instructor. (1-3)

**AG 433. Agricultural and Food Policy.** The U.S. policy process related to food and agricultural issues. Analysis of domestic farm, food, resource policy, international trade and market development issues. Prerequisite: AG 245 or EC 215. (3)

**AG 440. Precision Agriculture.** Designed to familiarize students with site-specific technology, including use of GPS and GIS, through a hands-on experience. Two lectures; two-hour lab. Prerequisites: AO 120/020 or consent of instructor. (3)

**AG 447. Marketing Agricultural Products.** Emphasis is placed on alternatives in marketing products and problems that may be encountered. Managing risk using the futures market is also emphasized. Prerequisite: AG 245 or EC 215. (3)

**AG 461. Independent Study in Agriculture.** Directed individual study of special interest areas in agriculture. Prerequisite: 75 hours completed; 2.50 cumulative GPA or 2.75 in major; minimum of 10 hours in discipline to be studied; consent of department chairperson. May be repeated for a maximum of 6 hours. Prerequisite: consent of instructor. (1-3)

**AG 465. Agriculture Internship.** Cooperative program between the department and an organization (employer) that furnishes facilities and instruction where



students acquire additional knowledge and skills. May be repeated for a maximum of 12 hours credit. Prerequisite: Consent of internship advisor. (3-6)

**AG 469. Undergraduate Research.** Supervised individual research on a problem of interest to the student. A report is required. May be repeated for a maximum of 6 hours. Prerequisite: consent of instructor. (3)

**AG 470. Agribusiness Sales.** The sales sequence and development of skills needed to build professional relationships. (3)

**AG 551. Water Management.** Soil, water and plant relationships. Design and layout of farm drainage and irrigation systems. Two lectures; two-hour lab. Prerequisite: HO 110 or AO 120 or consent of instructor. (3)

## **AGRONOMY (AO)**

**AO 120. Plant Science.** Scientific principles and practices associated with the production and cultures of agronomic and horticultural plants. (3)

**AO 125. Plant Science Lab.** Scientific principles and practices associated with the production and culture of agronomic and horticultural plants. (1)

**AO 215/015. Soils.** Origin, classification, and physical, chemical and biological properties related to farm practices. Two lectures (AO 215) must be taken concurrently with two-hour lab (AO 015). Prerequisite: CH 181/001/081 or CH 185/005/085. (3)

**AO 260/060. Integrated Pest Management.** Integration of pest-control methods to improve control, decrease costs and minimize environmental impact. Prerequisite: AO 120/020 or BI 153. (3)

**AO 301. Forages.** Forage crops for pasture, hay and silage with reference to growth and development, production, nutritional quality, and grazing systems. Two lectures; two-hour lab. (3)

**AO 321. Cotton and Rice Culture.** The production and marketing principles governing the growth and development of cotton and rice crops. Prerequisite: AO 120/020 or BI 153. (3)

**AO 322. Weed Science.** Identification, dissemination, ecology and control of weeds. Techniques of herbicide application, types of herbicides and herbicidal action. Two lectures; two-hour lab. Prerequisites: AO 120/020; CH 181/001/081 or CH 185/005/085. (3)

**AO 323. Plant Pathology.** Microbiological principles and cultural practices associated with diseases in plant production. Prerequisite: AO 120/020 or BI 153. (3)

**AO 327. Sustainable Agriculture.** Designed to introduce students to ecological principles and analysis of sustainability of agricultural systems. Prerequisite: AO 120/020. (3)

**AO 340. Agroecosystems Analysis Field Course.** Whole-system approach to agriculture production, ecology, economics and food systems applied in a real world field course experience. (3)

**AO 401. Agriculture and Natural Resource Management.** Application of fundamental agronomic principles to maintain and use natural resources for production, management, recreation, rural development and posterity. Prerequisites: AO 120/020 or BI 153, BI 151 or BS 105. (3)

**AO 415. Crop Systems Management.** Crop and soil management solution involving integration of biological, physical, chemical and economic aspects in production systems. (3)

**AO 420. Crop Physiology.** Study of the physiological processes underlying crop growth and production. Three lectures. Prerequisites: AO 120/020; AO 215. (3)

**AO 427. Soil Fertility and Plant Nutrition.** Fundamentals and concepts of soil fertility and its evaluation related to soil management, plant nutrition and maintenance. Two lectures; two-hour lab. Prerequisites: AO 215/015; CH 181/001/081 or CH 185/005/085. (3)

**AO 435. (Cross-listed as ZO 465). Entomology.** Insect biology, diversity, structure, physiology, behavior, control and selected topics in entomology. Two hours lecture; two-hour lab. Prerequisites: BI 154 or AO 120 and AY 101 and HO 130. (3)

**AO 444. Principles of Plant Breeding.** Principles of plant reproduction and inheritance and their application to development of improved genotypes. Variety evaluation and distribution procedures. Prerequisite: AO 120/020.

**AO 480. Crop Production.** Production practices for growing major crops, including planting, pest management, water management, harvesting, marketing, and processing. Prerequisites: AO 260; AO 323; AO 420. (3)

**AO 555 (Cross-listed as GO 555). Soil Classification and Resource Management.** Classification of soils in terms of their physical, chemical and mineralogical composition. Interpretation of soils in terms of proper land use, with special attention to soil erosion. Two lectures; two-hour lab. Prerequisites: AO 215/015 or GO 110; CH 181/001/081 or CH 185/005/085. (3)

**ANIMAL SCIENCE (AY)**

**AY 101. Animal Science.** Development and fundamentals of the livestock industry, including breeds, physiology, nutrition, and products of sheep, cattle, horses, poultry and swine. (3)

**AY 105. Animal Science Experiences.** Development and fundamentals of the livestock and farm management, including experiences in basic animal handling and farm infrastructures. (2)

**AY 200. Companion Animals.** Examination of the scientific principles of nutrition, reproduction, behavior and business practices of the companion animal industry. (3)

**AY 205. Horse Science.** Feeding and management practices in horse care and production. Two lectures; two-hour lab. (3)

**AY 220. Animal Handling.** Proficiency in care, handling, and routine procedures for large livestock animals, with an emphasis on student and animal safety. One two-hour lab. (1)

**AY 300. Domestic Animal Anatomy and Physiology.** Detailed investigations into the anatomy and physiology of domestic animals, including the skeletal, muscular, cardiovascular, respiratory, digestive, and nervous systems. Two lectures; two-hour lab. Prerequisite: AY 101 or AY 102. (3)

**AY 304. Principles of Animal Nutrition.** General introduction and history of nutrition for animals and man; general functions, deficiencies and toxicities of the six classes of nutrients (water, protein, carbohydrates, lipids, minerals and vitamins); general digestion, absorption, utilization and excretion of these classes of nutrients in cattle, sheep, swine and horses. Two lectures; two-hour lab. Prerequisites: AY 101/105. (3)

**AY 305. Advanced Horse Science.** Advanced management practices in horse care, feeding, and reproduction. Two lectures; two-hour lab. (3)

**AY 311. Animal Breeding.** The application and principles of animal genetics and reproduction for the improvement of farm animals. Two lectures; two-hour lab. Prerequisite: AY 101/105. (3)

**AY 350. Animal Reproduction.** Physiological approach to reproductive processes in farm animals. Study includes anatomy, endocrinology, estrous cycles, egg and sperm physiology, fertilization, gestation, parturition, and reproductive technologies. Prerequisite: AY 101. (3)

**AY 360. Animal Immunization and Disease.** Study of farm animals' infectious and non-infectious diseases, their parasites and parasitic diseases, with overview of immunology and pharmacology. (3)

**AY 375. Animal Breed Improvement.** Fundamental principles of cellular, population and quantitative genetics applied in selection and mating systems to make improvement in farm animals. Prerequisite: AY 101. (3)

**AY 405. Beef Production.** Breeding, feeding, and management of purebred and commercial cattle. Two lectures; two-hour lab. Prerequisite: AY 304. (3)

**AY 440. Advanced Beef Production.** Advanced study of beef production and management. Emphasis on the application of current business and management to improve the efficiency of beef production. Prerequisite: AY 405. (3)

**ANTHROPOLOGY (AI, AN)**

**AI 491-493. Anthropology Internship.** Internship with a public or private agency providing first hand experience in the application of anthropological skills. May receive up to six credit hours in any combination. Prerequisites: Junior standing; declared Anthropology major; minimum 3.0 cumulative GPA; minimum 3.5 GPA in Anthropology courses. (1-3)

**AN 100. Foundations of Human Behavior: Sex and Aggression.** Examines biological and cultural foundations of sex and aggression, with an emphasis on critical examination of the popular media. (University Studies course) (3)

**AN 101. Observing Other Cultures.** Trains students in basic scientific methods of observing cultural and social behavior. Provides foundation for anthropological study of culture. (University Studies course) (3)

**AN 180. Introductory Anthropology: Physical Anthropology and Archaeology.** Human physical and cultural evolution, biological evidence of fossil humans, origins of social life, origins of stone tools, agriculture and cities. (3)

**AN 181. Introduction to Cultural Anthropology.** Worldwide survey of family and marriage, arts, languages and religions. Why cultures and their people differ. (University Studies course) (3)

**AN 250. World Archaeology.** Humankind before recorded history, cultures from stone age to civilization in China, India, Africa, Egypt, Mesopotamia, Mexico and Peru. Prerequisite: Consent of instructor. (3)

**AN 311-313. Archaeological Fieldwork.** On-location study of different, excavation methods and techniques for recovery of archaeological artifacts. Students will practice the use of field and laboratory equipment. Prerequisite: AN 180 or consent of instructor. (1-3)

**AN 317. Ethnographic Field Methods.** An overview of the qualitative methods of studying culture used by social scientists. Students practice using these methods in real-life situations. Prerequisite: AN 101. (3)

**AN 319. Archaeology Laboratory.** Students will learn basic laboratory techniques and procedures used in the identification, preservation, and analysis of various types of prehistoric artifacts. Prerequisite: AN 180 or consent of instructor. (3)

**AN 321. Midwestern Archaeology.** Traces the prehistory of Missouri from earliest mankind in the Ice Age to the arrival of the first Europeans. Examines types and varieties of artifacts that can be found in Missouri and what they explain about prehistoric life. (3)

**AN 331-333. Applied Anthropology.** On-location application of the anthropological perspective, including ethnographic techniques of systematic participant observation, ethnographic interviewing, unobtrusive and naturalistic observations, language learning and analysis. Data analysis and write-up and applied (public) uses of ethnographic research. Prerequisite: AN 101 or AN 181 or consent of instructor. (1-3)

**AN 341. Introduction to Linguistic Anthropology.** Explores the origin and development of human language, and the relationship of language to other aspects of culture. Prerequisite: AN 181 or consent of instructor. (3)

**AN 355. Special Topics in Anthropology.** Explores recent scientific developments and topics of current popular interest or of a specialized nature in prehistory, public archaeology, archaeological methods and techniques. (3)

**AN 360. Meso-American Civilizations.** Study of Aztec, Maya and other important Meso-American civilizations and cultures before and after European contact. Prerequisite: AN 180 or AN 181 or consent of instructor. (3)

**AN 375. Anthropology of Religion.** Examines through an anthropological perspective the development and function of the institution of religion in both complex and simple modern-day societies. Prerequisites: AN 181 or consent of instructor. (3)

**AN 380. Human Evolution and Adaptation.** Biological origins of humans, anatomy of earlier humans, relationship between apes and humans, racial variation, genetic and physical adaptation. Prerequisite: AN 180 or consent of instructor. (3)

**AN 381. North American Archaeology.** Origin and development of Indian cultures before recorded history, earliest migration into new world, European contact. (3)

**AN 382. Archaeology: Method and Theory.** A general introduction to the theories, methods, and practice of archaeology. Prerequisite: Junior standing or consent of instructor. (3)

**AN 387-389. Independent Study in Anthropology.** Directed individual study of special interest areas. (1-3)

**AN 390. European Prehistory.** Ancient Europe, development of pagan cultures, roots of classical civilizations, influences of near East on prehistoric Europe. (3)

**AN 400. Practicum in Teaching Anthropology.** Applied and theoretical study of the teaching of anthropology in which students are paired with and supervised by faculty members. Senior standing or consent of instructor. (3)

**AN 493. Anthropology Theory Seminar: Cultural Anthropology and Linguistics.** Traces the development of anthropological theory and examines the effect of anthropological theories on other academic fields. Prerequisites: AN 180; AN 181. (3)

**AN 550. Historic Archaeology.** Intensive examination of major issues in the development of historical archaeology, theoretical and methodological issues, and major areas of research. Prerequisites: Junior standing or consent of instructor. (3)

**AN 551. Historic Archaeology Field School.** Historic archeological survey and excavation; intensive instruction in recovery and documentation of cultural remains; public interpretation of an excavation; practice in archival research. Prerequisite: Junior standing or consent of instructor. (6)

**See University Studies (UI) listings for description of:**

**UI 339. North American Indians (3)**

## ART (AR)

**AR 001. Freshman Core Review.** Art majors pursuing the BA degree, the BFA degree, or the BS in Education degree must pass the foundation review after completion of the 15 credit hour foundation program (AR 100, AR 104, AR 106, AR 202, AR 201) and before taking upper level or advanced art courses. Foundation review should be completed before the end of the sophomore year. See advisor for details. No credit.

**AR 100. Drawing I.** Introduction to drawing skills/concepts through drawing from direct observation using basic drawing media. One of five foundations courses required for all art majors. (3)

**AR 104. Design Foundations.** Theory and application of the elements and principles of design with emphasis on black and white exercises. One of five foundations courses required for all art majors. (3)

**AR 106. Three-D Foundations.** Introduction to three-dimensional design elements and principles using related materials to explore form, space and concept. One of five foundations courses required for all art majors. (3)

**AR 108. Drawing In Society.** A course combining studio drawing with the study of how art incorporates and communicates the experiences and values of society. No credit toward BFA major. (University Studies course) (3)

**AR 111. Ceramics: A Metaphor For Understanding Human Experience.** Ceramic design, form and functions will be explored to gain an enhanced understanding of human experience through the ages. No credit toward BFA major. (University Studies course) (3)

**AR 112. Perspectives in Art.** Understanding the role of contemporary and historical art in enriching the human experience. No credit toward BFA major. (University Studies course) (3)

**AR 201. Color Composition.** Beginning course of the study of the theory and application of color. One of five foundations courses required for all art majors. (3)

**AR 202. Drawing II: Human Figure.** Application of objective drawing skills to the greater challenges posed by the human figure. May be repeated for credit. One of five foundations courses required for all art majors. (3)

**AR 245. (Cross-listed as DA/MU/TH 245). Creating and Managing a Career in the Arts.** Introduction to business skills and management practices for success in the visual and performing arts. (3)

**AR 270. Art for the Elementary Teacher.** A study of the child's creative art growth in early childhood, upper elementary and middle school levels. Also an examination and development of relevant and effective art education programs. (3)

**AR 302. Printmaking.** Introduction to basic yet diverse printmaking. Emphasis on relief and mixed-media print techniques. Corequisite: AR 001. (3)

**AR 303. Screenprinting.** An introduction to basic screenprinting techniques and the development of a portfolio of prints employing autographic and photo processes. Corequisite: AR 001. (3)

**AR 306. Illustration Concepts.** Introductory study of the concepts and techniques of graphic design

illustration with traditional illustration and art making materials. Prerequisite: AR 322. (3)

**AR 314. Drawing III: Advanced Problems.** Problems which emphasize concept invention and discovery toward developing a personal drawing style and direction. Prerequisite: AR 001 or consent of instructor. (3)

**AR 318. Graphic Design Internship.** Professional design experience in an appropriate work setting. Prerequisites: AR 001; AR 408; AR 416; completion of 75 hours. (3)

**AR 319. Introduction to Graphic Design.** An introductory study of the principles and practices of graphic design. Prerequisite: AR 001 or consent of instructor. (3)

**AR 320. Watermedia I.** Beginning course in the use of transparent and opaque water-soluble pigments and mixed-media on paper. Co-requisite: AR 001. (3)

**AR 322. Typography I.** Introduction to fundamental concepts of typography and its role in creative graphic design. Prerequisite: AR 319 or consent of instructor. (3)

**AR 323. Art and New Technology.** 2D composition, video art, Internet art and the history of electronic technology in art. May be repeated for credit. Prerequisite: AR001 or consent of instructor. (3)

**AR 324. Digital Art Photography.** Exploration of the basic concepts in art photography and video with an emphasis on creative project development. May be repeated for credit. Prerequisites: AR 001; AR 323; or consent of instructor. (3)

**AR 325. Painting.** Introduction to painting in oil on conventional painting supports and grounds using four basic painting techniques drawn from painterly tradition. Corequisite: AR 001. (3)

**AR 330. Fibers I.** Basic, introductory overview of fiber media in art including book construction, surface design and three-dimensional off loom weaving. Co-requisite: AR 001. (3)

**AR 332. Sculpture I.** Introduction to the basic materials and processes of sculpture with emphasis on fundamental skill development within basic wood construction and metal fabrication. Co-requisite: AR 001. (3)

**AR 342. Ceramics I.** Introduction to three-dimensional forms using additive and subtractive construction processes and the creative possibilities of the potter's wheel. Co-requisite: AR 001. (3)

**AR 352. Gallery and Museum Practicum.** Contemporary practices necessary for the successful operation of professional exhibition spaces. May be repeated for a maximum of 6 hours Prerequisites: AR 001; completion of 45 hours. (3)

**AR 372. Independent Study in Art.** Directed individual study to further develop previously learned processes. Prerequisite: AR 001; AR 302 or AR 303; AR 314; AR 325; AR 330; AR 332; AR 342. (3)

**AR 376. 3-D Digital Art.** Focus on 3D rendering as fine art. Students will explore output options and art historical relevance. May be repeated for credit. Prerequisites: AR 001; AR 323; or consent of instructor. (3)

**AR 399. Professional Practice.** Exploration of the practice and business of being an artist with emphasis on career professionalism, basic art business practices, exhibition and marketing. (3)

**AR 401. Intermediate Printmaking.** Continuing work in intaglio, screenprinting or lithography printmaking. Prerequisites: AR 302 or AR 303; AR 501 or AR 502. (3)

**AR 402. Advanced Printmaking.** Expanded research with emphasis on building a body of refined self-directed artwork in intaglio, screenprinting or lithography. Prerequisite: AR 401. (3)

**AR 408. Graphic Design Print Production.** Introduction to basic concepts and technical issues of graphic design print production. Historical, contemporary and technological issues will be introduced. Prerequisite: AR 416. (3)

**AR 409. Digital Illustration.** Advanced study of concepts and techniques of digital illustration. Prerequisites: AR 306 or consent of instructor. (3)

**AR 414. Drawing Portfolio.** Offers students the opportunity to use simple, direct and spontaneous drawing processes to develop a personal vision while creating a cohesive portfolio of original drawings. Prerequisite: AR 314. (3)

**AR 416. Advanced Graphic Design.** Advanced graphic design studio course that will explore issues of graphic design issues in corporate identity, branding and communication. Prerequisite: AR 322 or consent of instructor. (3)

**AR 417. Typography II.** Portfolio level course exploring advanced problems in typography through creative projects and study of related contemporary issues. Prerequisite: AR 332 or consent of instructor. (3)

**AR 418. Introduction to Web Design.** Introduction to basic principles and issues concerning web art, design programming and Internet art history. May be repeated for credit. Prerequisites: AR 001; AR 323; or consent of instructor. (3)

**AR 421. Watermedia II.** Advanced watercolor and mixed media techniques. May be repeated for additional credit. Prerequisite: AR 320. (3)

**AR 423. Art Motion Graphics.** Introduction to current concepts and history of responsive environment art, generative art and art animations through basic motion graphics. Prerequisites: AR 001; AR 323; or consent of instructor. (3)

**AR 424. Painting II.** Further development of skills attained in introductory painting. Guided and thematic paintings will be accomplished as students transition towards more independent projects and begin the development of personal content. Prerequisite: AR 325 or consent of instructor. (3)

**AR 425. Sculpture II.** In-depth exploration of three-dimensional, sculptural form within wood construction, metal fabrication, and mixed media with emphasis on uniting sculptural form with individual applied content. Prerequisite: AR 332. (3)

**AR 426. Painting III.** Experimentation and self-directed interactive investigation of media and technique along with further exploration of contemporary trends in painting. May be repeated for credit. Prerequisite: AR 424. (3)

**AR 427. Painting IV.** Focus on expanded research and the refinement of artwork through a self-directed special problem in painting. Emphasis on the development of personal expression and style. Prerequisite: AR 424. (3)

**AR 431. Sculpture III.** Exploration of contextual use of sculptural materials with emphasis on individual sculptural material research, manipulation and presentation. Prerequisite: AR 425. (3)

**AR 432. Sculpture IV.** Emphasis on expanded research and creation of a body of refined artwork and manipulation of sculptural and exhibition space. Prerequisite: AR 431; or consent of instructor. (3)

**AR 433. Sculpture V.** Emphasis on professional development relating contemporary practices of professional artists with refinement of self-directed artwork. Prerequisites: AR 432; or consent of instructor. (3)

**AR 441. Ceramics II.** Exploring ceramics as a material for personal expression with an emphasis on larger ceramic forms and developing pottery wheel skills. Prerequisite: AR 342 or consent of instructor. (3)

**AR 442. Ceramics III.** Personal investigation and exploration of alternative construction and glazing techniques in ceramics to foster expressive sophistication. Prerequisite: AR 441 or consent of instructor. (3)

**AR 443. Ceramics IV.** Explores clay and glazes and their formation, both in practice and in theory, and their significance to creating ceramic art. Prerequisite: AR 442 or consent of instructor. (3)

**AR 447. Advanced Digital Art.** Expanded research and creation of digital artwork; emphasis on building a body of refined artwork. Prerequisites: AR 324; AR 418; AR 423; or consent of instructor. (3)

**AR 448. Digital Art Problems.** Focus on expanded research and the creation of self-directed digital artwork. Emphasis on refining artwork and exhibiting. Prerequisites: AR 001; AR 447; or consent of instructor. (3)

**AR 449. Painting V.** Focus on professional development in contemporary practice of the professional studio artist. Emphasis on the development of a technically and thematically unified body of artwork. Prerequisite: AR 424 or consent of instructor. (3)

**AR 490. BFA Studio Capstone.** Preparation and creation of the Bachelor of Fine Arts senior project. May be repeated for credit. Prerequisite: Permission of instructor. (3)

**AR 501. Intaglio Printmaking.** Introduction to basic yet diverse intaglio techniques and the development of a portfolio of prints using built, hand-drawn and photo plates. Prerequisite: AR 001. May be repeated for credit. (3)

**AR 502. Lithography.** Techniques of stone and polyester plate lithography and development of personal expression. Prerequisite: AR 001. (3)

**AR 520. Figurative Painting.** Covers traditional areas of interest such as portraiture and the studio nude; also addresses all images of the human figure and its contextual environment. Prerequisite: AR 424. (3)

**AR 541. Ceramics V.** Preparation for a career as a ceramic artist: personal research and development of techniques, historical relevance, and concepts are emphasized. Prerequisite: AR 443 or consent of instructor. (3)

## **ART HISTORY (AH)**

**AH 110. Art History Survey I.** A study of painting, sculpture and architecture from prehistoric times through the Gothic Age. (3)

**AH 210. Art History Survey II.** From the Renaissance to the contemporary era. (3)

**AH 310. Classical Art.** History of Ancient art with emphasis upon Greek and Roman art. Prerequisite: AH 210. (3)

**AH 311. Modern Art.** History of major developments in the art of the 19th and early 20th centuries. Prerequisite: AH 210. (3)

**AH 312. Renaissance Art.** Study of Italian art history from the late middle ages to the High Renaissance and Maniera. Prerequisite: AH 210. (3)

**AH 400. Seminar: Readings in Art.** Exploration of the theoretical basis of artists and their work. Major emphasis upon 1800 to the present. Prerequisite: AH 311. (3)

**AH 510. Non-Western Art.** Survey of historical and contemporary culture in Central Africa, India, Japan, China, the Middle East and Meso-America. Prerequisite: AH 210. (3)

**AH 511. American Art.** Study of the major contributions of artists living in the U.S. from the time of the Native Americans to the present. Prerequisite: AH 210. (3)

**AH 512. Issues in Contemporary Art and Culture.** Movements in painting, sculpture and architecture as developed in Europe and America beginning with the Armory Show of 1913 and including present trends. Prerequisite: AH 210. (3)

**AH 514. Issues in Renaissance Art.** 13th-16th century Italian art and its relationship to the development of political, social and cultural history. Prerequisite: AH 210. (3)

**AH 516. Issues in Modern Art.** This course will investigate the development of modernism in western culture as it was reflected in the artistic expression of the time. Influences from a variety of cultures will be explored, as will political, economic and social impacts. Prerequisite: AH 210. (3)

**See University Studies (UI) listings for description of:**

**UI 337. Issues in Modern Architecture.** (3)

## **BIOLOGICAL SCIENCES (BS)**

**(Courses with a BS prefix generally do not count on a Biology major or minor.)**

**BS 103. (Cross-listed as SW 103). Human Biology.** Emphasis on human cell, tissue, and organ system function. Discussions focus on a systems approach to human health and disease. (University Studies course) (3)

**BS 105. Environmental Biology.** Discussion of biological principles with application to environmental issues. Two lectures; one discussion/recitation. (University Studies course) (3)

**BS 107. Investigations in Biology.** Biological processes will be used to provide experience in scientific investigation and discussion of implications and limitations. Two-hour discussion/recitation; two-hour lab. (University Studies course) (3)

**BS 108. Biology for Living.** To acquaint the students with and help them to understand some of the fundamental biological processes and problems

which confront living organisms. (University Studies course) (3)

**BS 113/013. Anatomy and Physiology I.** First in a two-semester sequence. Introduction to the aspects of anatomy and physiology related to the care of the human body. Particular attention given to cells, tissues, integumentary system, nervous system, circulatory system, skeletal system, and muscular system. Three lectures; one two-hour lab. (4)

**BS 114/014. Anatomy and Physiology II.** Second course in sequence. Particular attention given to the digestive system, endocrine system, lymphatic system, immune system, respiratory system, urinary system, fluid, electrolyte, acid/base balance and reproductive system. Three lectures; one two-hour lab. Prerequisite: BS 113/013 with a minimum grade of 'C'. (4)

**BS 115. Anatomy and Physiology.** A comprehensive anatomy and physiology course emphasizing the digestive, skeletal, muscular, circulatory, nervous, respiratory, urinary, endocrine and reproductive systems. Three lectures; two two-hour labs. (5)

**BS 118. Introduction to Process Science for Elementary Teachers.** This course will provide elementary teacher candidates with a working knowledge of science, acquisition of scientific knowledge, and the processes of scientific investigation. One two-hour lab. (1)

**BS 218. Biological Science: A Process Approach.** This course applies scientific thought to structure, function, energetics and ecology of living systems. Two lectures; one two-hour lab. Prerequisites: BS 118. (University Studies course) (3)

**BS 240. Microorganisms and Their Human Hosts.** Introduction to the anatomy, physiology, cultivation and control of microorganisms, the human immune system, and interactions between humans and microorganisms. Students may not receive credit for both BS 240 and BI 200. Two lectures; one two-hour lab. Prerequisite: BS 114. (3)

**BS 242. Microorganisms and the Human Body.** An introduction to the anatomy, physiology, cultivation and control of microorganisms, the interactions between humans and microorganisms with an emphasis on those of clinical importance and an overview of the human immune system. Not credited on a departmental major or minor or on a medical technology major. Two lectures; one recitation; one two-hour lab. Prerequisite: BS 114. (4)

**BS 327. Biology of Aging.** Introduces basic structure and function of the human body; describes aging processes occurring at various levels of biological organization. (3)

**BS 332. Human Physiology.** Physiology of the human body. Major emphasis on those body systems which are essential to physical fitness and health care. Two lectures; one two-hour lab. Prerequisites: BS 103 or BS 105 or BS 107 or BS 108. (3)

**BS 401. (Cross-listed as AO 401). Agriculture and Natural Resource Management.** Application of fundamental agronomic principles to maintain and use natural resources for production, management, recreation, rural development, and posterity. (3)

## **BIOLOGY (BI)**

**The major in Biology requires an option to be chosen by the student in consultation with a faculty advisor. The six options are biomedical sciences; marine biology; microbiology, cellular and molecular biology and biotechnology; organismal, ecological and evolutionary biology; pre-physician assistant; and wildlife and conservation biology. Generally, courses with a BS prefix do NOT count on a major or minor.**

**BI 151. Biological Reasoning.** Use of scientific reasoning and evidence from various biological disciplines to test hypotheses about the common ancestry of organisms. Prerequisite: Must be EN100 eligible. (3)

**BI 152. Introduction to Scientific Investigation.** Introduction to science as conjecture and refutation. Students will conduct multiple studies in which they generate hypotheses, design tests of the hypotheses, and collect, analyze, and present data. Computer-based statistical and graphing functions will be used. One 2-hour lab. Pre- or Co-requisite: BI 151. (1)

**BI 153. Introduction to Organismal Biology.** Course will provide a strong foundation in the unifying concepts and theories that best explain the origin and diversity of living organisms. Students will be introduced to ecological principles underlying natural selection and adaptation. Life processes (e.g., metabolism, growth, reproduction, etc.) will be examined in the context of natural selection. Three lectures; one 2-hour lab. Pre- or Co-requisites: BI 152; CH185. (4)

**BI 154. Genetics and Cellular Biology.** Biological molecules and their interactions, DNA replication, gene expression and regulation, membrane structure and function, cellular organization and cellular energetics. Three lectures; one two-hour lab. Prerequisites: BI 153; CH 185. (4)

**BI 200. General Microbiology.** An introduction to bacteria, archaeobacteria, eukaryotic microbes, and viruses. A detailed consideration of their structure,

metabolism, heredity, diversity, and related laboratory techniques. Two lectures; one two-hour lab. Prerequisite: BI 154. (3)

**BI 245. Laboratory Methods in Biotechnology.** Theory and practice of common biological laboratory methods: solutions preparation, spectrophotometry, electrophoreses, DNA manipulations, and biological, chemical and radiological safety. One lecture; two two-hour labs. Pre- or Co-requisite: BI 200. (3)

**BI 261. Introductory Field Biology.** One to two week course involving an introduction to biological field methods. Investigations of ecosystems not normally found within the range of Southeast Missouri. (1)

**BI 262. Field Techniques in Biology.** Basic methods used in an area of field biology as determined by semester title. Weekend field trips may be required. May be repeated up to three times for credit. Prerequisite: BI 153. (2)

**BI 298-299. Biological Research I.** Faculty-directed independent research project. May be repeated once for credit. (1-2)

**BI 300. Introduction to Evolutionary Biology.** An introduction to historical biology, incorporating principles of ecology, systematics, biogeography, and basic principles of evolutionary biology. Prerequisites: BI 154; MA 134 or MA 135 or MA 139 or MA 140. (3)

**BI 332. General Ecology.** An introduction to the fundamental principles of ecology. Two lectures; one two-hour lab. Prerequisite: BI 154. (3)

**BI 348. Marine Biology.** Introduction to the biology, ecology and conservation of organisms that live in the marine environment. Pre- or Co-requisite: BI 154. (3)

**BI 381. Molecular Genetics.** Intermediate-level survey of genetics. Topics covered include enzymology of gene expression; introduction to gene regulation in prokaryotes and eukaryotes; and techniques of DNA manipulation. Prerequisite: BI 154. (3)

**BI 384. Readings in Biology.** Consideration in-depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. Students are limited to a total of 6 credit hours of readings during their program. (1)

**BI 400. (Cross-listed as EV 400). Health Physics.** Radiation physics and biology as related to safe use of ionizing radiation in therapeutic and diagnostic medicine, industry and research. Two lectures; one two-hour lab. Prerequisites: BI 154 or BS 105; CH185 or PH 120. (3)

**BI 404. Cell Biology.** Dynamics of eukaryotic cellular function, molecule targeting, vesicular trafficking, signal transduction and molecular aspects

of cell interactions. Two lectures; one two-hour lab. Prerequisites: BI 381; CH341/342. (3)

**BI 414. Current Problems in Cell and Molecular Biology.** In-depth consideration of selected topics of current interest in cellular and molecular biology, with emphasis on problem solving and analysis of primary literature. Three lectures; one hour recitation. Prerequisite: BI 381. (3)

**BI 420. Management of Wildlife Populations.** Introduction to theoretical principles and empirical bases for population management of wildlife, and application of these principles. Basic concepts of population dynamics, estimation of population parameters, and population management. Examples emphasize North American species. Weekend field trip may be required. Prerequisite: BI 154 (3)

**BI 430. Management of Wildlife Habitat.** Principles and practices of habitat management for wildlife in North America. Two lectures; one two-hour lab. One weekend field trip is required. Prerequisite: BI 154. (3)

**BI 432. Advanced Ecology.** Study of the evolutionary interactions among organisms and their environments. Evolutionary stable strategies, life history and foraging strategies, population growth, intra- and interspecific interactions. Prerequisite: BI 332. (3)

**BI 434. Marine Evolutionary Ecology.** Integration of evolutionary and ecological processes that govern community structure and function in the marine environment. Human impacts on the marine environment. Prerequisites: BI 154; BI 332; BI 348. (3)

**BI 435. Conservation Biology.** Discussion of ecological principles relating to conservation of biodiversity, with a review of social, political, and economic constraints. One weekend field trip is required. Prerequisite: BI 154. (3)

**BI 438. Biogeography.** Geographical distribution of biological diversity. Application of theories and methods to explore spatial and temporal patterns of variation and biodiversity. Prerequisites: BI 154; BI 300 or BI 332. (3)

**BI 440. Ecology and Management of Wetlands.** General introduction to structure, function, classification, delineation, and biota of wetlands. Emphasis on the application of principles of wetland ecology to wetland management, with particular attention given to wetland types occurring in the Midwest. One weekend field trip is required. Two lectures and one two-hour lab. Prerequisite: BI 154. (3)

**BI 441. Virology.** A course to acquaint students with the viruses, prions and viroids of animals, plants and bacteria, emphasizing biochemical characteristics,



techniques of study and medical and economical importance. Three lectures. Prerequisite: BI 154. (3)

**BI 442. Immunology.** Introduction to modern immunology with an emphasis on the underlying biochemical mechanisms. Two lectures; one two-hour lab. Prerequisite: BI 154. (3)

**BI 443. (Cross-listed as EV 443) Epidemiology.** Introduction to basic concepts, methods and applications of infectious disease, chronic disease and environmental epidemiology focused on epidemiological reasoning processes. Prerequisite: BI 154. (3)

**BI 445. Microbial Physiology.** A detailed consideration of prokaryotic structure and function, encompassing morphology, metabolism, genetics and growth. Two lectures; two-hour lab. Prerequisites: BI 200. (3)

**BI 450. (Cross-listed as BT 450) Investigative Molecular Biology and Biotechnology.** Gene cloning and analysis in an investigative environment. DNA isolation, sequence analysis, recombinant construction, hybridization, library screening, PCR. One lecture; two two-hour labs. Prerequisites: BI 381; CH 341; CH 342. (3)

**BI 452. Freshwater Ecology.** A comparative approach to the ecological study of freshwater systems, including the chemical, physical, and biological components of springs, streams, impoundments, and swamps. One lecture; two two-hour labs. Prerequisites: BO 200 or ZO 200. (3)

**BI 453. (Cross-listed as EV 453). Occupational Health.** Introduction to the factors influencing occupational incidents and the adverse interactions of environmental and occupational chemical/physical agents with humans. Prerequisites: CH 181 or CH 185; completion of Living Systems (BI or BS) category of University Studies. (3)

**BI 454. (Cross-listed as EV 454). Risk Assessment Applications.** Introduction to concepts, terminology, methods, and applications of qualitative and quantitative health and ecological risk assessment and risk communication. Prerequisites: CH 181 or CH 185; MA 134 or MA 135 or MA 139 or MA 140; completion of Living Systems (BI or BS) category of University Studies. (3)

**BI 455 (Cross-listed as EV 455). Industrial Hygiene.** The study of chemical and physical hazards in the occupational environment and the methods used for their evaluation and control. Prerequisites: BI 200; CH 186; MA 134. (3)

**BI 458. (Cross-listed at BT 458). Analytical Bioinformatics.** Analysis of large-scale molecular biology data. Databases and queries. Gene annotation.

Sequence similarities and alignments. Protein structure/function predication. Genomics, transcriptomics, proteomics. Prerequisite: BI 381. (3)

**BI 460. (Cross-listed as EV 460). Introduction to Toxicology.** Introduction to the fundamental principles of toxicology, toxic agents, toxicity testing, mechanisms of toxicity, toxic effects, sources of exposure, and applications of toxicology. Prerequisites: BI 154; CH 185. (3)

**BI 469. Wildlife Toxicology.** Introduction to the principles of environmental toxicology and discussion of the literature on biological effects of environmental toxicants on terrestrial vertebrate wildlife species. Prerequisites: CH 185; BI 154. (3)

**BI 471-473. Internship in Biology.** A supervised learning and work experience in biology which enhances the student's understanding of and appreciation for the application of biological knowledge and skills. Students are limited to six hours of internship credit during their program. (1-3)

**BI 485. Topics in Biology.** Consideration in depth of subject matter that is not a part of the established departmental curriculum. On demand. Prerequisite: Junior standing. (3)

**BI 489. Analysis of Biological Issues.** Integration of knowledge, skills, and experience by students from disparate areas of biology through investigation of biological issues with broad world or community importance. Prerequisites: 30 hours of BI, BO, BT, or ZO courses. (2)

**BI 493. Readings in Biology.** Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. Students are limited to a total of 6 credit hours of readings during their program. (2)

**BI 543. Pathogenic Microbiology.** The study of the epidemiology, pathology, isolation, identification, prevention and treatment of clinically significant bacteria and viruses. Prerequisite: BI 200. (2)

**BI 544. Pathogenic Microbiology Laboratory.** Clinically significant bacteria are isolated, identified and studied in theory and practice, with emphasis on the biochemical basis of the procedures. One two-hour lab. Prerequisite: BI 200. Co-requisite: BI 543. (1)

**BI 551/553. Biology Field Studies.** A one, two, or three week field course involving the study of ecosystems and habitats not normally within range of Southeast Missouri (e.g. grasslands, deserts, estuarine, and montane systems). Prerequisite: BI 154. (1 or 3)

**BI 570. The Development of Instructional Materials for Courses in the Biological Sciences.** Independent study under supervision of a member

of the biology faculty. Students design and develop instructional materials for a departmental course. Prerequisite: BI 154. (1)

**BI 589-591. Biological Research.** Investigation of a research project with emphasis on development of controls, evaluation of results and relation to current literature. A summarizing paper may be required. Students are limited to a total of 6 credit hours of research during their program. Prerequisite: BI 154. (1-3)

**See University Studies (UI) listings for descriptions of:**

**UI 303. The Female Experience.** (3)

**UI 317. Human Sexuality.** (3)

**UI 360. Recycling and Waste Management.** (3)

**UI 406. Transforming the Female Experience.** (3)

**UI 415. Science and Religion.** (3)

## **BIOLOGY GULF COAST RESEARCH LABORATORY**

These courses are offered during summers at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi, through an affiliation with the Institutions of Higher Learning of the State of Mississippi. Credit is granted by the University. Department of Biology advisors have additional details.

**BI 352/353. Marine Science II: Marine Biology.** (3/2)

**BI 541/540. Marine Microbiology.** (3/2)

**BI 559/560. Coastal Ecology Teacher.** (3/1)

**BI 571. Marine Science for Teachers.** (3)

**BI 573-578. Special Topics in Marine Science.** (1-6)

**BI 579/580. Applications of Biotechnology in Marine Biology.** (3/3)

**BI 593-598. Special Problems in Marine Science.** (1-6)

**BO 500/505. Marine Phycology.** (2/2)

**BO 562/561. Salt Marsh Plant Ecology.** (2/2)

**BO 563/564. Coastal Vegetation.** (2/1)

**ZO 500/502. Marine Invertebrate Zoology.** (3/3)

**ZO 510/511. Comparative Histology of Marine Organisms.** (3/3)

**ZO 541/540. Parasites of Marine Animals.** (3/3)

**ZO 544/545. Shark Biology.** (3/2)

**ZO 552/553. Marine Fisheries Management.** (2/2)

**ZO 554/555. Marine Aquaculture.** (3/3)

**ZO 559/560. Marine Mammals.** (3/2)

**ZO 562/561. Marine Ecology.** (3/2)

**ZO 563/566. Fauna and Faunistic Ecology of Tidal Marshes, Seagrasses and Sand Beaches.** (2/3)

**ZO 564/574. Marine Ichthyology.** (3/3)

**ZO 565/567. Early Life History of Marine Fishes.** (2/2)

## **BIOTECHNOLOGY (BT)**

**BT 450. (Cross-listed as BI 450) Investigative Molecular Biology and Biotechnology.** Gene cloning and analysis in an investigative environment. DNA isolation, sequence analysis, recombinant construction, hybridization, library screening, PCR. One hour lecture; two two-hour labs. Prerequisites: BI 381; CH341; CH 342. (3)

**BT 458. (Cross-listed at BI 458). Analytical Bioinformatics.** Analysis of large-scale molecular biology data. Databases and queries. Gene annotation. Sequence similarities and alignments. Protein structure/function predication. Genomics, transcriptomics, proteomics. Prerequisite: BI 381. (3)

## **BOTANY (BO)**

**BO 200. Plant Biology.** Survey of the structure, function, and evolution of plants, plus relevant introduction to cyanobacteria and photosynthetic protists. Three hours lecture/discussion and one two-hour lab. Prerequisite: BI 154. (4)

**BO 361. Systematic Botany.** Plant classification. Identification and relationships of seed bearing plants and ferns. One lecture; two two-hour labs. Prerequisite: BI 154. (3)

**BO 420. Ethnobotany.** The history and traditional methods of plant use by ethnic groups and potential or current applications to modern human needs, such as pharmacy, nutrition, human habitat, clothing, and industry. Prerequisite: BI 154. (3)

**BO 445. Plant Physiology.** Physiological processes and responses of plants to the environment with emphasis on metabolism, development and transport. Two lectures, one two-hour lab. Prerequisite: BI 154. (3)

**BO 461. Native Aquatic Plants.** Designed to familiarize the students with the algae and aquatic vascular plants found in the area and their habitat relationships. The course is primarily field-oriented. One lecture; two two-hour labs. Prerequisite: BI 154. (3)

**BO 469. Field Botany.** Study of plant communities in a variety of habitats, emphasizing the natural history and field identification of local species. One two-hour lecture/discussion during first eight-week period and two four-hour labs during second eight-week period. Prerequisites: BI 154; BO 200 preferred. (3)

## **BUSINESS ADMINISTRATION (BA)**

### **BA 361. Principles of Entrepreneurship.**

Introductory course focusing on the individual entrepreneur, the generation of innovative business ideas, the creation of business ventures and the role of entrepreneurship within society. Prerequisite: Completion of 45 hours. (3)

### **BA 363. Small Business/New Venture Financing.**

Emphasis on financial problems facing small business and new ventures. Includes business planning, asset management, working capital management, capital budgeting, business valuation, and an examination of funding sources. Pre or Co-requisites: MG 301; MK 301. Prerequisite: FI 361 with grade of 'C' or higher. (3)

**BA 458. International Business Internship.** A supervised field experience in international business involving at least 50 supervised contact hours per credit hour enrolled. Repeatable up to 6 hours. Prerequisites: Senior standing; International Business major. (1-6)

**BA 490. Business Policy and Strategy.** A capstone course in business focusing on integrated corporate decision making in terms of strategy formulation, implementation, and evaluation. Prerequisites: All Business Core courses with a minimum grade of 'C' in each course (except required International course); senior standing. (3)

**BA 521. Topics in Entrepreneurship.** This course focuses upon the critical issues and challenges encountered at different stages in the processes of new venture initiation and growing privately-held companies. Prerequisites: Senior standing or consent of instructor. (3)

**BA 531. Imagination, Creativity and Innovation.** Investigation of imagination, creativity and innovation in the context of one's intrapersonal, interpersonal, social and organizational environment. Prerequisite: Junior standing. (3)

**BA 551. Managing and Growing the New Venture.** Investigation of fundamental business concepts in the context of successfully launching and managing a new venture. Prerequisite: BA 361. (3)

**BA 560. International Business Study Tour.** Provides a comprehensive theoretical overview of international business, along with an intensive overseas study tour of business and institutions. Prerequisites: MG 301; MK 301. (3)

**BA 561. Business Planning for New Ventures.** Entrepreneurial analysis with a primary emphasis on strategic and business planning for a new venture; an applied course where students develop comprehensive business plans. Prerequisite: BA 361. (3)

**BA 573. Accounting Internship.** A supervised work experience in professional accounting. Forty contact hours are required for each hour of credit. Course may be repeated for credit but may not exceed nine hours total. (1-3)

## **BUSINESS LAW (BL)**

**BL 255. Legal Environment of Business.** This course examines foundations in law and business relating to regulatory, public and private legal environments, including international and ethical issues. Prerequisite: Sophomore standing. (3)

**BL 455. Contracts.** This course examines foundations of common law and statutory regulations governing contractual relationships, emphasizing commerce under the Uniform Commercial Code. Prerequisite: BL 255 with minimum grade of 'C'; junior standing. (3)

**BL 563. (Cross-listed as AC 563). Legal and Ethical Issues in Accounting.** A study of legal issues confronting business decision-makers, including negotiable instruments, secured transactions, securities regulation and business organizations. Prerequisite: BL255 or equivalent with a minimum grade of 'C'; or consent of instructor. (3)

**BL 573. Internship in Business Law.** A supervised learning and work experience in law which enhances traditional business law courses. Prerequisites: 60 hours of course credit with a minimum 2.75 cumulative GPA; BL255 or its equivalent with a minimum grade of a 'B'. (1-3)

**See University Studies (IU, UI) listings for description of:**

**IU 300. Cyberlaw (3)**

**UI 316. Contemporary Legal Studies. (3)**

## **CAREER LINKAGES (CL)**

**CL 001. Career Linkages I.** Students connect academic and career planning by completing a web-based career assessment (FOCUS). Corequisites: CL 002; UI 100. (0)

**CL 002. Career Linkages II.** Students create an action plan to achieve career objectives (within FOCUS). Corequisites: CL001; UI 100. (0)

**CL 003. Career Linkages III.** Students demonstrate minimal proficiency in finding information about career readiness through Career Linkages and answering 20 out of 25 questions correctly. Prerequisite: CL 002. (0)

**CL 004. Career Linkages IV.** Students present for approval either a polished resume and cover letter or other specific documentation per department/major instructions. Prerequisite: CL003. (0)

## **CHEMISTRY (CH)**

**CH 180. Chemistry in Our World.** The principles governing the systematic behavior of matter, with applications to life and living. One may not receive credit for both CH 180 and CH 181/001/081. Two lectures and three hours of laboratory. Prerequisite: MA 101 or MA102 or equivalent. (University Studies course) (3)

**CH 181/001/081. Basic Principles of Chemistry.** A one semester survey of the fundamental principles and systematic behavior of matter. Three lecture hours (CH 181), one recitation hour (CH 001), two lab hours (CH 081) must be taken concurrently. One may not receive credit for both CH 181/001/081 and CH 185/005/085. Pre or Co-requisite: MA 101 or MA 102 or equivalent. (University Studies course) (5)

**CH 185/005/085. General Chemistry.** A study of atomic structure, chemical bonding, properties of matter and chemical reactions. Four lectures and two hours laboratory. One may not receive credit for both CH 181/001/081 and CH 185/005/085. Prerequisite: MA 102 or equivalent. (University Studies course) (5)

**CH 186. Foundations of Inorganic Chemistry.** A one semester foundational course in inorganic and general chemistry, including nuclear chemistry, bonding theory, acid-based chemistry, redox chemistry, coordination chemistry, organometallics, the crystalline solid state, thermodynamics, and bioinorganic chemistry. Three lectures. Prerequisite: a grade of 'C' in CH 185/005/085 or 'B' in CH 181/001/081. (3)

**CH 187. Inorganic Chemistry and Qualitative Analysis Lab.** Focus primarily on the synthesis and purification of inorganic and coordination compounds, molecular modeling, the characterization of inorganic materials, and qualitative analysis. Supplements topics discussed in CH 186. Four lab hours. Pre or Co-requisite: CH 186. (2)

**CH 234. Organic and Biological Chemistry.** A survey designed for non chemistry majors or minors covering basic organic chemistry and biochemistry. Two lectures and two-hour lab. Prerequisite: CH 180 or CH 181/081/001 or consent of instructor. (3)

**CH 271. Foundations of Analytical Chemistry.** Theory and techniques of analytical chemistry. Three lectures and four hour lab. Prerequisites: CH 186; CH 187; or consent of instructor. (5)

**CH 311. Foundations of Physical Chemistry.** A study of the gaseous state, thermodynamics and thermochemistry, nonelectrolyte solutions, electrolyte solutions and chemical kinetics. Four lecture hours. Prerequisites: CH 271; PH 121 or PH 231; MA 139 for BA Chemistry majors; MA 140 for BS Chemistry majors.(4)

**CH 312. Advanced Physical Chemistry.** A systematic study of quantum mechanics, group theory, chemical bonding, molecular spectroscopy, and chemical kinetics. Three lecture hours. Prerequisites: CH 311; MA 145. (3)

**CH 313. Physical Chemistry Laboratory.** Experimental application of principles of physical chemistry in calorimetry, electrochemistry, molecular spectroscopy, chemical kinetics, and study of gases and liquids. Six lab hours. Pre or Co-requisite: CH 312. (3)

**CH 341. Foundations of Organic Chemistry.** A systematic study of the chemistry of the major functional groups of organic compounds. Course emphasizes reaction mechanisms and synthesis. An introduction to NMR and IR is included. Four lecture hours. Prerequisite: CH 186 and CH 187 with a grade of 'C' or consent of instructor. (4)

**CH 342. Organic Chemistry Lab I.** Acquaints students with basic organic laboratory techniques. Chemistry and properties of selected functional groups will be explored. Three lab hours. Pre or Co-requisite: CH 341. (1)

**CH 343. Advanced Organic Chemistry.** A continuation of Foundations of Organic Chemistry focusing on synthesis, mechanisms of reactions, and spectroscopy of organic molecules. Three lecture hours. Pre or Co-requisite: CH 342. (3)

**CH 344. Organic Chemistry Lab II.** Students will perform selected organic syntheses and develop skills in semimicro qualitative organic chemistry. Four lab hours. Pre or Co-requisites: CH 343 or consent of instructor. (2)

**CH 391-399. Undergraduate Research.** Original research for students with demonstrated superior ability. On demand. Pre or Co-requisites: UI 443; consent of department. (1-9)

**CH 400. Special Topics in Chemistry.** Special topics in chemistry unavailable in the department curriculum such as electrochemistry, nuclear chemistry, polymer chemistry, industrial chemistry, and surface chemistry. On demand. Prerequisite: Consent of instructor. (1)

**CH 401-403. Independent Study in Chemistry.** Directed individual study of problems in chemistry. On demand. Prerequisite: departmental approval of study plan and compliance with university guidelines for independent studies. (1-3)

**CH 420. Forensic Chemistry.** Applications of the principles, methods, and instrumentation of chemistry to forensic problems. Covers topics most commonly applicable to the everyday functions of a crime laboratory professional. Three lectures and two hours lab. Prerequisites: CH 271; CH 342. (4)

**CH 447. Advanced 1 and 2 Dim NMR Techniques.** Advanced NMR techniques applied to structure determination. This course will provide theoretical and hands-on-training of various 1D and 2D NMR techniques. Typically taken in final semester of degree program. Two lecture hours and two lab hours. Prerequisite: CH 344 or consent of instructor. (3)

**CH 450. (Cross-listed as EV 450). Environmental Chemistry.** A study of the sources, reactions, transport, and fate of chemical entities in the air, water, and soil environments. Two lectures and two hours lab. Prerequisites: CH 341; CH 342; or consent of instructor. (3)

**CH 498. Professional Presentation in Chemistry.** Student presentation of work done as part of experiential learning activities. Credit/No Credit. Prerequisite: UI 443. (1)

**CH 531. Foundations of Biochemistry.** Structure and function of amino acids, proteins, lipids, and carbohydrates. Generation and utilization of energy. Three lecture hours. May be taken as UI 331. Prerequisite: CH 342 or consent of instructor. (3)

**CH 532. Advanced Biochemistry.** Metabolism and biosynthesis of amino acids, lipids, and nucleic acids. Transmission and expression of genetic information. Two lecture hours. Prerequisite: CH 531 or UI 331. (2)

**CH 533. Biochemistry Laboratory.** Laboratory course dealing with selected biochemical techniques. Major areas of study include amino acids, proteins, carbohydrates, lipids, and nucleic acids. Four hour laboratory. Pre or Co-requisite: CH 531 or UI 331. (2)

**CH 545. Organic Preparations and Characterization.** Preparation and characterization of organic compounds, including formulation of an organic reaction sequence, developing experimental procedures, and characterizing intermediates and products. One lecture and four lab hours. Prerequisite: CH 344 or consent of instructor. (3)

**CH 563. Advanced Inorganic Chemistry.** A course dealing with theoretical and descriptive inorganic and organo-metallic chemistry. Includes inorganic synthesis and characterization. Three lectures and one 2-hour lab. Pre or Co-requisite: CH 312 or consent of instructor. (4)

**CH 565. Inorganic Preparations.** Acquaints students with advanced techniques of inorganic synthesis. On demand. Prerequisite: CH 563. (2)

**CH 572. Environmental Estuarine Chemistry.** Offered summer only at the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. Department advisors have additional details. (4)

**CH 575. Chemical Instrumentation.** The theory and practice of modern instrumental methods of analysis: molecular and atomic spectroscopy, electrochemical techniques and separation science. Two lecture and four lab hours. Pre or Co-requisite: CH 312 or consent of instructor. (4)

**See University Studies (UI) listings for description of:**

**UI 331. UI 331. Found of Biochemistry.** (3)

**UI 443. Professional Experience in Chemistry.** (3)

## CHILD AND FAMILY (CF)

**CF 102. Relationships in the 21st Century.** Insights into relating to others through the framework of dating, committed relationships, family and friends. (3) (University Studies Course)

**CF 119. Child Growth and Development.** An introduction to the physical, cognitive and social-emotional characteristics of children from birth through the primary grade years. (Required for Child Development Associate certification) (3)

**CF 120. (Cross-listed as PY 120). The Child: Development from Conception to Adolescence.** An overview of the social, cognitive, physical and emotional changes that occur from conception to adolescence. Application of principles of development to the understanding of child development and behavior. (University Studies course) (3)

**CF 124. Children's Health, Nutrition and Safety.** Children's wellness through child development: Health, nutrition and safety utilizing principles of optimal practice in quality care and education environments. CPR, pediatric first aid required. (3)

**CF 200. Constructive Guidance and Discipline.** Examines the essentials of guidance in children's development, factors which influence guidance, major positive strategies for guiding children and youth. (3)

**CF 206. Introduction to Gerontology.** Concepts and issues of aging with emphasis on the research, theories, and resources available for the elderly. (3)

**CF 207. Gerontology Practicum I.** An orientation to the well elderly in our society and their needs involving supervised personal interaction with Eldercare

Center participants. One hour seminar and four hours in a supervised laboratory. Prerequisite: CF 206. (3)

**CF 209. Introduction to Family Systems.** Introduction to family systems theory including basic concepts and principles, subsystem alignments, and change mechanisms within the family framework. (3)

**CF 215. (CF 126). Observation: Perception and Process.** Introduction to the process of observation of children. Investigation of perception, observational strategies, anti-bias documentation, and anti-bias interpretation techniques. (3)

**CF 220. Young and Middle Adulthood.** Developmental stages, milestones and processes relevant to young and midlife adults. Special emphasis on the changing nature of intimacy and relationships. Prerequisite: CF 120. (3)

**CF 233. Creative Thought and Expression in Children.** Development of creative expression in children. Theoretical foundations of aesthetics; exploration of integrated arts, music, movement, drama, nature and visual arts.(3)

**CF 250. Family Childcare: Feasibility and Management.** Skill development for determining feasibility, management and operation of a profitable childcare business. (3)

**CF 280. (CF 290/291). Learning Theory and Application: Preschool.** Planning and implementing developmentally appropriate care and education experiences for preschool children. Includes supervised laboratory. (3)

**CF 285. (CF 316/317). Learning Theory and Application: Infants and Toddlers.** Planning and implementing developmentally appropriate care and education experiences for infants and toddlers. Supervised laboratory. (3)

**CF 300. Parent Education.** Involving parents from diverse backgrounds in educating young children; responsive communication and organizational skills; identifying and implementing learning strategies appropriate for parents. (3)

**CF 306. History and Theory of Child Development.** The history of child development theories and philosophies that have influenced the field. Current program practices, comparative educational and interactional implications. (3)

**CF 310. School Age Child Care.** School-age child care programming and administration. Theories and program models; developmentally appropriate practice and environments; assessment of program effectiveness. Prerequisites: CF 120. (3)

**CF 315. Administration of Programs for Children and Youth.** Introduction to program operation priorities and resources for administration of child and youth programs, including standards and policy analysis. (3)

**CF 320. Adult Life Skills Education.** Overview of andragogy and adult learning style. Content preparations of comprehensive life skills topics and application within the context of families. Two hours lecture; two hours lab. Prerequisite: CF 300 (3)

**CF 330. Middle Childhood and Youth Issues.** Examines the critical issues associated with the developmental periods by exploring family context, community influence, and the historical-cultural transfusion of values and norms. (3)

**CF 340. Family Policy Law and Advocacy.** Family units as legal institutions; history and development of family law principles; overview of public policy process; family advocacy across the lifespan. Prerequisites: CF 102; CF 209; junior standing; or consent of instructor. (3)

**CF 350. Assessing and Teaching Young Children.** Experiential learning in child development and care (birth through five). Observation, assessment, curriculum, family involvement processes. Requires TB test, background check, infant-child CPR/first aid. Prerequisites: CF 285. (3)

**CF 402. Marriage Interactions.** Study of interactions of marriage partners at different stages of marriage with emphasis on developing communication and decision-making skills. (3)

**CF 405. Special Population Practicum.** Professional supervised placement in centers serving young adults/adult special populations. Prerequisites: CF 300 and CF 320; or six hours in human service course; or consent of instructor. (3)

**CF 410. Culture, Ethnicity and the Child.** Concepts and issues related to culture and ethnic distinctions of the developing child and family. (3)

**CF 415. Legal Risks and Administrative Decision-Making in Child and Youth Programs.** Introduction to legal and fiscal frameworks: human protection and rights, preventing lawsuits, program safety, privacy and confidentiality, and program accountability. (3)

**CF 420. Administrator Leadership and Advocacy.** Quality indicators of program leadership; criteria for leadership and advocacy; administrative role in program vision, evaluation, accountability, and continuous improvement. (3)

**CF 430. Parent-Child Interaction.** A study of the parent child relationship and the influence the role of

parent has upon the growth and development of the child with special focus on differential impact of mothers and fathers. Prerequisites: CF 209. (3)

**CF 475. Action Research for the Practitioner.** Investigate problems; design and conduct research studies that provide meaningful and immediate solutions. (3)

**CF 480. Child Development Career Internship.** Child development career internship-120 hours. Focus: child observation, assessment, curricular/service plans, family involvement; practitioner career development. May receive up to 6 hours credit. (3-6)

**CF 495. Interagency Collaboration.** Interdisciplinary service practices for children, adolescents, and their families across a variety of systems or care. (3)

**CF 506. Theories and Issues in Child Development.** This course examines the theoretical constructs of child development and comparative educational and interactional implications. Prerequisite: CF 120. (3)

**CF 509. Child Life Services.** Analysis of the reactions of children to hospitalization. Discussion of clinical skills related to developmental and psychosocial care of hospitalized children. (3)

**CF 512. Family and Community Resources.** Resource identification, assessment, organization and referral techniques appropriate for professionals working with all ages and all families. Prerequisite: Junior standing or consent of instructor. (3)

**CF 517-518. Gerontology Practicum.** An advanced supervised field experience which focuses upon the administration, staff, schedule, and operation of programs for the elderly. Prerequisites: CF 206; CF 207; or 6 hours of related courses and/or experiences. (2-3)

**CF 520. Family Assessment.** Overview of strategies and tools necessary for assessment of the family system. Administration and evaluation of assessment process. Prerequisites: CF 102; CF 209; CF 402; CF 430; or consent of instructor. (3)

**CF 530. Research and Issues.** Overview of the issues, methodology and conclusions of classical and contemporary research as it relates to children's development. Research will be applied to parenting and to the classroom. (3)

**CF 531. Basic Principles of Applied Behavior Analysis.** Basic principles, procedures, and ethical considerations from the science of Applied Behavior Analysis. Includes history, technical terms, definitions and procedures to teach new behaviors and modify existing behaviors. (Required for ABA certification). (3)

**CF 532. Behavior Assessment and Data Analysis.** Measuring various dimensions of behaviors, functional relationships between independent and their dependent variables within applied settings; designing, conducting and evaluating single-subject research; developing assessment strategies and data sheets. (Required for ABA certification). (3)

**CF 533. Strategies for Behavior Interventions and Change.** Empirically-validated behavior interventions and applied behavior analytic techniques within the context of a variety of applied settings, with considerations of ethics in for their selection and use. (Required for ABA certification). (3)

**CF 534. Supervised Field Experience I.** Supervised independent field-work in settings that apply basic principles of Applied Behavior Analysis under supervision of a board certified ABA analyst. (Required for ABA certification). (Required for ABA certification). (3)

**CF 535. Supervised Field Experience II.** Advanced supervised independent field-work in Applied Behavior Analysis under supervision of a board certified ABA analyst. (Required for ABA certification). (3)

**CF 536. Advanced Applied Behavior Analysis.** An in-depth study of principles assessment procedures, and intervention strategies in applied behavior analysis along with ethical considerations that surround these topics. (3)

**CF 537. Special Issues and Topics in Applied Behavior Analysis.** Advanced coverage of special topics within the field of Applied Behavior Analysis and its applications in a variety of educational and clinical settings to address specific issues. (3)

**CF 565. Family Service Internship.** Capstone professional internship in a human service agency, program or organization. Criminal background check required. Prerequisites: CF 207, CF 340, CF 405, CF 520 with grades of 'C' or higher; senior standing with a cumulative GPA of 2.00; or consent of instructor. (6)

## **CHINESE (CN)**

**CN 101. Beginning Chinese.** Fundamentals of the Chinese sound system, grammar, and vocabulary. Reading and writing with basic Chinese characters. Introduction to the Chinese culture. (3)

**CN 102. Chinese II.** Continuation of CN 101. Expands on the grammar and vocabulary of CN 101. Continuation in the practice of reading and writing Chinese. (3)

## **COACHING EDUCATION (CG)**

**CG 205. Coaching of Baseball.** Introduction to the coaching of baseball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

**CG 210. Coaching of Basketball.** Introduction to the coaching of basketball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

**CG 215. Coaching of Football.** Introduction to the coaching of football: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

**CG 220. Coaching of Softball and Volleyball.** Introduction to the coaching of softball and volleyball: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (3)

**CG 225. Coaching of Track and Field.** Introduction to coaching each event in track and field. Emphasis on organization of a team and conducting events. (2)

**CG 235. Coaching of Soccer.** Introduction to the coaching of soccer: fundamental skills, offensive systems, defensive systems, drills, practice organization, and scouting techniques. (2)

**CG 400. Coaching Administration.** Examination of the administrative and communication aspects of the coaching profession. Prerequisite: Senior standing. (3)

**CG 470. Coaching Practicum.** Participation in an approved school athletic program. Emphasis on planning, goal setting, and season and within season training programs. Prerequisites: PE 220; PE 235; PE 341; appropriate coaching course; physical education major or coaching minor. (3)

## **COMMERCIAL PHOTOGRAPHY (PG)**

**PG 284. Photography Fundamentals.** Study of photographic fundamentals, while practicing the techniques of black-and-white photography, film developing, and printing in the darkroom. (University Studies course) (3)

**PG 285. Commercial Photographic Lighting.** Employ photographic lighting in a variety of situations. Traditional and digital approaches to photography. Emphasis on commercial applications. Prerequisite: PG 284. (3)

**PG 286. Commercial Studio Photography.** Employ photographic techniques from previous courses

to commercial studio practices. Emphasis on principles/practices of studio photography for commercial applications. Prerequisite: PG 285. (3)

**PG 300. Advanced Lighting Technology.** Advanced lighting techniques and concepts such as high key, low key, family of angles, lighting ratios, diffusion/concentration, surface appearances, reflection, refraction, filtering, filling and cutting to achieve desired photographic effects. Ambient lighting, studio lighting and combination lighting setups for objects and architectural subjects will be explored. Prerequisite: PG 286. (3)

**PG 325. Practices in Commercial Photography.** Topics include photography copyright laws, metadata, photographers' insurance, estimating, bidding, contracting, fee negotiation and invoicing practices. Prerequisite: PG 285. (3)

**PG 384. Commercial Photography I.** Study of photographic techniques and post-production using software for creative problem-solving and concept development for commercial clients. Prerequisite: PG 285. (3)

**PG 484. Commercial Photography II.** Study of digital printing technologies for photography and production of a portfolio book for a desired client. Development of a personal vision. Prerequisites: PG 286; PG 384. (3)

## **COMMUNICATION DISORDERS (CD)**

**CD 110. Language and Culture of the Deaf.** The study of the deaf culture and community, including an introduction to sign language. (University Studies course) (3)

**CD 211. Anatomy and Physiology of the Speech Mechanism.** The study of the structures and functions of speech and hearing systems. Analysis of how normal speech structures function to produce speech. Includes introduction to methods used for speech behaviors. Three hours lecture and two hours lab. Prerequisites: BS 103; sophomore standing. (4)

**CD 225. Phonetics.** The study of clinical and linguistic phonetics. Prerequisite: sophomore standing. (3)

**CD 230. Introduction to Communication Disorders.** A survey of disorders of communication. Emphasis on the nature and causes of the disorders and introduction to the general principles of assessment and treatment. Includes a 1 hour laboratory for completion of observation hours. Prerequisite: sophomore standing. (4)



**CD 340. Normal Speech and Language Development.** The study of speech sound development and the acquisition and development of child language based on content, form and use. Pre- or corequisite: CD 230; sophomore standing. (3)

**CD 371. Anatomy and Physiology of the Hearing Mechanism.** Basic course in hearing science including the physics of sound, anatomy, and physiology of the hearing mechanism, theoretical aspects of the hearing mechanism. Prerequisites: CD 211; CD 225; CD 340. (3)

**CD 402. Clinical Practicum in Communication Disorders.** Combined lecture and supervised clinical experience in managing children and adults with communication disorders. A minimum of 30 clock hours must be obtained for the course. Prerequisite: CD 406. (3)

**CD 406. Service Delivery in Communication Disorders.** Study of materials and techniques used in managing children and adults with communication disorders; service delivery, report writing, basic clinical intervention techniques. Prerequisites: CD 211; CD 225; CD 340. (4)

**CD 411. Nature of Assessment and Intervention of Speech and Language Disorders.** The study of etiology, prevention, assessment and intervention in articulation, voice, resonance, fluency and language disorders. Prerequisites: CD 211; CD 225; CD 340. (5)

**CD 426. Hearing Disorders: Audiological Assessment.** Basic course in diagnostic audiology including instrumentation, calibration, case history interview, pure-tone audiometry, speech audiometry, acoustic immittance, electrophysiologic and audiometric interpretation. Prerequisite: CD 371. (3)

**CD 461-463. Independent Study.** Individual study in speech pathology, or sciences basic to speech. Prerequisite: consent of department chairperson and college dean. (1-3)

**CD 510. Multicultural Issues in Communication Disorders.** Introduction to the complex relationships existing between language, society, and communication disorders. A difference versus disorders approach will be utilized in considering communicative issues. Assessment and intervention approaches will also be discussed. Prerequisites: CD 211; CD 225; CD 340. (3)

**CD 525. Audiological Rehabilitation.** Management of hearing impairment and auditory-based learning disabilities in children and adults including psychosocial, technological, educational, and cultural aspects. Pre- or corequisite: CD 426. (3)

**CD 541. Fluency Disorders.** Etiologies, comprehensive assessment and treatment of a variety of fluency disorders, primarily identified by stuttering behaviors in children and adults. Prerequisites: CD 211; CD 225; CD 340. (3)

## COMMUNICATION STUDIES (SC)

**SC 001. Exit Interview.** Required completion in last semester of attendance. Interview with department chairperson regarding student's academic experience in major. (0)

**SC 105. Fundamentals of Oral Communication.** The development of proficiency in oral communication through the study of rhetorical theories, principles, and strategies. (University Studies course) (3)

**SC 107. Online Oral Presentations.** A course in public presentations adapted to the online environment. Limited to online majors. (University Studies course) (3)

**SC 155. Interpersonal Communication.** Consideration of the elementary principles involved in effective person to person communication. (University Studies course) (3)

**SC 200. Advanced Public Speaking.** Designed to extend skills acquired in SC 105 through study of different types of speeches for various occasions. Prerequisite: SC 105 or consent of instructor. (3)

**SC 215. Intercultural Communication.** Study of such cultural variables as language, values, institutions, traditions, customs and nonverbal behavior on the communication process. (3)

**SC 310. Speech Writing.** Theory and practice of writing the spoken word. Special attention given to matters of style, structure and development with an emphasis on manuscript speaking. Prerequisite: SC 105 or consent of instructor. (3)

**SC 314. Argumentation and Problem Solving.** Study of argumentation and decision-making in questions of controversy and public policy (i.e. law, business, social action, politics, education). (3)

**SC 320. Group Communication and Decision-Making.** Principles of group communication and decision-making. Development of skills necessary for effective participation in group settings. (3)

**SC 330. Corporate and Professional Communication.** The study of basic communication principles and the opportunity to apply those principles to typical business and professional communication situations. (3)

**SC 335. Interviewing: Principles and Practices.** A study of the basic principles of interviewing used in

informational, persuasive, employment and appraisal interviews. Extensive practice in questioning techniques, structuring and conducting various types of interviews. Prerequisite: 3 hours of Communication Studies. (3)

**SC 355. Relational Communication Strategies.**

Study of concepts and theories of communication strategies in building and maintaining relationships, with emphasis upon improving communication in the workplace. (3)

**SC 360. Experiential Communication Projects.**

Provides students with experiential learning opportunities in communication that include public performance (debate and forensics), teaching internships, consulting, and public event planning and promotion. (1-3)

**SC 406. Communication Principles of Negotiation and Conflict Management.** Study of the utility of negotiation and mediation in community, interpersonal, labor/management, legal, commercial and international disputes. (3)

**SC 463. Independent Study.** Individual study in communication principles and research. Prerequisite: Consent of department chairperson; senior standing and 2.75 GPA. (3)

**SC 482. Special Problems in Communication Studies.** Seminar designed for in-depth study and research of a specific aspect of communication studies. Content varies depending on topic. May be repeated for credit. Prerequisite: 75 credit hours or consent of department chairperson. (1-3)

**SC 483. Internship in Communication Studies.** Supervised work with professionals off-campus in communication studies. Prerequisites: 75 hours; 18 hours of speech communication; consent of department chairperson. (3)

**SC 496. Practicum in Communication Studies.** Practical work in corporate communication on campus. Prerequisites: 75 hour with 18 hours in Communication Studies; consent of department chairperson. (3)

**SC 510. Leadership and Team Building.** A study and survey of leadership theories and concepts of team building. Emphasis on communication competencies necessary for successful leadership and teamwork within the organizational culture. (3)

**SC 560. Organizational Communication.** Study of communication functions and networks in organizations. Emphasis on leadership functions and principles needed for effective management of organizational communication processes. Prerequisite: 3 hours of Communication Studies. (3)

**See University Studies (UI) listings for descriptions of:**

**UI 301. Managerial Communication Processes.** (3)

**UI 320. The Modern Presidency.** (3)

**UI 345. Nonverbal Communication.** (3)

**UI 423. Political Communication.** (3)

**UI 425. Persuasion.** (3)

**UI 504. Leaders of Social Change.** (3)

## **COMPUTER AND MULTIMEDIA GRAPHICS (GM)**

**GM 180. Introduction to Technical Graphics.**

Introduction to technical graphics and visual communication technologies. (3)

**GM 200. Vector and Bitmapped Graphics for Industry.** Software, concepts, principles, and elements of bitmapped graphics for multimedia design. Prerequisite: GM 180. (3)

**GM 282. Vector Graphics.** Design/create vector based illustrations and design documents for online media and commercial print; corporate design and vector techniques using Bezier curves; graphics workflow and file management. Prerequisite: GM 200. (3)

**GM 320. Graphic User Interface Design.** Use of industry software for preparation of static based internet content. Principles include: content design, type and layout. Focus on HTML and CSS for internet design and publishing. Prerequisite: GM 282. (3)

**GM 326. Interactive Multimedia.** Creation of time based interactive content for the internet while introducing multimedia content design. Use graphic design applications and database applications to produce dynamic internet content. Prerequisites: GM 320; MN 260. (3)

**GM 380. 3D Modeling for Animation Production.** Introduction to 3D modeling and animation using industry software. Course addresses preproduction, character design, polygonal components, animation, UV layout, shaders, lighting and rendering as required in the production of computer 3D animation for commercial markets. Prerequisite: GM 200. (3)

**GM 385. HD Video for Multimedia.** High definition digital video for multimedia with focus on developing videos for commercial applications for exporting to online and optical/electronic media formats. Prerequisite: GM 200. (3)

**GM 386. Integrative Multimedia and Animation.** This course is designed as an introduction to multimedia software and hardware. Topics to be covered are the integration of character animation, text, graphics, and sound. Prerequisite: GM 282. (3)

**GM 480. 3D Animation Pipeline.** Builds on students' knowledge of applied 3D product modeling and animation to learn complex model topology, shader networks, lighting, virtual skeletons, dynamics and project management for 3D animation in commercial (industrial) applications. Prerequisite: GM 380 with a grade of "C" or higher. (3)

**GM 490. Advanced Graphics Projects.** Allows students to utilize the skills required while completing their technical graphics courses. Courses stresses problem-solving, critical analysis, application of concepts, principles and creative techniques as taught in the Computer and Multimedia Graphics program. Prerequisites: GM 326; GM 480; PG 384; senior standing. (3)

**GM 525. Virtuality in Gaming.** Modeling techniques using sub division, non-uniform rational b-splines, polygons and displacement mapping for creation of immersive virtual spaces for gaming environments. Two hours lecture and two hours lab. Prerequisite: GM 480 or consent of instructor. (3)

**GM 580. Motion Capture Technology.** Motion capture and key frame technology for developing applications including gaming. Other topics include software workflow, forward and inverse kinematic rigging, advanced blend shapes, skinning and modeling surface deformations Two hours lecture and two hours lab. Prerequisite: GM 480. (3)

**GM 585. Computer Special Effects.** Examining techniques involved in developing computer generated special effects based on simulating physical concepts. Two hours lecture and two hours lab. Prerequisite: GM 525. (3)

## COMPUTER SCIENCE (CS)

**CS 003. Computer Science Assessment.** Required of all Computer Science and Computer Information Systems majors. Credit/no credit. Prerequisite: Computer Science or Computer Information Systems major; enrolled in final semester of degree program. Co-requisite: CS 495. (0)

**CS 117. The Information Age.** The impact of information technology on social structures, political, economic, philosophical, and social dimensions. (3)

**CS 120. Introduction to Computer Science.** Broad overview of the field of Computer Science, including algorithms, mathematical foundations, computer logic and architecture, systems software, high level programming languages, applications, and social issues. Lab experience with simulators and applications. Two hours lecture, two hours lab. (3)

**CS 125. Computer Programming Logic.** Logic concepts in computer programming and how they can be used in several application environments. Two hours lecture and two hours lab. (University Studies Course) (3)

**CS 155. Computer Science I.** Fundamental principles of computer science and software engineering concepts, including working from software requirements in order to design, implement, and test programs; introduction to programming in a structured high-level language; significant hands-on experience with programming using a language development system and computer operating system. Three hours lecture and two hours lab. Prerequisite: MA 134 or equivalent Logical Systems course with minimum grade of 'C' or high school equivalent. (4)

**CS 177. Programming for Scientists and Engineers.** Introductory course on computer programming for science and engineering majors. Covers design and development of computer programs using an appropriate language for solving simple problems in science and engineering. Prerequisite: MA 134 with a minimum grade of 'C.' (3)

**CS 245. Discrete Structures I.** Introduction to discrete structures as used in computer science. Topics include proof techniques, fundamental structures and basic algorithm analysis. Prerequisite: CS 155 or IS 130 with a minimum grade of 'C.' (3)

**CS 265. Computer Science II.** Review of static data structures. Introduction to recursion, abstract data types, classes, and object oriented programming. Implementations, as abstract data types, of the data structures stacks, queues, linked lists and binary trees. Study of the Standard Template Library. Applications of these data structures. Three hours lecture and two hours lab. Prerequisite: CS 155 with a minimum grade of 'C.' (4)

**CS 280. Computer Systems.** Computer hardware and software systems including computer organization, assembly language, and operating systems. Prerequisite: CS 245 with a minimum grade of 'C.' (3)

**CS 300. Computer Science III.** Continued study of data structures, algorithms, object orientation, and standard libraries with an emphasis on practical programming. Three hours lecture and two hours lab. Prerequisite: CS 265 with minimum grade of 'C.' (4)

**CS 315. C and the Unix Environment.** Course provides a thorough introduction to the UNIX operating systems and extensive programming in C. Two hours lecture and two hours lab. Prerequisite: CS 265 with a minimum grade of 'C.' (3)

**CS 331. Applications Programming.** An introduction to the Java programming language for programmers. Prerequisite: CS 300 with a minimum grade of 'C'. (3)

**CS 345. Discrete Structures II.** A continuation of the study of discrete structures in computer science. Topics may include graph theory, computational models, proof of correctness and algorithm analysis. Prerequisites: CS 265; CS 245 or MA138; MA 140 with minimum grades of 'C'. (3)

**CS 350. Analysis of Algorithms.** A continuation of the study of data abstractions and the algorithms for their manipulation. Emphasis on the analysis of non-numeric algorithms. Prerequisite: CS 300 and CS 345 with minimum grade of 'C'. (3)

**CS 360. Computer Organization.** The structured organization of computers with emphasis on the conventional machine level, the microprogramming level, and contemporary aspects of computer architecture. Prerequisites: CS 265 and CS 280 with minimum grade of 'C'. (3)

**CS 373. Introduction to Game Programming.** Explore the fundamentals of 2D game programming, using a high-level programming language and appropriate tool(s). Program and create 2D graphic games. Prerequisite: CS 300 with a minimum grade of 'C'. (3)

**CS 375. Computer Graphics.** Study of principles, problems, and applications of computer graphics in two and three dimensions. Prerequisite: CS 300 with a minimum grade of 'C'. (3)

**CS 380. Computer Operating Systems.** Explores the concepts and implementation of operating systems. Prerequisite: CS 280, CS 300 and CS 315 with minimum grades of 'C'. (3)

**CS 390. Programming Languages.** Properties of algorithmic languages including scopes of declarations, storage allocation, grouping of statements, runtime behavior; introduction to Language and BNF Grammars. Prerequisite: CS 300 with minimum grade of 'C'. (3)

**CS 440. Database.** Basic concepts of database and database architecture. Discussion of entity-relationship and relational database models. Study of the SQL query language. Study of database design methodology. Two hours lecture and two hours lab. Prerequisite: CS 300 with minimum grade of 'C'. (3)

**CS 445. Software Engineering I.** Provides an in depth understanding of the principles and techniques used in the analysis and design aspects of developing applications systems. Apply techniques and tools to produce the system artifacts pertaining to analysis

and design. Prerequisites: Senior standing; consent of department; CS 300 with a minimum grade of C; Pre- or corequisite: CS 315. (3)

**CS 455. Topics in Applications Programming.** Advanced topics in applications programming. Prerequisites: CS 300 and CS 315 with minimum grades of 'C'. (3)

**CS 473. 3D Game Programming.** Explore the algorithms, data structures, and techniques in 3D computer game programming. Create complex 3D games utilizing a programming language. Prerequisite: CS 373 or CS 375 with a minimum grade of 'C'. (3)

**CS 480. Data Communications.** Principles of data communication and computer networks. Prerequisite: CS 315 with minimum grade of 'C'; CS 300 strongly recommended. (3)

**CS 481-483. Problems in Computer Science.** Directed study of special topics in computer science through seminars, workshops, forums, etc. (1-3)

**CS 485. Internship in Computer Science.** A supervised learning and work experience in professional computer science which augments computer science and information systems courses taken on campus. May be repeated once. On demand. No credit on Computer Science or Computer Information Systems major or minor. Credit/no credit only. Prerequisites: CS 300; 75 hours completed; 2.75 cumulative GPA; 15 hours CS or IS courses with 3.0 GPA. (3)

**CS 490. Artificial Intelligence.** An introduction to Artificial Intelligence with LISP and PROLOG covering fundamental constructs and algorithms, various knowledge representations and advanced topics. Prerequisite: CS 300 with a minimum grade of 'C' and two upper level CS courses. Three hours lecture; two hours lab. (4)

**CS 491-493. Independent Study in Computer Science.** Intensive study of computer science topics under faculty supervision. (1-3)

**CS 495. Senior Seminar.** The impact of computing on society; social, professional, ethical, legal and security and privacy issues and responsibilities in the computing field; lifelong learning in the computing field. Prerequisite: Computer Science or Computer Information Systems major; enrolled in final semester of degree program; WP 003. Co-requisite: CL 004. (1)

**See University Studies (UI) listings for descriptions of:**

**IU 315. Ethics in the Cyber World (3)**

## CONSTRUCTION MANAGEMENT (CM)

### CM 100. Introduction to Architectural Drafting.

A beginning residential architectural drafting course that presents basic elements of manual drafting including sketching, equipment use and techniques, scales, measurement, dimensioning, and the basic drawings found in residential plans. Four hours lab and one hour lecture. (3)

**CM 126. Computer Aided Architectural Drafting.** Use of computer-aided design software, hardware and systems to solve problems in graphics. Using AutoCAD to do: simple engineering drawings, basic floor plans, pictorials, dimensioning, elevations, and symbols will be covered. (3)

**CM 226. Residential Architectural Drafting and Design.** Computer aided drafting and design related to detailed working drawings of residential buildings including site, foundation, floor, elevations, sections with emphasis on structural components and construction standards and practices. Prerequisite: CM 126. (3)

**CM 243. Construction Methods and Materials.** Print reading and the study of the materials, procedures and processes utilized in the building construction industry. (3)

**CM 310. Construction Codes and Compliance.** Study of the requirements and applications of the International Code Council codes, including the International Building Codes, International Residential Code and the International Mechanical Code, and the National Electrical Code. Prerequisite: CM 126; CM 243. (3)

**CM 315. Construction Contracts and Legal Issues.** Construction and design contracts, rights, obligations and liabilities of parties engaged in construction that flow from the contracts, laws and business practices common to the construction industry. Prerequisite: CM 243. (3)

**CM 320. Construction Cost Estimating.** Preparation of bid proposals including quantity take-offs, methods of pricing materials, equipment, and labor for commercial construction projects. Prerequisites: CM 243; MA 134. (3)

**CM 322. Commercial Architectural Drafting and Design.** Introduction to the computer aided drafting and design of commercial and light commercial construction including materials, floor plan design and layout, print reading, mechanical systems, schedules, and the various drawings associated with commercial construction. Prerequisite: CM 226. (3)

**CM 325. Building Mechanical and Electrical Systems.** Overview of the principles and applications of all basic mechanical and electrical systems, with basic design data examples, exploring emerging technology and environmental issues, and referencing essential engineering calculations and data to illustrate principles. Prerequisites: CM 226; CM 243; CM 310. (3)

**CM 330. Construction Planning and Scheduling.** Construction project planning and scheduling principles and practices used by contractors to control time and cost. Prerequisite: CM 243. (3)

**CM 343. Construction Surveying and Testing.** Continuation of the study of materials, procedures, and processes utilized in construction as well as land surveying and testing of materials and soils for residential and commercial construction applications. Prerequisites: CM 126; CM 243; MA 133. (3)

**CM 410. Construction Project Administration.** Construction project administration principles and practices. Managing time, people, equipment and costs to build a project on time and to bid. Prerequisites: CM 315; CM 320; CM 330. (3)

**CM 510. Building Information Modeling.** Concepts of Building Information Modeling including creating computer models of buildings for scheduling, sequencing, cost estimating, management, and simulation of construction projects. Two hours lecture; two hours lab. Prerequisite: CM 226. (3)

## CRIMINAL JUSTICE (CJ, CO, LE)

**CJ 100. Introduction to Criminal Justice.** General survey of federal, state, and local agencies involved in administration of criminal justice including police, courts, and corrections. (3)

**CJ 110. Introduction to Law Enforcement.** Philosophy, history and problems of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies will be examined. Pre or Co-requisite: CJ 100. (3)

**CJ 125. Introduction to Corrections.** Introduces students to problems and the diversity of emphasis being placed on correctional programs. (3)

**CJ 220. Criminal Law.** Examines substantive law, classification of offenses and matters that affect criminal responsibility. Prerequisite: CJ 100. (3)

**CJ 230. Correctional Institutions.** Study of prisons and other correctional institutions. Traces the history, development, types, objectives, and organizations and administration of penal systems. Prerequisites: CJ 100; CJ 125. (3)

**CJ 310. Advanced Police Administration.** Supervision and personnel management practices applied within the law enforcement agencies, first line supervision and middle-management in police agencies. Prerequisites: CJ 100; CJ 110. (3)

**CJ 330. Criminal Investigations.** Examination of techniques employed in the investigation of crimes and the professional application of these techniques. Prerequisites: CJ 100; CJ 110; CJ 220. (3)

**CJ 335. Police Operations.** An examination of the operational components of contemporary police organizations. Examines the development of operational goals and objectives, development of programs and applicability of research findings to strategies. Prerequisites: 9 hours of CJ courses, including CJ 100 and CJ 330. (3)

**CJ 350. Criminalistics.** Introduction to evidence collection and techniques used in the crime laboratory and their relation to each other. Emphasis on scientific and legal requirements for evidence collection and handling. Prerequisites: CJ 330; 5 hours of any natural science course. (3)

**CJ 355. Constitutional Rights of Inmates.** An analysis of the rights of prisoners as guaranteed by the constitution and interpreted through specific cases. Prerequisites: CJ 100; CJ 125. (3)

**CJ 365. Community Based Corrections.** Study of group homes, work release programs, halfway houses, work-study projects and other community based programs. Prerequisites: CJ 100; CJ 125. (3)

**CJ 370. Juvenile Justice.** Designed to acquaint students with the problems of dealing with juveniles in the criminal justice system. Prerequisite: CJ 100. (3)

**CJ 375. Criminal Typologies and Victimology.** Study of criminal and victim behaviors and subtypes for specific crimes, including personality and social characteristics, motivations, methods and techniques. (3)

**CJ 400. Crisis Management and Conflict Resolution.** Intervention strategies utilized to cope with psychosocial human interaction problems in the criminal justice system. Crisis management, conflict resolution and mediation practices will be examined and explored. Prerequisite: CJ 100. (3)

**CJ 422. Criminal Procedure.** Survey of the legal aspects of criminal procedure from arrest through appeal. Focuses on the law of arrest, search and seizure and the nature of legal proof at criminal trial. Prerequisites: CJ 100; CJ 110; CJ 220. (3)

**CJ 425. Planning and Research in Criminal Justice.** Role and scope of planning and research in Criminal Justice organizations is examined. Prerequisite: CJ 100. (3)

**CJ 430. Policing in an Information Age.** Application and exploration of advances in technology as it relates to decision-making tools in policing today. Prerequisite: CJ 110. (3)

**CJ 435. Seminar.** Examines major problems currently facing the system. Discussion of proposed solutions to the problems identified. Prerequisite: CJ 100. May be repeated for credit. (3)

**CJ 440. Theories and Methods of Offender Rehabilitation.** Analysis and evaluation of current theories and methods of treatment and classification in the correctional environment. Prerequisites: CJ 100; CJ 125. (3)

**CJ 471-473. Independent Study.** (1-3)

**CJ 491. Internship in Criminal Justice.** Practical experience with field agencies. Credit/no credit. (6)

**CJ 499. Issues in Justice Administration.** Capstone course. Students will be given the opportunity to apply, in an integrative fashion, knowledge and skills acquired in their previous criminal justice courses. Prerequisite: CJ 425. (3)

**CJ 510. Comparative Criminal Justice Systems.** Study of the criminal justice systems of four major countries, including Great Britain, Japan and Sweden. Each country's differing philosophical and practical approaches to criminal justice are analyzed and compared.

**CJ 525. Crime and Criminal Justice Policy.** An examination of how crime and criminal justice programs become public agenda items through the process of coalition, building, implementation and adoption, and finally the scrutiny of evaluation. Current trends such as the Crime Bill and prison capacity examined. Intended as an overview of how crime policy is formulated and adopted into the American political agenda. Prerequisite: Introductory course in criminal justice or consent of instructor. Preferred background in criminal justice or social sciences. (3)

**CJ 535. Civil Law and Liability.** Study of the civil justice system, theories of civil liability in the law enforcement and corrections context. Prerequisite: CJ 100; CJ 220; CJ 355 or CJ 422; CJ 230 or CJ 310; senior standing; consent of instructor. (3)

**CO 491. Internship in Corrections.** Practical experience with field agencies. Credit/no credit. (6)

**LE 491. Internship in Law Enforcement.** Practical experience with field agencies. Credit/no credit. (6)

**See University Studies (UI) listings for descriptions of:**

**UI 300. Drugs and Behavior.** (3)

**UI 309. Crime and Human Behavior.** (3)

**UI 343. Transcultural Experience.** (3)

**UI 427. Service and Community** (3)

**CYBERSECURITY (CY)****CY 201. Introduction to Cybersecurity.**

Introduction to cybersecurity. Information assurance terminology, issue, policies, and secure system design. Computer forensics investigation, collection and analysis of data, and methodology. Prerequisite: CS 155. (3)

**CY 310. Information Security and Assurance.**

Essential components and features of an information security system. Methods of system attacks, intrusion detection and prevention. Business and operational issues in information security. Information assurance and trust. Design and construction of secure systems. Prerequisites: CS 265; CY 201; MA 464. (3)

**CY 320. Information Security in Systems**

**Administration.** Securing information through cryptographic and other means of access control. Security in administration of both Windows and Linux-based systems. Legal and policy issues. Prerequisites: CS 265; CY 201; TN 275. (3)

**CY 410. Web Applications Security.**

Development of secure web-based systems. Security mitigation strategies and secure coding. Penetration testing. Security in systems using advanced web technologies. Prerequisites: CY 320; IS 375; TN 375. (3)

**CY 420. Computer Forensics.**

Implementation of computer forensic methodology. File system analysis in Windows. Response techniques, evidence acquisition, timeline analysis, extraction and recovery of files and data. Dealing with as-yet-unknown malware. Prerequisites: CS 315; CY 310; CY320; ET 366. (3)

**CY 501. Introduction to Cybersecurity.**

Advanced overview of the field of Cybersecurity, information assurance terminology, security issues, applied cryptography as well as computer forensics applications and methodology. (3)

**CY 510. Information Security and Assurance.**

System security principles, components of system security, information assurance with high assurance software design. Cryptographic principles to design secure systems. Data protection at rest and in motion and evolution of challenges in information security. (3)

**CY 520. Information Security in Systems**

**Administration.** Security constructs in information systems for privilege separation and escalation. Secure software development process. Understanding of authorization models of software system. Security administration of networking elements, databases, operating systems and cloud based systems. (3)

**DANCE (DA)**

**DA 100. Dance Appreciation.** Develops ability to describe, analyze, interpret, and evaluate dance through exposure to writings, discussions, active learning dance experiences, and performances. (University Studies course) (3)

**DA 105. (Cross-listed as TH 105). Rehearsal and Production I.** Training and practical, hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. (1)

**DA 130. Ballroom Dance I.** Fundamental steps in ballroom dance, including the fox trot, waltz, tango, swing, and cha-cha. (1)

**DA 140. Body-Mind Conditioning I.** An activity-oriented exploration of the Pilates exercise program (the Physical-mind Method) and other body therapies. (1)

**DA 146. Swing Dance.** Course designed to introduce the basic steps of swing dance. Covers partnership technique, dance posture, basic six and eight count rhythms, and footwork patterns. May be repeated for credit. (1)

**DA 186. Beginning Jazz Dance.** Studio course designed for non-majors with limited experience in jazz dance. Course introduces the fundamentals of jazz dance technique while exploring differences in movement quality, energy and rhythm. May be repeated for credit (1)

**DA 211. Ballet I.** Level I ballet technique training for majors, minors, and non-major dancers. May be repeated for credit. (2)

**DA 219. Theory and Practice of Dance.** Theory, skill development and teaching techniques of folk, children's movements (basic rhythms/creative movement), recreational, ballroom, ballet, jazz, and aerobics. Laboratory class. (3)

**DA 221. Modern Dance I.** Level I modern dance technique training for majors, minors, and non-major dancers. May be repeated for credit. (2)

**DA 226. Jazz Dance I.** Level I jazz dance technique training for majors, minors, and non-majors with previous dance training. May be repeated for credit. (2)

**DA 236. Tap Dance I.** Level I tap dance technique training for majors, minors, and non-majors. May be repeated for credit. (2)

**DA 245. (Cross-listed as AR/MU/TH 245). Creating and Managing a Career in the Arts.** Introduction to business skills and management practices for success in the visual and performing arts. (3)

**DA 280. Movement Analysis.** Conceptual based exploration of human movement as the primary expression of Dance and Theatre. (3)

**DA 282. Movement Improvisation.** Explores the fundamentals of movement improvisations as instantaneous group composition and performance technique. (3)

**DA 290. Dance in World Culture.** Study of non-western dance styles and traditions around the world throughout history. (3)

**DA 305. (Cross-listed as TH 305). Rehearsal and Production II.** Advanced training and practical hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. (1)

**DA 311. Ballet II.** Level II ballet technique training for majors, minors, and experienced non-major dancers. Prerequisites: DA 211; consent of instructor. May be repeated for credit. (2)

**DA 321. Modern Dance II.** Level II modern dance technique training for majors, minors, and experienced non-major dancers. Prerequisites: DA 221; consent of instructor. May be repeated for credit. (2)

**DA 326. Jazz Dance II.** Level II jazz dance technique training for majors, minors, and experienced non-major dancers. Prerequisites: DA 226; consent of instructor. May be repeated for credit. (2)

**DA 336. Tap Dance II.** Level II tap dance technique training for majors, minors, and experienced non-major dancers. Prerequisites: DA 236; consent of instructor. May be repeated for credit. (2)

**DA 380. Choreography I.** Practice in the craft of choreography and utilization of formal structures to compose dances as works of art. May be repeated for credit. Prerequisite: DA 280; or consent of instructor. May be repeated for credit. (3)

**DA 411. Ballet III.** Level III ballet technique training for majors, minors, and junior-level non-major dancers. Prerequisites: DA 311; consent of instructor. May be repeated for credit. (2)

**DA 421. Modern Dance III.** Level III modern dance technique training for majors, minors, and junior-level non-major dancers. Prerequisites: DA 321; consent of instructor. May be repeated for credit. (2)

**DA 426. Jazz Dance III.** Level III jazz dance technique training for majors, minors, and junior-level non-major dancers. Prerequisites: DA 326; consent of instructor. May be repeated for credit. (2)

**DA 430. Principles of Teaching Dance.** An exploration of various methods used to teach dance in the community, private studios, or the K-12 school

system. Prerequisites: Two of 411, 421, or 426 and 280. May be repeated for credit. (3)

**DA 436. Tap Dance III.** Level III tap dance technique training for majors, minors, and junior-level non-major dancers. Prerequisites: DA 336; consent of instructor. May be repeated for credit. (2)

**DA 461-463. (Cross-listed as TH 461-463). Independent Study.** Individual study in theatre or dance. (1-3)

**DA 485. Choreography II.** Advanced study in the craft of choreography exploring various approaches to the choreographic process. Prerequisite: DA 380; or consent of instructor. May be repeated for credit. (3)

**DA 490. Dance History.** Study of dance styles and traditions throughout history, focusing on Western culture from 1500 – present. (3)

**DA 495. Dance Ensemble.** Lab dance class designed to enable the student to learn and perform choreography equivalent to a professional dance company. May be repeated for credit. (1)

**DA 498. (Cross-listed as TH 498). BFA Project.** Preparation, presentation, and assessment of a major artistic project. (2)

**DA 499. (Cross-listed as TH 499). Internship.** Practical involvement in a performing arts company/venue. Credit/no credit. (4)

**See University Studies (UI) listings for descriptions of:**

**UI 384. History of the Musical (3)**

**UI 433. Aesthetics of Movement. (3)**

## **EARLY CHILDHOOD EDUCATION (CE)**

**CE 330. Classroom Management.** Presents a preventative model of classroom management which includes comparison of various theories and discussion of general positive classroom practices. Corequisite: Early Childhood Block or permission of instructor. Prerequisite: ED 250. (3)

**CE 340. Family/School Collaboration in Early Childhood.** Emphasizes family systems theory as a guide to understanding, appreciating, and supporting diverse families; strategies for collaborating with all families. Corequisite: Elementary Block II or permission of instructor. (3)

**CE 365. Connecting Assessment and Curriculum in the Early Years (Birth-Age 8).** Studies assessment, including tests and informal methods such as observations and portfolios. Connects results to individual goals and classroom curricula. Corequisites: CE 366; CE 368. Prerequisites: Elementary Block II; CE 280; CE 285. (2)



**CE 366. Developing Curriculum in Early Childhood Education.** Presents developmentally appropriate principles, techniques and materials for use in early childhood programs, and includes field experience. Corequisites: CE 365; CE 368. Prerequisites: Elementary Block II; CF 280; CF 285. (4)

**CE 368. Early Childhood Education Field Experience.** Integration of appropriately designed field experiences with early childhood coursework taken in Early Childhood Block. Corequisites: CE 365; CE 366. Prerequisites: Elementary Block II; CF 280; CF 285. (3)

**CE 370. Language Development of the Young Child.** Normal language development; theory, sequence, relationship to overall child development, informal assessment, stimulation of language development, management of minor problems. Prerequisites: CF 280; CF 285. (3)

**CE 433. Student Teaching Experience I.** Professional practicum requiring demonstration of Teacher Work Sample Implementation in school settings. Under the direction of cooperating teachers and university supervisors. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (6)

**CE 434. Student Teaching Experience II.** Intensive professional practicum in school settings. Under the direction of cooperating teachers and university supervisors. Corequisite: EF 400. Prerequisites: In good standing in Teacher Education Program; successful completion in Student Teaching Experience I (CE 433). (6)

**CE 460. Alternate Student Teaching.** Professional practicum requiring demonstration of Teacher Work Sample Implementation in school settings. Under the direction of a cooperating teacher. (8)

**CE 499. Portfolio Review.** During Block IV Student Teaching, majors pursuing BS in Education - Elementary, Early Childhood, or Special Education - must successfully complete a Teacher Work Sample. (0)

**CE 530. Foundation of Early Childhood and Special Education.** In-depth study and examination of recent research findings affecting the education and development of young children with special needs. (3)

## **ECONOMICS (EC)**

**EC 101. Economic Problems and Policies.** An introduction to the domestic and international economic problems facing the United States today and an analysis of the policies designed to alleviate these problems. (University Studies course) (3)

**EC 201. Selected Topics in Economics.** Important, current or specific economic topics which may confront the individual personally or as a member of society. May be repeated up to three times. (1)

**EC 215. Principles of Microeconomics.** U.S. market economic system. Demand, supply, competition, pricing, resource allocation concepts applied to issues in business, labor, and public policy. Prerequisites: AD 101 or EP 100; MA 134 or equivalent. (University Studies course) (3)

**EC 225. Principles of Macroeconomics.** Economic concepts, institutions, theories and policies including study of national income, inflation, unemployment, banking system, money, growth and international economics. Prerequisites: EC 215 or AG 245. (3)

**EC 235. Free Market Economics.** Alternative methodology to conventional economics, praxeology, which stresses the deductive approach. Frequently referred to as the Austrian School, this approach dominates the analysis of the strongest proponents of free markets or laissez faire. (3)

**EC 335. Monetary Economics.** Analysis of money's role in the U.S. economy. Emphasis on the Federal Reserve system and monetary policy. Prerequisite: EC 225. (3)

**EC 340. Economics of Growth and Development.** Characteristics and problems of less developed countries. Criteria of growth and development with emphasis on strategies for development. Obstacles to economic growth and policies for promoting growth. Prerequisite: EC 225. (3)

**EC 344. (Cross-listed as EV 344) Environmental Economics.** Application of economic theory to problems faced by environmental managers and policy makers. Prerequisites: MA 134; EC 101 or EC 215. (3)

**EC 350. Development of Economic Thought.** The evolution of economic thinking from ancient Greece to modern times. Examination of the interaction between underlying social and cultural conditions and economic thinking. Prerequisite: EC 101 or EC 215. (3)

**EC 351. Applied Economic Models.** Introduction to the process of data collection, model construction, hypothesis testing and prediction used by economists and social scientists. Prerequisites: MA 134; EC 101, EC 215, or EC 225; any college-level statistics course. (3)

**EC 380. Labor Economics.** The determination of wages, employment and the quantity and quality of work is examined. Prerequisite: EC 225. (3)

**EC 381-383. Economics Internship.** Internship with a public agency or private business firm with approval of the Chair, Economics Dept. The field work

will provide first hand experience in the operations of organizations, institutions and firms. Prerequisites: 75 hours of college credit with fifteen hours in economics, including EC 215 and EC 225; a GPA of 2.50 overall; 3.0 GPA in economic courses; recommendation by the department chairperson or designee. (1-3)

**EC 387-389. Independent Study in Economics.**

Directed individual study of special interest areas in economics. Prerequisites: Approval of department chairperson; a minimum of 75 semester hours completed; a minimum of 10 semester hours in economics; a minimum overall 2.50 grade point average or a minimum 2.75 grade point average in economics. (1-3)

**EC 410. Macroeconomic Theory.** Analysis of an economy's overall level of output, employment and prices. Several schools of thought are considered. Prerequisite: EC 225. (3)

**EC 420. Microeconomic Theory.** Leading theories of value and distribution with an analysis of price and output determination for firms and industries under various market conditions. Prerequisite: EC 225. (3)

**EC 425. Industrial Organization.** The study of market structures in the U.S. economy. Applies microeconomic theory to industry studies, including elements of structure, conduct and performance. Prerequisite: EC 215. (3)

**EC 440. Regional Economic Growth and Development.** An examination of the economic forces influencing the performance of urban and regional areas, with a discussion of contemporary urban and regional economic problems. Prerequisite: EC 225. (3)

**EC 470. Public Sector Economics.** The financing of national, state and local governments. Prerequisite: EC 225. (3)

**EC 490. Business Forecasting.** Introduction to the various econometric forecasting techniques available to deal with economic and business prediction. Prerequisites EC 225; introductory statistics. (3)

**EC 498. Economics Seminar.** Assigned readings and a paper designed around a specific economic issue. Intended to integrate economic analysis and reasoning from both macro and microeconomic perspectives. Co-requisites/Pre-requisites: EC 410; EC 420. (1)

**EC 525. Public Policy Economics.** Economic analysis of the functions of government in a market economy. Prerequisite: EC 225. (3)

**EC 561. Managerial Economics.** Application of microeconomic theory to the practical problems faced by decision makers in business environment. Prerequisites: EC 215. (3)

**EC 580. International Economics.** Development and maintenance of trade between nations; trade

policies, exchange rate determination, financial activities involved. Prerequisites: Minimum grade of 'C' in EC 215, EC 225 and MA 134; senior standing. (3)

**See University Studies (UI) listings for description of:**

**UI 322. International Political Economy (3)**

**UI 349. Comparative Economic Systems. (3)**

**UI 366. Law and Economics. (3)**

**UI 371. Government and Business. (3)**

## **EDUCATION (ED)**

**ED 250. (EL 120, SE 202). Introduction to Teaching.** An introductory level course for any student who wishes to explore and investigate teaching as a career in the P-12 curriculum. (2)

**ED 251. (EL 210, SE 200). Introduction to Technology.** An introductory level technology course which allows teacher candidates to explore and gain knowledge about the integration and implementation of technology into P-12 curriculum. (2)

**ED 480-482. Independent Study in Education.** Directed individual study of problems and special topics in education. Open only to students pursuing the B.S. in Education degree. (1-3)

## **EDUCATIONAL FOUNDATIONS (EF)**

**EF 304. School and Society.** An introductory study of schooling as the principal institution by which American society educates its citizens for life in a democratic social order. Prerequisites: Admission to Teacher Education Program; Elementary or Secondary Block I; US 105 or US 107; PS 103. Co-requisite: Elementary or Secondary Block II. (2)

**EF 400. Seminar in Educational Issues for Student Teachers.** A seminar connecting student teaching and current educational issues in American schooling, requiring completion of TWS. Prerequisite: Secondary Blocks III. Co-requisites: SE 463/SE 464 or EL 433/EL 434 or CE 433/CE 434 or EX 471/EL 455. (1)

**EF 590. Foundation of Curriculum Development.** An exploration of the school curriculum; consideration will be given to the foundations, principles and issues, and the leadership needed to guide curriculum planning through curricular evaluation. For alternative certification only. (3)

**EF 591. History of American Education.** An examination of education in America from the colonial period to the present, focusing on educational ideas and practices in the context of American social and intellectual history. For alternative certification only. (3)

**EF 592. Philosophy of Education.** A study of the nature of philosophical inquiry in education. Course includes consideration of traditional and contemporary educational thought and the philosophical analysis of the problems of education For alternative certification only. (3)

**EF 596. Education in American Society.** An examination of education in the social structure of America concentrating on the social forces that affect education in a pluralistic society and on the educational functions of schools and other social institutions. For alternative certification only. (3)

## **ELECTRONICS TECHNOLOGY (ET)**

**ET 160. Basic Electricity and Electronics.** Properties and applications of electric circuit elements, meters, Ohm's and Kirchoff's laws; analysis methods; AC sources and impedance; magnetic circuits. Prerequisite: MA 134 or MA 135. (3)

**ET 162. DC Principles and Circuits.** A study of DC circuit analysis, circuit theorems, devices, meters, practical applications, and troubleshooting. Prerequisite: MA 134 or MA 135. (3)

**ET 164. AC Principles and Circuits.** A study of transient analysis of capacitors, inductors, node and loop analysis, phasors and AC circuit analysis. Prerequisites: ET 162; MA 140. (3)

**ET 245. Logic Circuits.** Analysis, design and application of digital devices and circuits including: gates, flipflops, counters, arithmetic circuits, multiplexing, demultiplexing, encoders, decoders, latches, and FPGA's. (3)

**ET 260. Electronic Circuit Design and Analysis.** Analysis, design, and application of diodes, BJTs, JFETs, MOSFETs, op-amps and other semiconductor devices; and various operational amplifier circuits. Prerequisite: ET 164 (3)

**ET 261. Residential Wiring.** Study of the design and application techniques of residential electrical wiring consistent with the National Electric Code. (3)

**ET 262. Electronic Circuit Design and Analysis II.** Fundamentals, analysis, design, computer simulation and application of power amplifiers, filters, oscillators, operational amplifiers, solid-state switching, thyristors, and voltage regulators. Prerequisite: ET 260. (3)

**ET 304. Fundamentals of Programmable Logic Controllers.** Introduction to Programmable Logic Controls (PLC), principles of how PLC's work and providing practical information and skills about installing, programming, and troubleshooting. Prerequisite: ET 160 or ET 162. (3)

**ET 361. Communications Systems.** A study of basic theory, devices, circuits, and systems for the transmission and reception of AM, FM, and PM signals, transmission lines, microwave measurements, wave guides, coaxial lines, tees, couplers, resonant cavities, mixers, detectors, and switches used in communication systems. Prerequisite: ET 262 and PH 120. (3)

**ET 365. Industrial Electrical Power.** Generation, distribution and consumption of electric power. Topics include electric power fundamentals, three phase systems, power factor correction, magnetic systems, and transformers. Prerequisites: ET 160 or ET 162; PH 120. (3)

**ET 366. Microcontrollers.** Introduction to microcontroller based systems including system architecture, instruction set, addressing modes, system timing, system interfacing, and troubleshooting. Prerequisites: ET 245 or EP 305; MN 260. (3)

**ET 367. Motor Control and Drive Systems.** Study of AC and DC motors, modern power semiconductor devices, converters, voltage-fed inverters, pulse width modulation techniques, DC motor drives, and AC motor drives such as variable frequency drives. Prerequisite: ET 365. (3)

**ET 368. Advanced Digital Principles.** A study of the SSI, MSI, LSI, VLSI, programmable logic and memory chips that make up the modern microcomputer. Prerequisite: EP 305 or ET 245. (3)

**ET 370. Computer Peripherals, Networking and Routers.** OSI networking and topologies, beginning router configurations, routing protocols, and introduction LAN switching. Prerequisite: basic computer literacy. (3)

**ET 374. Industrial Electronics.** A study of devices used for industrial instrumentation and other applications. Topics include industrial control systems, networks, and devices including transducers, sensors, actuators, electrical control diagrams, and signal conditioning. Prerequisite: ET 260. (3)

**EP 378. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. (1)

**EP 379. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. (2)

**EP380 Engineering Design and Research.** An in-depth introduction to the engineering design and research process. Two-hour lab. Prerequisite: UI330. (1)

**ET 426. Sustainable Energy Technologies.** Explores carbon footprint management, engineering and economic analysis, payback analysis, and deployment analysis of sustainable energy options for industrial,

commercial and residential systems and processes. Prerequisite: ET 365. (3)

**ET 460. Pulse Circuits.** Analysis, design and application of pulse circuits including multivibrators, timers, clock circuits, filtering and wave shaping. Prerequisite: ET 262. (3)

**ET 463. Photovoltaic System Analysis & Design.** Practical utilization of solar energy for industrial, commercial and residential applications. Students will gain an understanding of solar system physics, site analysis, insolation mapping, flat plate collectors, photovoltaics, and economic analysis. Prerequisite: MA 134 or MA 135. (3)

**ET 466. Industrial Instrumentation.** Measuring industrial parameters and converting to coded electrical impulses, converting these impulses to sensory perceived displays. Prerequisite: ET 460. (3)

**ET 468. Industrial Control.** Study of process control fundamentals including electric control systems, open/closed loop control, PID controllers, block diagrams, LaPlace transforms, stability, frequency response, steady state error, and distributed controls. Prerequisite: ET 374. (3)

**ET 470. Energy Management.** A study of energy auditing, rate structures, economic evaluation techniques, lighting efficiency improvement, HVAC optimization, combustion and use of industrial waste, steam generation and distribution system performance, Distributed Digital Control systems, process energy management, and maintenance considerations. Prerequisite: ET 365 or consent of instructor. (3)

## **ELEMENTARY EDUCATION (EL)**

**EL 274. (Cross-listed as SE 275). Diversity in American Schools.** Exploration of race, ethnicity, and gender issues in schooling today. (3)

**EL 313. Children and the Arts.** To enable the student to integrate dance, music, theatre, and visual art in the educational setting. Corequisites: EL 314; EL 315; EL 316; EL 317. Prerequisites: Admission to Teacher Education program; ED 250; CF/PY 120; LI 243. (2)

**EL 314. Elementary Block II: Field Experience.** Field experiences for the implementation of Block II content course requirements. Corequisites: EL 313; EL 315; EL 316; EL 317. Prerequisites: Admission to Teacher Education program; ED 250; CF/PY 120; LI 243. (3)

**EL 315. Theories of Learning and Management: Elementary.** A field-based course with emphasis upon the impact of learning theories, effective classroom environments, developmentally appropriate instruction,

and student diversity. Prerequisites: ED 250; admission to Teacher Ed Program. Co-requisite: EL 314. (2)

**EL 316. Foundations of Reading Techniques.** This field-based course focuses on competencies of pedagogy of teaching reading. Corequisites: EL 313; EL 314; EL 315; EL 317. Prerequisites: Admission to Teacher Education program; ED 250; CF/PY 120; LI 243. (3)

**EL 317. Foundations of Language Arts Techniques.** This field-based course teaches competencies for teaching and learning the language arts (reading, writing, speaking, listening, viewing, and visual representation). Corequisites: EL 313; EL 314; EL 315; EL 316. Prerequisites: Admission to Teacher Education program; ED 250; CF/PY 120; LI 243. (2)

**EL 350. Elementary Block III: Field Experience.** Integration of appropriate field experiences with course work taken in Elementary Block III. Prerequisite: Block II. (3)

**EL 351. Teaching Science in the Elementary School.** This field-based course focuses on understanding the elementary science program and related methods and materials. Prerequisites: Elementary Block II, BS 118, and BS 218 or PH 218. Co-requisite: EL 350. (2)

**EL 352. Teaching Social Studies in the Elementary School.** This field-based course focuses on understanding the elementary social studies program and related methods and materials. Prerequisite: Elementary Block II, US 105 or US 107, PS 103, EC 101 and UI 308. Co-requisite: EL 350. (1)

**EL 353. Techniques of Teaching Elementary Mathematics.** This field-based course focuses on understanding the elementary mathematics program and related methods and materials. Prerequisite: Elementary Block II, MA 118, and MA 230 or MA 318 or MA 418 or consent of instructor. Co-requisite: EL 350. (2)

**EL 354. Corrective Reading Instruction.** This field-based course teaches the use of literacy assessment techniques to enhance teachers' ability to plan appropriate literacy experiences. Prerequisite: Elementary Block II. Co-requisite: EL 350. (3)

**EL 355. Reading Study Strategies and Skills.** This field-based course teaches strategies for the development of communication arts and enhances students' ability to apply these strategies. Prerequisite: Elementary Block II. Co-requisite: EL 350. (2)

**EL 453. Student Teaching Experience I.** Professional practicum requiring demonstration of implementation of the Teacher Work Sample elements in school setting. Under the direction of cooperating teacher and university supervisor. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (6)

**EL 454. Student Teacher Experience II.** Professional practicum under the direction of cooperating teacher and university supervisor. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (6)

**EL 455. Student Teaching Experience I.** Professional practicum requiring demonstration of implementation of the Teacher Work Sample elements in school setting. Under the direction of cooperating teacher and university supervisor. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (8)

**EL 460. Alternate Student Teaching.** Professional practicum requiring demonstration of MoSPE Standards in school settings. Under the direction of a cooperating teacher. (8)

**EL 499. Portfolio Review.** During Block IV Student Teaching, majors pursuing BS in Education-Elementary, Early Childhood, or Special Education-must successfully complete a Teacher Work Sample. (0)

**See University Studies (UI) listings for description of:**

**UI 347. Living in a Global Society.** (3)

## **ENGINEERING PHYSICS (EP)**

**EP 100. Physics and Engineering Concepts.** An introduction to the fields of physics and engineering, including methods of analysis and computer applications packages: word processing, spreadsheets, computational software. Pre or Co-requisites: MA 133; MA 134; or MA 135 or higher. (1)

**EP 240. Circuit Analysis.** Direct-current circuits; circuit elements; Kirchoff's Laws; loop and nodal analysis; network theorems; natural forced, and complete circuit response, steady-state AC circuits, AC power, polyphase circuits, frequency response. Prerequisites: PH 231; MA 240. (4)

**EP 261. Engineering Mechanics Statics.** Bodies in equilibrium. Vectors and vector algebra; forces, moments, and couples; equivalent force systems; frictional forces; structural analysis; distributed forces and properties of surfaces. Prerequisite: PH 230; Pre or Co-requisite: MA 240. (3)

**EP 262. Engineering Mechanics Dynamics.** Bodies in accelerated motion. Kinematics and dynamics of particles; work and energy; impulse and momentum; kinetics and dynamics of rigid bodies; mechanical vibrations. Prerequisite: EP 261. (3)

**EP 263. Mechanics of Materials.** Introduction to engineering materials; concepts of strain, stress, equilibrium; material responses to applied loading/

deflection; analysis of engineering components, e.g., beams, thin-walled structures, axisymmetric elements; introduction to structural stability. Three lectures and a two hour lab. Prerequisite: EP 261. (4)

**EP 305. Digital System Design.** Logic circuit elements, logic function and Boolean algebra, combination logic circuits, PLD and CPLD, introduction to VHDL, sequential logic circuits, finite state machine, memory devices and systems. Two hours lecture and one two-hour lab. Prerequisites: PH 121 or PH 231. (3)

**EP 310. Microcontroller and Embedded Systems.** An introduction to microcontroller and embedded systems. Microcomputer hardware organization and software programming; use of microcontrollers in embedded systems. One hour lecture and two two-hour labs. Prerequisites: CS 155 or CS 177; EP 305 or CS 280. (3)

**EP 340. Electronic Circuits.** Physics of diodes; diode applications; physics, biasing, and small-signal models of bipolar junction transistors (BJT's) and field-effect transistors (FET's); frequency response of amplifiers; feedback; oscillators; operational amplifiers; and active filters. Three hours lecture; two hours lab. Prerequisite: PH 121 or PH 231. (4)

**EP 361. Thermal Analysis.** Thermodynamic laws and processes; heat transmission; kinetic theory. Applications to heat engines, turbines, refrigeration, and heat exchangers. Prerequisites: PH 231; MA 245. (3)

**EP 363. Thermal-Fluid Engineering.** Introduction to the laws of thermodynamics, concept of control volumes, thermodynamic properties of materials, behavior of ideal gases, introduction to basic heat transfer modes; introduction to fluid mechanics and Bernoulli's equations. Prerequisite: EP 263. Pre or corequisite: MA 350. (3)

**EP 372. Signals and Systems.** Analysis and design methods for continuous-time and discrete-time systems including signal models, Fourier series and transform, Laplace transforms, discrete Fourier transform, Z-transform, digital filtering, and the Fast Fourier Transform (FFT) algorithm. Prerequisites: EP 240; MA 350. (3)

**EP 374. Control Systems.** Control theory of electrical, mechanical, and electromechanical systems; system elements; system equations and models; system excitation and response; frequency, time, and state space analysis of linear systems. Prerequisite: EP 372. (3)

**EP 411-413. Industrial Internship in Physics.** A supervised learning and work experience in applied physics which enhances the student's understanding of the applications of physical principles to problems in academic and industrial environments. (1-3)

**EP 460. Measurements and Instrumentation.**

Techniques of measurement; energy conversion, sensors and transducers; principles and operation of instruments for measurement; data acquisition and processing; automatic control and control elements. Prerequisites: PH 231; MA 245. (3)

**EP 461. Computer Applications.** Use of computers for the solution of physics and engineering problems in mechanics, thermodynamics, electromagnetics, modern physics, applied optics, and selected problems in quantum mechanics. Programming involves Linux, Python, Matlab, and other high-level languages. Prerequisites: CS 177; PH 231; MA 245; or consent of instructor. (3)

**EP 462. Materials Science.** The solid state; structure of solids; mechanical, chemical, thermal, electrical, magnetic and optical properties of materials; behavior of materials in engineering applications. Prerequisites: PH 121 or PH 231; CH 185. (3)

**EP 480. Capstone Design I.** Each student designs, builds, and tests a simple engineering project. Lectures are given on ethics, professionalism, safety, and economic considerations. Pre or Co-requisite: PH 345 or UI 330. (1)

**EP 481. Capstone Design II.** Student teams complete an engineering design project. Emphasizes design prototyping, testing, evaluation, and documentation. Time management, group dynamics, teamwork, ethics, and economics. Prerequisite: EP 480. (3)

**See University Studies (UI) listings for descriptions of:**

**IU 317. System Theory For Everyone.** (3)

**UI 450. Capstone Experience.** (3)

## **ENGLISH (EN)**

**EN 001. Writing Portfolio.** A non-credit forum for undergraduate English B.A. majors (Literature and Writing) to complete the portfolio requirement of that degree program. Students will finalize revisions of the documents they have been accumulating throughout their undergraduate careers. (0)

**EN 099. Introduction to Composition.** In-class workshop and individual tutorials in written communication. Students who do not earn a grade of 'C' or higher are given "no credit" and must repeat the course. For students who score below requisite level on University Placement Test. (3)

**EN 100. English Composition.** Focus on techniques of effective written expression. Prerequisite: EN 099 or appropriate score on University Placement Test. (University Studies course) (3)

**EN 140. Rhetoric and Critical Thinking.** Focus on effective written expression in the context of a liberal education; emphasis upon critical thinking and the research paper. Prerequisite: EN 100 or advanced placement. (University Studies course) (3)

**EN 201. Writing About Literature.** Focuses primarily on the writing process within the academic discipline of literature. Emphasis on various critical theories of reading and their application to the writing process as well as to research in the field of English studies at the undergraduate level. Prerequisite: EN 140. (3)

**EN 275. Introduction to Creative Writing.** Theory and practice in various forms of poetry and short fiction. Prerequisite: EN 140. (3)

**EN 311. Literary Manuscript Editing Practicum.** A skills course for students who wish to study and practice the proofreading and copyediting of manuscripts which will include literary magazines, independent-press novels and poetry collections, memos, brochures, newsletters, and mass-media articles. (3)

**EN 315. Foundations of Teaching English Language Learners.** Focuses on teaching strategies, materials, lesson plans and assessment to promote language and academic development of ESL/EFL learners. (3)

**EN 345-347. Independent Study in English.** Study of topics not included in the basic curriculum. (1-3)

**EN 375. Intermediate Creative Writing.** For undergraduates who desire to improve their imaginative writing in fiction and poetry. In addition to special problems assigned, students will complete a portfolio of their work. (3)

**EN 376. Advanced Composition.** Writing technique in stylistics, expository forms, analyses and criticism. Rhetorical emphasis on writer and audience. Prerequisites: EN 140; any 200-level literature course. (3)

**EN 378. Grammars of English.** Traditional and modern American grammar and usage. Prerequisites: EN 140; any 200-level literature course. (3)

**EN 379. Composition in the Secondary School.** Reviews current composition theory; emphasis on examining student's writing processes and on practical matters of high school composition instruction: design, evaluation, and sequencing of assignments. Prerequisites: EN 140; any 200-level literature course. (3)

**EN 380. An Analysis of Writing Skills in the Elementary School.** Studies types of children's writings, evaluation techniques, and teacher's role in (1) identifying and developing children's writing readiness;

(2) introducing children to writing; and (3) motivating children to write. Prerequisites: EN 140; any 200 level literature course. (3)

**EN 381. Language Acquisition.** Introduction to theories of language acquisition, stages in language development, a thorough description of the language of children, and methods of evaluating and extending children's language skills. Prerequisites: EN 140; any 200-level literature course. (3)

**EN 423. Visual Rhetoric.** Advanced study of rhetorical and design techniques for technical writing. (3)

**EN 424. Editing/Research in Professional Writing.** Practicum in the forms of research commonly performed by professional writers, such as historical and data fact-checking; analysis of and collaboration with authorial style; and usage of CMS, APA, and online style manuals (3)

**EN 435. Internship in English.** Practical experience in writing in a professional organization. Prerequisites: English major; 75 hours; 9 hours in major option; cumulative GPA of 2.75; major GPA of 3.0. (3)

**EN 445. Advanced Literary Publishing.** Principles, techniques, and theories in the production of literary books, including history of cover art, collaborative typography, special problems in editing and book marketing, review writing, contracts, budgets, and grant writing. (3)

**EN 470. Advanced Creative Writing: Poetry.** For undergraduate students who wish to create imaginative writing in poetry, including open form, the formal poem, and the prose poem. In addition to workshop sessions and special problems assigned in class, at least eight imaginative works in poetry must be completed during the term. Prerequisites: EN 140 or equivalent; EN 275 or consent of instructor; any 200-level literature course except LI 243. (3)

**EN 478. Advanced Creative Writing: Fiction.** For undergraduate students who wish to create imaginative writing in fiction, including traditional and experimental short stories, novels, and drama. In addition to workshop sessions and special problems assigned in class, at least two imaginative works in fiction must be completed during the term. Prerequisites: EN 140 or equivalent; EN 275 or consent of instructor; any 200-level literature course except LI 243. (3)

**EN 486. Sociolinguistics.** Study of language in context, particularly dialects, bilingualism, multilingualism, speech communities, genderlects, and regional/social variations as they relate to linguistic variables. On-campus course, which is also a synchronically interactive

telecommunications course. Computer literacy and email access required. (3)

**EN 535. Rhetorical Theory/Written Discourse.** Historical survey of rhetorical theory (Aristotle to the moderns), with emphasis on critical examination of tests. (3)

**EN 550. Style in Writing.** Theory and practice of style in written expression, analyzing styles of writers representing various periods and types of writing; focus on the development of style in the student's own writing. Prerequisites: EN 140; any 200-level literature course. (3)

**See University Studies (UI) listings for descriptions of:**

**UI 500. History of the English Language.** (3)

**UI 501. Principles of Language.** (3)

## **ENVIRONMENTAL SCIENCE (EV)**

**EV 201. Environmental Science Seminar.** Consideration of topical environmental issues. Required for environmental science majors; to be taken in sophomore year. Meets concurrently with EV 401. Prerequisites: Minimum of 12 hours in the natural sciences, and sophomore status. (1)

**EV 344. (Cross-listed as EC 344). Environmental Economics.** Application of economic theory to problems faced by environmental managers and policy makers. Prerequisites: MA 134; EC 101 or EC 215. (3)

**EV 365. (Cross-listed as GO 365). Environmental Soil Science.** An investigation of the physical, chemical, mineralogical and microbiological features of soils and an analysis of best land use. Three lectures, one two-hour laboratory and one field trip. Prerequisites: CH 181 or CH 186. (3)

**EV 400. (Cross-listed as BI 400). Health Physics.** Radiation physics and biology as related to safe use of ionizing radiation in therapeutic and diagnostic medicine, industry and research. (3)

**EV 401. Environmental Science Seminar.** Consideration of topical environmental issues. Required for environmental science majors; to be taken in senior year. Meets concurrently with EV 201. Prerequisites: EV 201, minimum of 30 hours in the natural sciences, and senior status. (1)

**EV 443. (Cross-listed as BI 443). Epidemiology.** Introduction to basic concepts, methods and applications of infectious disease, chronic disease and environmental epidemiology focused on epidemiological reasoning processes. Three lectures. Prerequisites: BI 200; MA 134. (3)

**EV 450. (Cross-listed as CH 450). Environmental Chemistry.** A study of the sources, reactions, transport, and fate of chemical entities in the air, water, and soil environments. Two lectures and two hours lab. Prerequisites: CH 341; CH 342; or consent of instructor. (3)

**EV 453. (Cross-listed as BI 453). Occupational Health.** Introduction to the factors influencing occupational incidents and the adverse interactions of environmental and occupational chemical/physical agents with humans. Prerequisites: Junior standing; CH 181 or CH 185. (3)

**EV 454. (Cross-listed as BI 454). Risk Assessment Applications.** Introduction to concepts, terminology, methods, and applications of qualitative and quantitative health and ecological risk assessment and risk communication. Prerequisites: Junior Standing; CH 181 or CH 185; MA 134. (3)

**EV 455. (Cross-listed as BI 455). Industrial Hygiene.** The study of chemical and physical hazards in the occupational environment and the methods used for their evaluation and control. Prerequisites: Junior standing; BI 200; CH 186; MA 134. (3)

**EV 460. (Cross-listed as BI 460). Introduction to Toxicology.** Introduction to the fundamental principles of toxicology, toxic agents, toxicity testing, mechanisms of toxicity, toxic effects, sources of exposure, and applications of toxicology. Prerequisites: Junior standing; BI 200; ZO 200; CH 186. (3)

**EV 471-473. Topics: Environmental Science.** Special topics in environmental science typically unavailable in the departmental curriculum. May be taken more than once. Prerequisites: EV 201; consent of instructor. (1-3)

**EV 475. Readings: Environmental Science.** Consideration in depth of subject matter ordinarily unavailable in the departmental curriculum through reading and discussion of assigned material. May be taken more than once. Prerequisites: EV 201; consent of instructor and consent of the program director. (2)

**EV 481-483. Internship in Environmental Science.** A supervised experiential learning opportunity in environmental science which enhances the student's comprehension of applied environmental concepts and skills. May be taken more than once. Prerequisites: EV 201; internship learning site must exhibit a demonstrated relationship to the student's major; approval of program internship coordinator. (1-3)

**EV 491-493. Research in Environmental Science.** Original individual research on an environmental science problem of interest to the student. May be taken more

than once. Prerequisites: EV 201; consent of instructor and consent of program director. (1-3)

**EV 551. Hazardous Materials Assessments.** Introduction to the performance of investigative and remedial activities at hazardous waste sites. Three-hour lecture and one mandatory field exercise. Prerequisites: CH 185; CH 186; EV/BI 455; or consent of instructor. (3)

**See University Studies (UI) listings for descriptions of:**

**UI 360. Recycling and Waste Management.** (3)

**UI 386. Environmental Health.** (3)

**UI 387. Environmental Law and Public Policy.** (3)

**UI 429. Environmental Ethics.** (3)

## **EXCEPTIONAL CHILD (EX)**

**EX 302. Language Development of Exceptional Children.** Overview of atypical language development; problems in acquisition of language skills birth through school-age; management of speech/language problems by teachers. Co-requisite: Block II. (2)

**EX 304. Behavior Management.** Theoretical background and rationale for managing student behavior. Emphasizes practical application of respondent, operant and social learning principles. Prerequisites: EX 318; Block II. (3)

**EX 305. Teaching Strategies and Career Awareness for Adolescents with Mild Disabilities.** Emphasis on program alternatives and methods for teaching adolescents with mild disabilities enrolled in secondary school programs. Prerequisites: EX 318; Block II. (3)

**EX 307. The Parent and the Exceptional Child.** Emphasizes role of teachers of exceptional children as parent partners. Stresses methods for collaborating with parents, strategies for accessing community resources. Prerequisite: EX 311. Co-requisite: Block II. (3)

**EX 309. Exceptional Child Education Field Experience Block.** Integration of appropriately designed field experiences commensurate with exceptional child coursework taken in Exceptional Child Block. Prerequisites: EX 318; Block II. (3)

**EX 311. Introduction to Exceptional Children.** Investigates historical/legal development, library and internet resources, general characteristics and educational needs of categories served, and teacher certification requirements. (3)

**EX 312. Diagnosis and Remediation of Learning Difficulties in Mathematics.** Designed specifically to help teachers learn to use a diagnostic and



prescriptive approach in teaching remedial mathematics. Prerequisites: EX 318; MA 118; Block II. (3)

**EX 317. Assessment and Techniques of the Exceptional Child.** Introduction/application of assessment/evaluation processes used in Missouri schools for identification of pupils with disabilities and application of information in development of Individualized Education Program. Prerequisites: EX 318; Block II. Co-requisite: EX 309. (3)

**EX 318. Introduction to Mild/Moderate Cross-Categorical.** An overview of the field of cross-categorical special education, and K-12 students who are placed in cross-categorical settings. Pre- or Co-requisite: EX 311. (3)

**EX 373. Techniques of Teaching the Mild/Moderate Cross-Categorical.** Methods and materials needed in teaching students with mild/moderate disabilities K-12 in cross-categorical settings will be studied. Academic, perceptual, cognitive, pre-vocational, and social skills will be emphasized. Prerequisites: EX 318; Block II. (3)

**EX 390. Psychology and Education of the Exceptional Child.** Addresses the characteristics and education of exceptional children, including all categorical disabilities recognized by IDEA 2004, gifted and others who are culturally and academically at-risk. (3)

**EX 460. Alternate Student Teaching.** Professional practicum requiring demonstration of Teacher Work Sample Implementation in school settings. Under the direction of a cooperating teacher. (8)

**EX 471. Student Teaching I: Cross Categorical.** Professional practicum requiring demonstration of implementation of the Teacher Work Sample elements in school setting. Under the direction of cooperating teacher and university supervisor. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (6)

**EX 472. Student Teaching with the Mild/Moderate Cross-Categorical.** Intensive professional practicum under the direction of cooperating teacher and university supervisor. Corequisite: EF 400. Prerequisite: In good standing in Teacher Education Program. (6)

**EX 484-486. Independent Study in Exceptional Children.** Directed individual study of problems and special topics in exceptional child education. Open only to students pursuing the B.S. in Exceptional Child Education degree. (1-3)

**EX 499. Portfolio Review.** During Block IV Student Teaching, majors pursuing BS in Education - Elementary, Early Childhood, or Special Education - must successfully complete a Teacher Work Sample. (0)

**EX 507. Family and the Exceptional Child.**

Emphasizes the role of exceptional children teacher as parent partner. Stresses methods for collaborating with parents; strategies for accessing resources. (3)

**EX 555. Introduction to Autism Spectrum Disorder.** Offers an overview of student characteristics, theory and teaching applications for students with Autism Spectrum Disorder (ASD). (3)

**EX 556. Language Acquisition and Communication Strategies.** Addresses the process of language acquisition and investigates research-based strategies for improving communication in individuals with disabilities. Prerequisite: EX 555 or permission of instructor. (3)

**EX 557. Behavior Management and Intervention.** Provides an analysis of the principles of behavior management and interventions for individuals with developmental and sensory disabilities. Prerequisite: EX 555 or permission of instructor. (3)

**EX 558. Research Autism Spectrum Disorders.** Addresses critical issues and trends in the field of developmental disabilities. Prerequisite: EX 555 or permission of instructor. (3)

**EX 559. Clinical Practicum.** Supervised field experience conducted in a clinical environment with individuals with varying exceptionalities (1, 2, or 3). Prerequisite: EX 555 or permission of instructor. (3)

## **FACILITIES MANAGEMENT (FM)**

**FM 504. Facilities Management.** A variety of topics will be covered related to facilities and their management, including project management, facility planning, maintenance, energy management, cost estimating, accounting, preventative maintenance, and others. (3)

**FM 544. Sustainable Construction Materials and Technologies.** Green Building designs for residential and light commercial facilities based on LEED and National Green Building (ANSI-ICC-700) standards. Topics include energy efficiency, building codes, green construction methods and environmentally friendly construction practices. Prerequisite: FM 504 or consent of instructor. (3)

**FM 554. Facilities Operation and Supervision.** Facilities management topics based on core competencies of the International Facility Management Association involving management of corporate needs, health safety, security, operation and maintenance of physical facilities. Prerequisite: FM 504 or consent of instructor. (3)

**FM 564. Sustainable Facilities Planning and Design.** Sustainable construction and green building design for large commercial facilities based on LEED

standards. Topics include locality, energy systems, controls, materials, water, planning and design using sustainable construction methods. Prerequisite: FM 544. (3)

**FM 565. Building Energy Management.** Energy efficiency strategies for commercial and residential building energy systems. Topics include passive and active energy systems, climate and comfort parameters, environmental implications of the buildings, and carbon footprint management. Prerequisite: ET 365 or consent of instructor. (3)

## **FAMILY ECONOMICS AND MANAGEMENT (FE)**

**FE 200. Family Resource Management.** Analysis and evaluation of resource management concepts within family systems. Emphasis is on management of economic and human resources. (University Studies course) (3)

**FE 400. Family Resource Management Practicum.** Capstone practicum designed to place the student in community agency/organization or advocacy group which address management and financial issues relevant to families. Prerequisites: Completion of 15 hours in the Family Economics Management minor or permission of instructor. (3)

**See University Studies (UI) listings for description of:**

**UI 355. Consumer and the Market.** (3)

## **FASHION MERCHANDISING (FA)**

**FA 110. (CT 110) Introduction to Fashion Merchandising.** Overview of the design, production, and distribution of fashion goods. Introduction to fashion trade vocabulary, centers of fashion, and career opportunities. (3)

**FA 207. (CT 207) Textiles.** Study of natural and manufactured fibers, yarns, fabric, finishing, and coloring of textile products. Two lectures and one 2-hour lab. (3)

**FA 230. (CT 230) Apparel Analysis.** Styling, material, and construction decisions and their impact on the cost and quality of mass produced apparel. Prerequisite: FA 207. (3)

**FA 300. (CT 300) Professional Image and Behavior.** An examination of business etiquette, dress, and common procedures designed to facilitate smooth transition into the business world. (2)

**FA 350. (CT 350) Apparel Aesthetics.** Visual fine arts principles as applied to the design and selection of mass produced apparel. (3)

**FA 410. (CT 410) Internship in the Fashion Merchandising Industry.** A career-related work experience in merchandising providing professional experience in the student's major area of study. Prerequisites: 75 hours and 2.50 cumulative GPA; 15 hours of FA courses. (6)

**FA 415. (CT 415). Fashion Retailing.** Management of products in retail institutions. Examination of retail formats, product adoption theory, assortment planning, and buying procedures for fashion merchandise. Prerequisites: FA 110; MK 301. (3)

**FA 420. (CT 420) Specialty Markets.** A study of the manufacture and merchandising of specialty markets including menswear, children's wear, footwear, accessories, jewelry, cosmetics, and home furnishings. Prerequisite: A 110. (3)

**FA 450. (CT 450) Issues and Trends in Fashion Merchandising.** The impact of current social, economic, technological and cultural trends on the merchandising of fashion products. Prerequisite: FA 415. (3)

**FA 517. (CT 517) History of Costume.** An overview of factors which affect form and function of human apparel from ancient times to the present. (3)

**FA 518. (CT 518) Social Psychological Aspects of Clothing.** Social, psychological, economic and cultural factors related to clothing. Prerequisite: PY 101. (3)

**FA 520. (CT 520).** Survey of National Markets – New York. Supervised visits to all components of the fashion business and its auxiliary fields located in the industry center – New York City. (3)

## **FINANCE (FI)**

**FI 260. Personal Finance.** Study of personal financial decisions including investments, real estate, insurance, personal taxes, estate planning, tax shelters and financial planning. (This course is not applicable on Accounting or Finance majors.) (3)

**FI 351. Principles of Insurance.** Survey course covering general principles of insurance. Prerequisite: Junior standing. (3)

**FI 361. Financial Management.** Financial structure and problems of modern business corporations. Prerequisites: AC 222, EC 225, with a minimum grade of 'C'; junior standing. (3)

**FI 362. Advanced Financial Management.** Emphasis is placed on the examination of the financial policies of corporations pertaining to dividend policy, capital structure, and investment. Prerequisites: FI 361 with a minimum grade of 'C'; QM 257 with a minimum grade of 'C'. (3)

**FI 363. Entrepreneurial Finance.** Emphasis is on financial problems facing the small business. Such problems include funding, working capital management, and capital budgeting. Prerequisite: FI 361 with a minimum grade of 'C'. (3)

**FI 364. Modern Financial Institutions.** Comprehensive survey of the role of each of the major financial institutions in our economy. Prerequisite: FI 361 with a minimum grade of 'C'. (3)

**FI 365. Real Estate Principles and Practices.** Study of the nature of real estate and its ownership. The course is a survey of real estate topics that includes fundamental principles of real estate investment, appraisal, mortgage finance, brokerage and development. Prerequisites: FI 361 with a minimum grade of 'C'; Junior standing. (3)

**FI 368. Investments.** First course in investments. Provides information on planning an investment program, selection of securities, growth stocks and related topics. Prerequisites: FI 361 with a minimum grade of 'C'; QM 257 with a minimum grade of 'C'. (3)

**FI 471. Internship in Finance.** A supervised learning and work experience in finance which enhances finance courses taken on campus. On demand. Prerequisites: junior standing with 9 hours of FI prefix courses; GPA of 2.75 overall and in FI courses. (1)

**FI 473. Internship in Finance.** A supervised learning and work experience in finance which enhances finance courses taken on campus. On demand. Prerequisites: junior standing with 9 hours of FI prefix courses; GPA of 2.75 overall and in FI courses. (3)

**FI 475. Futures Seminar.** Fundamentals, strategies, and applications of agricultural and financial futures contracts and markets. Prerequisites: Senior standing and FI 368 or AG 447 with a minimum grade of 'C' or consent of department chairperson. (3)

**FI 480. Financial Policy.** A case course that examines the complex issues of establishing financial policy for organizations, i.e., appropriate capital structure, dividend policy, etc. Prerequisites: FI 362 with a minimum grade of 'C'; senior standing. (3)

**FI 481-483. Problems in Finance.** Directed study of special problems in finance through seminars, workshops, forums, etc. On demand. (1-3)

**FI 491-493. Independent Study in Finance.** Intensive study of special problems related to finance. (1-3)

**FI 540. International Finance.** An examination of the operations and financial strategies of multinational firms within a global environment. Prerequisites: FI 361 with a minimum grade of 'C'; senior standing. (3)

**FI 568. Portfolio Seminar.** Examination of the

concepts relating to modern portfolio theory. Topics include EMH, risk, portfolio performance, and related topics. Prerequisite: FI 368 with a minimum grade of 'C'. (3)

## **FOOD AND NUTRITION (FN)**

**FN 150. Introduction to Hospitality Management.** An introduction to management opportunities in the hospitality industry. A realistic overview of career requirements, potentials, and constraints. (3)

**FN 205. Selection and Preparation of Foods.** Basic principles in the culinary arts including food selection, recipe utilization, and food production in a lecture and laboratory setting. (3)

**FN 235. Nutrition for Health.** This course examines, analyzes, and evaluates the relationships between the science of nutrition, health, and well-being. (University Studies course) (3)

**FN 255. Nutrition I.** The foundations of human nutrition based on the principles of chemistry and molecular biology. Prerequisite: CH 181 or CH 185 or consent of instructor. (3)

**FN 260. Meeting and Event Management.** Aspects of organizing and executing successful meetings and events including: planning, timing, budgeting, scheduling, staffing, coordinating lodging, food/beverage and legal/ethical issues. Prerequisite: FN 150 or consent of instructor. (3)

**FN 270. Hotel and Resort Operations.** Introduction and overview of guest services, operations of front and back offices, systems interaction, and guest experience in hotel and resort organizations. Prerequisites: FN 150 or consent of instructor. (3)

**FN 304. Food, Beverage and Labor Cost Controls.** Principles and procedures in food and beverage procurement and labor control systems. Prerequisites: AC 221; FN 205. (3)

**FN 320. Essentials of Food Science.** Application of food science principles and their effects on product quality, recipe development, nutritive value and current assessment techniques. Prerequisites: CH 181; CH 234; FN 205; HL 303. (4)

**FN 325. Hospitality Law.** Legal ramifications of operating a hospitality organization emphasizing loss prevention, regulatory agencies, the employer's responsibility to guests and employees. Prerequisites: FN 150; FN 270. (3)

**FN 340. Professional Dietetic Seminar.** Critical analysis of career options in dietetics and the impact of legislation, professional ethics, and standards on

current dietetic practice/procedures. Prerequisite: FN 235 or FN 255. (1)

**FN 350. Culinary Theory and Practice.** Advanced principles of culinary arts and practice including culinary principles, standards of quality, preparation technique, methods and processes. Prerequisites: FN 205; FN 304. (3)

**FN 355. Lifespan Nutrition.** A study of nutrition principles related to various stages in the life cycle. Prerequisites: CH 181; FN 235 and/or FN 255; BS 114. (3)

**FN 370. Nutrition Assessment.** Demonstration and use of methodologies assessing food and nutrition behaviors and status of individuals and groups in clinical and community settings. Prerequisite: BS 114; FN 235 and/or FN 255. (3)

**FN 390. Hospitality Sales and Marketing.** The importance of a formalized sales and marketing program in successful hotel, restaurant and tourism operations. Prerequisites: FN 150; FN 270; MK 301. (3)

**FN 401. Sports Nutrition.** Basic theory and application related to nutrition for athletic performance. Application of sports nutrition concepts for recreational and elite athletes. Prerequisite: FN 235 or FN 255 or consent of instructor. Prerequisites: BS 114; CH 181. (3)

**FN 406. Hospitality and Institution Administration.** Food service systems management concepts, tools, and functions are used to meet organizational goals through effective leadership and problem solving applications. Prerequisites: FN 205; FN 304. (3)

**FN 416. Quantity Food Production.** Menu planning preparation, sanitation and service in a quantity production environment. One 2 hour lecture and two 2-hour lab. Prerequisites: FN 205 with a minimum grade of 'C'; FN 304; FN 320 or FN 350; FN 406. (4)

**FN 473. Internship in the Hospitality Management.** A career-related work experience in Hospitality Management which focuses on skill development and application of academic principles and concepts. May be repeated for credit. Prerequisites: 75 hours completed; 2.50 cumulative GPA; 18 hours completed in hospitality management courses with a 2.50 GPA; or consent of program director and department chairperson. May be repeated for credit up to 12 hours. (4)

**FN 502. Nutrition II.** Study of metabolism of proteins, fats and carbohydrates, stressing the action and interaction of nutrients within the human body. Prerequisite: BS 114; CH 234; FN 255; FN 355. (3)

**FN 503. Medical Nutrition Therapy I.** Part one of the in-depth study of pathophysiology and the principles of medical nutrition therapy for various disease states. Three hours lecture and 2 hours lab. Prerequisites: BS 114; CH 234; FN 502. (4)

**FN 504. Medical Nutrition Therapy II.** Part two of the in-depth study of pathophysiology and the principles of medical nutrition therapy for various disease states. One hour lecture and 6 hours clinical rotation. Prerequisite: FN 503 or consent of instructor. (4)

**FN 515. Yield/Revenue Management for Hospitality Industry.** Principles of revenue maximization and factors impacting revenue management decisions such as room sales, food and beverage activity and special events. Prerequisites: FN 270; FN 304; or consent of instructor. (3)

**FN 520. Nutrition and Aging.** A study of the nutritional needs of the mature adult population with consideration of the physiological, psychological and socioeconomic changes associated with aging. Prerequisites: FN 370; FN502. (3)

**FN 525. Nutrition Counseling.** Principles of nutrition counseling theories, behavior change models, approaches for nutrition counseling, skill development and application in nutrition counseling setting. Prerequisites: FN 235 or FN 255; FN355; FN 370. (3)

**FN 530. Implications for Nutrition and Exercise Science: Pathophysiology.** An in-depth examination of nutrition and exercise and their relationship to pathophysiology. Prerequisites: FN 502; HL 331; or consent of instructor.

**FN 540. Community Nutrition.** Fundamentals of nutrition care and delivery in community programs with a special focus on cultural diversity, nutrition education assessing and meeting community needs at the local, state and federal levels. Prerequisites: FN 235 or FN 255; FN 355; FN 370; or consent of instructor. (3)

**FN 550. Vitamin Metabolism.** Focus on the theories and principles of vitamin metabolism and their application to health promotion and disease prevention. Prerequisite: FN 502 or consent of instructor. (3)

## **FOREIGN LANGUAGES (FL)**

**FL 205. Art of French Cinema.** A study of artistic elements of French cinema through critical examination of directors, themes and techniques. In English; no knowledge of French required. Prerequisite: EN 100 or equivalent. (University Studies course) (3)

**FL 311. Survey of French, German and Spanish Literature.** Comparative survey of French, German and

Spanish literature with an emphasis on masterpieces of various literary movements. Prerequisite: FR 220, GN 220, SN 220 or consent of instructor. (3)

**FL 400. Practicum in Foreign Languages.** Applied and theoretical study of foreign language teaching in which students are paired with and supervised by faculty members. Prerequisite: Consent of instructor. (3)

**FL 410. Independent Study in Foreign Languages.** For senior French, German or Spanish majors. Prerequisite: Consent of department chairperson. (3)

## FORENSIC SCIENCE (FS)

**FS 550. Crime Laboratory I: Microscopy.** Introduction to the techniques of forensic microscopy in the analysis of physical evidence. Four lab hours. Prerequisite: CH 344 or consent of instructor. (2)

**FS 552. Crime Laboratory II: Blood and Fluids.** Introduction to the techniques of forensic serology in the analysis of biological evidence. Four hour lab. Prerequisite: CH 344 or consent of instructor. (2)

## FRENCH (FR)

**FR 001. French Exit Exam.** All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number FR 001 will appear on the Degree Audit. Prerequisite: Students must have completed all coursework in French or be in their last year of completing the coursework. (0)

**FR 100. French Language and Culture I.** Acquisition of an appreciation of the culture of French-speaking peoples and study of speaking, understanding, reading, and writing French. (University Studies course) (3)

**FR 120. French Language and Culture II.** Continued study of the culture of French-speaking peoples through the practice of speaking, understanding, reading, and writing French. Prerequisite: FR 100 or equivalent. (University Studies course) (3)

**FR 200. French Language and Culture III.** Continued study of French language and culture. Cultural conversational and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: FR 120 or equivalent. (University Studies course) (3)

**FR 220. French Literature.** Designed to develop ability to read French literary texts; to acquaint students with a selection of major French authors; to introduce

basic concepts of literary analysis; to increase students' ability to speak and understand French through class discussions in French. Prerequisite: FR 200 or equivalent. (University Studies course) (3)

**FR 301. Intermediate French Composition.** Review of the fundamentals of grammar; stylistic analysis of famous authors; free composition. Explication de textes. Prerequisite: FR 220. (3)

**FR 302. Experiencing French Language and Culture.** Sharing a residence hall (one semester) with an international, native French-speaking student. Prerequisites: Limited to non-native, French-speaking students concurrently enrolled in a French class (200-level or above) living with native French-speaking roommate in designated residence hall; cum. GPA 2.00 or higher. (1)

**FR 305. Conversational French.** Practice in spoken language; prepared talks based on contemporary French periodicals and famous short stories; free discussion of current topics. Prerequisite: FR 220. (3)

**FR 306. Contemporary France.** Study in recent social and cultural issues and events in France (discussion in French). Materials include current French periodicals, slides and tapes. Prerequisite: FR 220. (3)

**FR 311. Survey of French Literature II.** From 1800 to present. Prerequisite: FR 220. (3)

**FR 315. Commercial French.** Review of correct written expression, letter style, preparation of business transactions, and the economic structure of France. Prerequisite: FR 220. (3)

**FR 320. French Pronunciation and Phonetics.** Detailed study of French vowel and consonant sounds, rhythm and intonation: intensive practice in hearing and pronouncing the sounds of French. Prerequisite: FR 220. (3)

**FR 330. French Grammar.** Review of the elements of French grammar and study of the essential structures of the language. Prerequisite: FR 220. (3)

**FR 375. French Cinema.** Study of major French films and filmmakers in the context of French culture. In French. Prerequisite: FR 220 or consent of instructor. (3)

**FR 402. Independent Study in French.** Advanced-level study of language, culture, or literature for French majors. May be repeated once for credit. Prerequisites: FR 220; consent of department. (3)

**FR 415. Seventeenth Century French Literature.** Study of masterpieces composed during the French Classical period. Emphasis on the dramas of Corneille, Racine and Moliere. Prerequisite: FR 220. (3)

**FR 430. Twentieth Century French Literature.** Study of the major trends of French literature from World War I to the present. Prerequisite: FR 220. (3)

**FR 495. Foreign Language Internship in French.**

Work experience using French in a professional setting in a business or agency. Prerequisite: French major; Jr. standing with 24 hours in French; 2.50 cumulative GPA and 3.0 in French; approval of Department of Global Cultures and Languages; a level of proficiency in French appropriate to the professional setting as evaluated by the departmental assessment procedures. (3)

**See University Studies (UI) listings for description of:**

**UI 362. Contemporary French Culture.** (3)

**GEOGRAPHY (GG)****GG 150. Peoples and Places of the World.**

Spatial treatment of ethnic diversity of the world's macro cultures (e.g. Europe) and contemporary social problems associated with economic development. (University Studies course) (3)

**GG 170. European Peoples and Civilization.** An examination of the geographical expansion of distinctive peoples and regional cultures of Europe. Themes include hearth areas, patterns of diffusion, areas of distribution, and conflict between cultures. (University Studies course) (3)

**GG 180. Cultural Geography.** Study of the interrelationship of the components of human cultures, i.e., belief, social and material systems. Emphasis on social geographic principles and issues. (University Studies course) (3)

**GG 181. Cultural Heritage Travel: An Introduction.** An overview of the concepts of cultural and heritage travel and a description of the history of the travel industry. Two Saturday field trips required. (3)

**GG 320. Political Geography.** Analysis of ways in which man organizes space for political purpose. Case studies of interactions of geographical areas and political processes. (3)

**GG 497. Geography Internship.** Internship with approved professionals in selected Geotourism programs. Experience in all phases of Geotourism agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in major; 2.25 cumulative GPA; faculty advisor's approval. (12)

**GG 561-563. Advanced Topics in Geography.** Lectures, discussions, laboratories, field trips and assigned readings in various fields of geography. Topics vary. May be taken more than once. (1-3)

**See University Studies (UI) listings for descriptions of:**

**UI 307. Economic Geography.** (3)

**UI 308. Cultural and Physical Landscapes of the World: A Geographical Analysis.** (3)

**UI 401. American Cultural Landscapes.** (3)

**GEOSCIENCES (GO)**

**GO 110. Physical Geology.** Comprehensive introduction to geology; earth materials, internal and external processes, time, resources and environmental hazards. Two lectures, one lab per week. (3)

**GO 150/050. Earth Science: Environmental Hazards.** An examination of Earth's systems, how they work, and how they relate to people, with emphasis on resulting natural and man-made hazards to society. Two lectures, one lab per week. (University Studies course) (3)

**GO 220. Meteorology.** Basic principles of atmosphere, air mass analysis, and fundamental laws governing weather forecasting. (3)

**GO 305. Environmental Geoscience.** Natural earth systems and cycles, natural hazards, mineral and energy resources, waste disposal, and environmental planning. Prerequisite: GO 110. (3)

**GO 320. Oceanography.** Introduction to historical, physical, chemical, geological, and biological oceanography, including man's interaction with the ocean. Prerequisite: GO 220. (3)

**GO 340. Remote Sensing.** An introduction to the principles/ concepts of remote sensing, its applications, and its significance in today's world. Two lectures, one lab per week. Prerequisites: GO 110; MA 133; MA 134; or consent of instructor. (3)

**GO 365. (Cross-listed as EV 365). Environmental Soil Science.** An investigation of the physical, chemical, mineralogical and microbiological features of soils and an analysis of best land use. Three lectures, one two-hour laboratory and one field trip. Prerequisites: MA 134; CH 186. (3)

**GO 445. Geographic Information Systems (GIS).** An introduction to the theory, methods, and applications of GIS for spatial data analysis. Two lectures; one lab per week. Prerequisites: IS 175; GO 340; MA 223 or SO 242; or consent of instructor. (3)

**GO 458. Environmental Geochemistry.** Application of chemical principles to the study of near surface environments. Prerequisite: CH 186. (3)

**GO 460. Environmental Hydrology.** An introduction to the interrelationships between the environment and the occurrence, distribution, movement, and chemistry of water. Emphasizing the influence of geologic processes and materials on surface

water, groundwater, and fluid and contaminant transport through the vadose zone. Two lectures; one lab per week. Prerequisites: GO 110; MA 134; or consent of instructor. (3)

**GO 471-473. Special Topics.** Lectures, laboratories, field trips, and seminars on topics in the geosciences not covered by the regular curriculum. Prerequisite: Consent of instructor. (1-3)

**GO 481-483. Independent Study.** Supervised individual study in a selected field of the geosciences. Prerequisite: Consent of department chairperson and supervising faculty member. (1-3)

**GO 491-493. Undergraduate Research.** Supervised individual research on a problem of interest to the student. Prerequisite: Consent of department chairperson and supervising faculty member. (1-3)

**GO 514. GeoInfo Science Today.** Encompasses knowledge-based computational modeling of activities and processes in the human and natural environments using geographic information systems (GIS). (3)

**GO 520. GIS Application.** Introduction to concepts, terminology, methods of Geographic Information System (GIS) technology and mapping science. (3)

**GO 555. (Cross-listed as AO 555) Soil Classification and Resource Management.** Classification of soils in terms of their physical, chemical, and mineralogical composition. Interpretation of soils in terms of proper land use, with special attention to soil erosion. Prerequisites: AO 215 or GO 110; CH 181/081/001 or CH 185/085/005. (3)

**GO 563. Advanced Topics in Geology.** Lectures, discussions, labs, field trips and assigned readings in various fields of geology. May be taken more than once. Topics vary. Prerequisite: Consent of instructor. (3)

**See University Studies (UI) listings for descriptions of:**

**IU 314. GeoInfo Science Today.** (3)

**UI 318. Earth Science: A Process Approach.** (3)

**UI 372. Earthquakes and Society.** (3)

**UI 373. Earth and Life Through Time.** (3)

**UI 416. Planetary Exploration: From Galileo to the Present and Beyond.** (3)

## GERMAN (GN)

**GN 001. German Exit Exam.** All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number GN 001 will appear on the Degree Audit. Prerequisite: Students must

have completed all coursework in German or be in their last year of completing the coursework. (0)

**GN 100. German Language and Culture I.** Acquisition of an appreciation of the culture of German-speaking peoples and study of speaking, understanding, reading, and writing German. (University Studies course) (3)

**GN 120. German Language and Culture II.** Continued study of the culture of German-speaking peoples through the practice of speaking, understanding, reading, and writing German. Prerequisite: GN 100 or equivalent. (University Studies course) (3)

**GN 200. German Language and Culture III.** Continued study of German language and culture. Cultural, conversational and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: GN 120 or equivalent. (University Studies course) (3)

**GN 220. German Literature.** Designed to develop the ability to read German literary texts; to acquaint students with major German authors; to introduce basic concepts of literary analysis; and to increase the ability to speak and understand German through class discussions in German. Prerequisite: GN 200 or equivalent. (University Studies course) (3)

**GN 301. Intermediate German Composition.** Designed to develop fluency in written composition. Prerequisite: GN 220. (3)

**GN 302. Experiencing German Language and Culture.** Sharing a residence hall (one semester) with an international, native German-speaking student. Prerequisites: Limited to non-native, German-speaking students concurrently enrolled in a German class (200-level or above) living with native German-speaking roommate in designated residence hall; cum. GPA 2.00 or higher. (1)

**GN 305. Conversational German.** Designed to increase fluency and comprehension in the spoken language. Prerequisite: GN 220. (3)

**GN 310. Survey of German Literature I.** Overview of the major periods and authors of German literature from the Middle Ages to the mid 1700's. Prerequisite: GN 220. (3)

**GN 311. Survey of German Literature II.** Overview of the major periods and authors of German literature from the mid 1700's to the present. Prerequisite: GN 220. (3)

**GN 315. Commercial German.** Review of correct written expression, letter style, preparation of business transactions, and the economic structure of Germany. Prerequisite: GN 220. (3)

**GN 320. German Culture and Civilization.**

Survey of the cultural background of German-speaking countries: Germany, Austria, and Switzerland. Prerequisite: GN 220. (3)

**GN 330. German Grammar.** Review of the elements of German grammar and study of the essential structures of the language. Prerequisite: GN 220. (3)

**GN 340. German Phonetics and Pronunciation.** Study of German vowel and consonant sounds, stress, rhythm, intonation; intensive practice in hearing and pronouncing the sounds of German. Prerequisite: GN 220. (3)

**GN 375. History of German Film.** A study of the history of German film from 1919 to the present, including the Weimar Republic, the Third Reich, Post War East and West Germany, and contemporary developments. Prerequisite: GN 220; consent of department. (3)

**GN 402. Independent Study in German.** Advanced-level study of language, culture, or literature for German majors. May be repeated once for credit. Prerequisites: GN 220; consent of department. (3)

**GN 424. Twentieth-Century German Literature.** A study of German literature during the Weimar Republic, the Third Reich, the Post War Period and the late twentieth century. Prerequisite: GN220 or consent of instructor. (3)

**GN 440. Special Topics: German.** A course designed to permit flexibility. Topic will vary according to a list of 18 potential topics. May be repeated for credit. Prerequisite: GN 220. (3)

**GN 495. Foreign Language Internship in German.** Work experience using German in a professional setting in a business or agency. Prerequisite: Declared German major; Junior standing, with completion of a minimum of 24 credit hours in German; 2.50 GPA and 3.0 in German; a level of proficiency in German appropriate to the professional setting as evaluated by the departmental assessment procedures; approval of the Department of Global Cultures and Languages. (3)

## **HEALTH MANAGEMENT (HL)**

**HL 111. Introduction to Health Management.**

Overview of job opportunities, professional organizations, and professional preparation in health management (athletic training, exercise science, and health promotion). (3)

**HL 113. Medical Terminology.** Analysis of root words, prefixes and suffixes for understanding medical language; origin, modern usage and abbreviations. (3)

**HL 116 (Cross-listed as PE, RC, SM 116). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**HL 120. Health Perspectives.** An examination of world-wide health issues with emphasis on the impact that individual health behavior decisions have on personal, society, and world well-being. (University Studies course) (3)

**HL 210. Health and Safety.** The nine areas of health competencies with emphasis on personal health and safety. Required for K-12 certification. (2)

**HL 231. Fitness Conditioning.** Individualized approach to fitness/wellness concepts and their application. Emphasis on experiencing a directed exercise program. Two hours lecture, one hour lab. Prerequisite: Declared Health Management major. (3)

**HL 251. Introduction to Athletic Injuries.** Current methods in prevention, recognition, and management of physical activity and sport related injuries. (3)

**HL 260. Health Promotion Practicum.** Observation and limited participation as a para-professional in local health promotion programs. Six hours field work; one hour seminar per week. Prerequisites: HL 111; HL 120; sophomore standing; Health Management major or departmental minor. (3)

**HL 261. Exercise Science Practicum.** Observation and limited participation as a para-professional in local exercise science programs. Six hours field work, one hour seminar per week. Prerequisites: HL 111; HL 120; sophomore standing; Health Management major or departmental minor. (3)

**HL 263. Sports Injury Management.** Advanced study of prevention techniques, assessment and rehabilitation procedures, legal issues, and general medical conditions of the physically active. Prerequisite: Admission to ATEP; HL 251; HL 280. (3)

**HL 265. Therapeutic Modalities.** Exploration of the physical principles, physiological effects, indications, contraindications, safety precautions, operating procedures of therapeutic modalities. Three lectures and one 2-hour lab. Prerequisites: HL 282; HL 321; PH 106. (3)

**HL 280. Basic Skills in Athletic Training.** The study and observation of the treatment of athletic injuries under the guidance of physicians and/or National Athletic Trainers' Association certified athletic trainers. Prerequisites: Health Management major or consent of instructor. (1)



**HL 281. Practicum in Athletic Training I.** First of five supervised clinical experiences in the application of Athletic Training techniques. Prerequisite: Admission to ATEP; HL251; HL280. (1)

**HL 282. Practicum in Athletic Training II.** Assessment of emergency medical situations, orthopedic injuries of the lower extremity, and the thoracic and lumbar spine. Prerequisite: HL263; HL281. (1)

**HL 303. (Cross-listed as RC 303). Research Methods.** Overview of research methods in health and recreation with emphasis on research designs, instrument construction, and basic data management. Prerequisites: HL 111, or RC 140; Health Management or Recreation major. (3)

**HL 306. Aging and Exercise.** The role of exercise in the aging process. Emphasis placed on the over 60 generation. (3)

**HL 310. Health Instruction.** Materials and procedures for teaching health in the school system. The course contains an in-the-school component. Prerequisite: HL 120 or equivalent. (3)

**HL 312. Sport and Exercise Pharmacology.** The study of the basic principles of pharmacology, the classification of drugs and their impact on a physically active population. Prerequisite: BS 113 or consent of instructor. (3)

**HL 316 (Cross-listed as RC, SM 316). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**HL 320. Community Health.** A study of health issues and problems related to the community. Prerequisite: HL 120. (3)

**HL 321. Advanced Injury Assessment I.** Study of athletic injury assessment principles and techniques at the advanced level. Specific areas include assessment of emergency medical situations, orthopedic injuries of the lower extremity, abdomen/thorax, and the thoracic and lumbar spine. Prerequisites: HL 263, HL 281; Co-requisite: HL 282. (3)

**HL 322. Advanced Injury Assessment II.** Study of athletic injury assessment principles and techniques at the advanced level. Specific areas include assessment of emergency medical conditions, head injuries, and orthopedic injuries of the cervical spine and upper extremity. Prerequisites: HL 282; HL 321; Co-requisite: HL 383. (3)

**HL 323. Advanced Injury Assessment III.** Assessment of the head, neck, face, thorax, abdomen and thoracic and lumbar spine injuries in athletes and

others engaged in physical activity. Prerequisites: HL 265; HL 322; HL 383. (3)

**HL 324. Group Exercise Instruction.** The methods and techniques used to teach a wide variety of group exercise classes. Pre- or corequisites: HL 331. (3)

**HL 331/031. Exercise Physiology.** Physiologic control of the human body during acute exercise, and adaptations to regular exercise stress. Emphasis on relationships among health, physical fitness, and exercise. Two hours lecture (HL 331), two hours lab (HL 031) must be taken concurrently. Prerequisites: BS 113/013; BS 114/014; CH 180 or CH 181/001/081; MA 134. Prerequisite or Co-requisite: HL 231. (3)

**HL 332. Lifestyle Disease Risk Reduction.** Overview of the principles of epidemiology and lifestyle disease pathophysiology. Examination of the use of epidemiologic research to identify risk factors for disease. Prerequisite: BS 113/013; BS 114/014; HL 260 or HL 261. (3)

**HL 345. Resistance Training Principles and Practices.** The scientific principles of resistance training and strength/power with emphasis on applications for improving health and performance. Prerequisite: HL 331. (3)

**HL 346. Weight Management Principles and Practices.** The scientific principles of weight management with an emphasis on lifestyle modification for improving health. Prerequisites: HL 331; HL 332; or consent of instructor. (3)

**HL 361-363. Independent Study in Health, Human Performance and Recreation.** Directed individual study of special interest areas in health and leisure. (1-3)

**HL 382. Medical Aspects of Sport.** Introduction to various medical conditions and disorders concerning allied health professionals in different areas of specialization. Prerequisites: BS 113; BS 114; or consent of instructor. (2)

**HL 383. Practicum in Athletic Training III.** Assessment of emergency medical situations, head injuries, and orthopedic injuries of the cervical spine and upper extremity. Prerequisite: HL 282; HL 321. (1)

**HL 384. Practicum in Athletic Training IV.** Fourth of five supervised clinical experiences in the application of Athletic Training technique. Prerequisite: HL 322; HL 323; HL 383. (1)

**HL 431. Fitness Assessment and Exercise Programming.** Methods used in assessing fitness and in developing exercise programs to achieve optimal health. Prerequisite: HL 331/031. (4)

**HL 432. Health Promotion Programs.** Exposure to the planning and implementation of health risk screenings and educational components of health promotion programs. Prerequisite: HL 332. (3)

**HL 444. Rehabilitation of Sports Injury.** Study of rehabilitation principles and techniques used to safely return a physically active individual to their sport/activity following injury. Prerequisite: HL 265; HL 322; HL 383; Co-requisite: HL 384. (3)

**HL 460. Exercise Leadership.** Exercise Science theory applied to conditioning programs. Emphasis on exercise conditioning program design for apparently healthy and special populations. Prerequisite: HL 431. (3)

**HL 471. Fitness Facility Administration.** Administrative considerations of fitness facilities. Standards and guidelines for facility planning and design, equipment, marketing, organization, and personnel considerations. Prerequisite: HL 331. (3)

**HL 472. Administration of Athletic Training.** Administrative components of athletic training programs. Facility design, supply ordering, budget and inventory, insurance, personnel, educational, pre-season physical examinations. Prerequisites: HL 384; HL 444. (3)

**HL 480. Seminar in Athletic Training.** A capstone course addressing current prevention, assessment, and rehabilitation of the most common conditions found in an athletic training environment. Prerequisites: HL 384; HL 444. (2)

**HL 481. Practicum in Athletic Training V.** Final supervised clinical experience. Focus includes the development, implementation, documentation of comprehensive injury/illness treatment plans including psychological, nutritional, pharmacological, and general medical considerations. Prerequisites: HL 265; HL 444. (1)

**HL 490. Program Planning and Evaluation.** Focus on planning, implementing and evaluating worksite health promotion programs. Prerequisite: HL 432. (3)

**HL 498. Health Internship.** Internship with approved professionals in selected Health Management programs. Experience in all phases of a Health Management agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in the major; 2.25 cumulative GPA; faculty advisor's approval. (12)

**HL 499. Athletic Training Internship.** Internship with certified athletic trainers and/or other allied health professionals in selected Sports Medicine programs. Prerequisites: HL 312; HL 384; 2.50 GPA in the major;

2.25 cumulative GPA; faculty advisor's approval. (6)

**HL 510. Health Concerns of Aging.** Health issues as they relate to the aging process. (3)

**HL 511. Applied Anatomy.** Location and action of skeletal muscles. Anatomy and biomechanical principles of movement as applied to rehabilitation, physical activity, and common anatomical injuries and disease. (3)

**HL 526. Health Behavior Change.** Behavior change theory, principles, predictive models, and their application to health behavior change programs and interventions. (3)

**HL 531. Advanced Exercise Testing.** Development of knowledge and skills necessary to conduct exercise tests in clinical settings. Two hours lecture; two hours lab. Prerequisites: HL 431 or consent of instructor. (3)

**See University Studies (UI) listings for descriptions of:**

**UI 354. Lifestyle Enhancement.** (3)

**UI 412. American Health Care Systems and Issues.** (3)

## **HISTORIC PRESERVATION (HP)**

**HP 007. Professional Portfolio Review.** Historic Preservation majors are required to have a professional portfolio review after completion of the Historic Preservation major requirements. See advisor for details. (0)

**HP 100. Introduction to Historic Preservation.** Survey of historic preservation in the U.S.; theory, philosophy, and methods of maintaining the culture of the past. (3)

**HP 101-103. Topics in Historic Preservation.** Examination of specialized topics or issues in historic preservation. (1-3)

**HP 200. Introduction to the Techniques of Local History.** Introduction to value, techniques and methods of local history for the preservationist. Prerequisite: HP 100 or consent of instructor. (3)

**HP 300. Topics in Historic Preservation.** Examination of selected topics or issues in Historic Preservation. (3)

**HP 391-393. Independent Study in Historic Preservation.** Directed individual study of special topics in historic preservation. (1-3)

**HP 405. Archives and Special Collections Management.** Theories, operational issues and their applications to the organization and administration of archives and special collections in public and private institutions. Prerequisite: HP 100 or consent of instructor. (3)

**HP 410. Museum Studies.** History, development, theory, and role of museums. Survey of methods, practices and types of museums to acquaint students with the profession. Prerequisite: HP 100 or consent of instructor. (3)

**HP 420. Historic Site Administration.** Study of the problems, techniques and administration of historic sites. Prerequisite: HP 100 or consent of the instructor. (3)

**HP 450. Problems in Historic Preservation.** Projects in historic preservation that acquaint the student with a broad spectrum of academic/practical problems that complement professional training. Prerequisite: HP 405 or HP 410 or HP 420; or consent of instructor. (3)

**HP 500-502. Historic Preservation Internship I, II, III.** Professional practicum requiring demonstration of Historic Preservation competency in appropriate settings under the direction of cooperating site administrators and a University coordinator. (3-9)

**HP 540. Topics in Historic Preservation.** Examination of specialized topics or issues in historic preservation. (3)

**HP 552. Historic Preservation Field School.** Intensive field experience in documenting and preserving the built environment and the historic landscape. (3)

**HP 580. History of American Building Materials and Techniques.** Survey of traditional construction materials and methods used in building and structures in the United States from the late sixteenth century to the recent past. (3)

**HP 585. History of American Architecture.** The study of architectural history as material evidence of America's social, cultural, economic, and technological development. Prerequisite: HP 200 or consent of instructor. (3)

**HP 588. Legal and Economic Principles of Historic Preservation.** A study of the legal and economic aspects in the procedures for locating, recording and preserving of America's historical, architectural and cultural resources. Prerequisite: HP 585 or consent of instructor. (3)

**HP 589. Historic Preservation Based Economic Revitalization.** Study of the role of historic preservation in the revitalization of America's historic downtowns. (3)

## **HISTORY, EUROPEAN (EH)**

**EH 101. Early European Civilization.** Survey of the history of Early European Civilization from its ancient beginnings to the post-Columbian era. (University Studies course) (3)

**EH 103. Modern European Civilization.** A survey of the history of European civilization from its inception in the Middle Ages to the contemporary period. (University Studies course) (3)

**EH 115. Ancient Greece and Rome.** A study of the development of ancient Greek and Roman Civilizations, their cultures, art, politics, and religious beliefs. (University Studies course) (3)

**EH 362. Medieval History.** From 476 to 1300. An examination of the rise and development of medieval Civilization from the late Classical Age to the time of Dante. (3)

**EH 364. Early Modern Europe.** Survey of political, social, economic, cultural and intellectual developments in Europe from 1450-1815. (3)

**EH 366. Age of the French Revolution and Napoleon: 1700-1815.** A study of Eighteenth Century European history with a special emphasis on the impact of the French Revolution and Napoleon. (3)

**EH 368. Nineteen Century Europe.** Provides a broad overview of the political, social, and economic development of Europe from the end of the Napoleonic Wars to the outbreak of World War I. (3)

**EH 370. Europe in the Twentieth Century, 1914-Present.** Two world wars and their effects, the rise of totalitarian states, Europe's changed position in the world, and efforts at European cooperation. (3)

**EH 400. Topics in European History.** Study of selected topics in European History. (1-3)

**EH 412. Age of Rome.** History of Rome: Roman Republic and Empire. (3)

**EH 416. British History to 1688.** Survey of the development of English political, social and economic institutions to 1688. (3)

**EH 418. Modern Britain.** Survey of British history and institutions from 1689 to the contemporary era. (3)

**EH 480. Crusades.** Study of the medieval phenomenon known as the "Crusades" through primary sources and a variety of historical perspectives, including gender history, spanning from the eleventh century to the present day. (3)

**EH 516. History of Modern Germany.** Germany in the Nineteenth and Twentieth Centuries. (3)

**EH 518. History of Soviet Russia.** The 1917 revolution and analysis of the history and policies of the U.S.S.R. (3)

**EH 520. History of Spain and Portugal.** Survey of the history of Spain and Portugal from the Roman era to the present. (3)

**EH 527. Intellectual History of Europe.**

Examination of intellectual and social history of Europe from the seventeenth century to the twentieth century. (3)

**HISTORY, GENERAL (GH)**

**GH 007. BA Portfolio Review.** Assessment experience required of all Bachelor of Arts-History major. (0)

**GH 301-303. Independent Study.** Directed individual study of special topics in general history. (1-3)

**GH 315. Historiography.** Growth and development of historical writing, its methods and interpretations. (3)

**GH 415. Senior Seminar in History.** Capstone course for the Bachelor of Arts in History, focusing upon the methods and tools of the historian, culminating in a public presentation of a major paper. (3)

**GH 520. Techniques of Oral History.** Study and practice in designing and carrying out oral history projects. (3)

**HISTORY, UNITED STATES (US)**

**US 105. American History I.** A study of the history of the United States from the colonial beginnings to 1877. (University Studies course) (3)

**US 107. American History II.** A study of the history of the United States from 1877 to the present. (University Studies course) (3)

**US 200. Topics in American History.** Study of selected topics in American history. (1)

**US 302. History of Missouri.** History of the state from earliest explorations to present. (3)

**US 350. Colonial America.** Colonial period through the American Revolution. (3)

**US 352. New American Republic 1789-1840.** Course examines significant political, social, and cultural developments in American civilization during the formative period from the ratification of the Constitution to the antebellum era and conflicting interpretations of those developments. (3)

**US 354. Civil War Era 1840-1896.** A study of America as influenced by the Civil War, expansion, and imperialists of the period 1840-1896. (3)

**US 356. Progressive America.** Economic, diplomatic, political, and cultural developments from 1877 to 1920. (3)

**US 358. Modern America, 1945-Present.** An analysis of American domestic and foreign policy, focusing on the role of the President since 1950. (3)

**US 360. Women in American History.** Study of American history from colonial times to present, from perspective of women. (3)

**US 365. History of the Vietnam War.** A study of the Vietnam War, with emphasis upon American involvement, 1945-75. (3)

**US 400. Topics in American History.** Study of selected topics in American history. (1-3)

**US 420. African American Slavery.** A study of Africans in America, both slave and free, from 1619 to 1865. (3)

**US 430. American South.** Survey of the economic, intellectual, political, and social development of the South from the colonial period to the present. (3)

**US 440. United States in World War II.** Survey of political, economic, military, social and cultural life in the United States between 1939 and 1945. (3)

**US 452. Cold War America.** Survey of American political, military, social, intellectual, and cultural life from 1945 to 1991. (3)

**US 460. The 1960's in America.** Examination of American political, military, social, intellectual and cultural life from roughly 1961 to 1974. (3)

**US 470. America in the 1970's.** Survey of American political, military, social intellectual and cultural life from 1968 to 1980. (3)

**US 507. Civil War and Reconstruction.** Study of the social, economic, military and political aspects of the Civil War and Reconstruction periods of American history. (3)

**US 509. American West.** Survey of the economics, political, cultural, social, and intellectual development of the western region of the United States from the earliest American involvement to the present. (3)

**US 511. American Foreign Relations.** Examination of the history of American foreign relations from the founding of the nation to the present. (3)

**US 520. History of American Ideas.** Examination of patterns in American thought from the colonial period to the present. (3)

**US 525. American Urban History.** Study of the origins, growth, and historical influence of American cities from the colonial town to the modern metropolis. (3)

**US 528. American Economic History.** Study of the economic development of the U.S. in its historical perspective. (3)

**US 531. American Military History.** Study of changing relationships between civil/military authority of warfare and its impact upon democratic institutions. (3)

## **HISTORY, WORLD (WH)**

**WH 100. African Civilization.** A study of the development of African civilizations from ancient times to the present. (University Studies course) (3)

**WH 110. Chinese Civilization.** A survey of the history of Chinese civilization from its inception in ancient times to the contemporary period. (University Studies course) (3)

**WH 125. Islamic Civilization.** A survey of the history of Islamic civilization from the time of Muhammad until the present. (University Studies course) (3)

**WH 130. Latin American Civilization.** A survey of Latin American civilization from PreColumbian times to the present with emphasis on the mixture of cultures and the struggle for modernity, including an examination of cultural, social, economic and political forces which have shaped Latin American Civilization. (University Studies course) (3)

**WH 200. Topics in World History.** Study of selected topics in world history. (1)

**WH 305. (WH 105). World Civilizations.** Examination of a wide array of world civilizations and the methods and frameworks utilized by historians of the global world. (3)

**WH 400. Topics in World History.** Study of selected topics in world history. (1-3)

**WH 410. Age of Greece.** Survey of ancient Greece from the Bronze Age through the period of Alexander the Great. (3)

**WH 430. History of China and Japan.** Study of the history and culture of China and Japan, with special emphasis on Western influence on those nations. (3)

**WH 440. Modern Middle East.** Investigation of the political, economic, social, religious, and cultural developments of the Middle East from Napoleon's invasion of Egypt in 1798 to the present. (3)

**WH 520. Latin American Colonial History.** Survey of the Iberian and Indian background to the voyages of discovery European conquest; establishment of imperial institutions, Bourbon reforms of the eighteenth century and the origins of independence. (3)

**WH 522. History of South America.** Survey of the development of the major nations of South America since independence with particular attention to revolutionary change and the evolution of democracy. (3)

**WH 524. History of Mexico.** Examination of modern Mexico from the wars of independence to the present with emphasis upon Santa Anna, Juarez, Maximilian, Porfirio Diaz, and the Mexican Republic. (3)

**WH 550. The Atlantic World.** The political, social, economic and cultural history of the Atlantic world from 1492 to 1830. (3)

**See University Studies (UI) listings for descriptions of:**

**IU 306. Perspectives on Urban Design.** (3)

**UI 306. Film and History.** (3)

**UI 312. Perspectives on the Present.** (3)

**UI 313. The African-American Experience.** (3)

**UI 320. The Modern Presidency.** (3)

**UI 414. The American Temper: Ideas in Conflict.** (3)

**UI 418. European Mind.** (3)

**UI 446. Civil Rights Movement.** (3)

**UI 448. American Revolutionary Experience.** (3)

## **HORTICULTURE (HO)**

**HO 110. Introduction to Horticulture.** Explores horticulture as a dynamic blending of science, business and society that makes the world a better place to live. Two lectures; two-hour lab. (3)

**HO 130. Plant Identification and Use I.** Identification, nomenclature, classification, cultural requirements, and landscape uses of trees, shrubs, vines and herbaceous plants. Two lectures; two-hour lab. Pre- or corequisite: HO 110. (3)

**HO 215. Practical Horticulture Experiences.** Practical, hands-on experience in basic outdoor and indoor plant care and culture, including experience with associated tools and machinery. Two-hour lab. (1)

**HO 230. Plant Identification and Use II.** The identification, nomenclature, classification, cultural requirements and landscape uses of trees, shrubs, vines, and herbaceous plants. An extension of HO 130. Two lectures; two-hour lab. Prerequisite: HO 130. (3)

**HO 310. Alternative Agriculture.** Alternatives for owner-operator enterprises including specialized crops and community supported agriculture. Two lectures; one two-hour lab. Prerequisite: AO 120 or HO 110. (3)

**HO 320. Nursery Administration and Culture.** Administrative principles and production policies associated with for-profit nursery operations. Two lectures; one two-hour lab. Prerequisite: HO 110. (3)

**HO 321. Advanced Plant Propagation.** Scientific theory and commercial practices of plant propagation by spore, seed, cuttings, layering, division, budding, grafting, micropropagation and specialized structures. Two hours lecture; one two-hour lab. Prerequisite: HO 110. (3)

**HO 330. Landscape Design.** Theory of landscape design. The selection and placement of plants and other structural objects in the design of landscapes for human use and enjoyment. One hour lecture; two two-hour labs. Prerequisite: HO 110. (3)

**HO 342. Production of Horticulture Crops.** Fundamental principles involved in the production of fruit, vegetable and nursery crops for wholesale or retail markets. Establishment, maintenance and marketing of commercial crops adapted to this area. Two lectures; two-hour lab. Prerequisite: HO 110. (3)

**HO 350. Greenhouse Management.** Location, types, covering, environmental controls, costs, greenhouse design, maintenance and use in growing plants, and cultural practices. Three lectures; two-hour lab. Prerequisite: HO 110. (4)

**HO 355. Interior Plantscaping.** Identification, selection, installation, maintenance and management of plants used in interior environments. Two lectures; two-hour lab. (3)

**HO 430. Turfgrass Management.** Establishing and maintaining plantings on athletic fields, golf courses, parks, residential and commercial grounds. Two lectures; two-hour lab. Prerequisite: AO 120 or BO 200 or HO 110. (3)

**HO 431. Landscape Installation and Maintenance.** Explores establishing and maintaining landscapes. Two lectures; one two-hour lab. Prerequisites: HO 110; HO 130. (3)

**HO 445. Composting and Utilization in Horticultural Systems.** Compost production methods, chemical and biological processes, quality, and utilization in horticultural cropping systems. Two lectures; two-hour lab. Prerequisite: AO 120 or HO 110 or consent of instructor. (3)

**HO 450. Vineyard Operations.** Operational principles and management policies associated with for-profit vineyard enterprises. Two lectures; two-hour lab. Prerequisite: AO 120 or HO 110 or consent of instructor. (3)

**HO 464. Advanced Horticulture.** Explores hydroponics, tissue culture, nontraditional plant breeding, plasticulture, and advanced sports turf applications in horticultural systems. Two lectures; two-hour lab. Prerequisites: HO 230; HO 342 or HO 350. (3)

**HO 530. Home Horticulture.** Horticulture as related to modern living. Designing and planting the home landscape including the fundamentals of establishing vegetable gardens, fruit orchards and vineyards. Plant identification, establishment and maintenance of ornamental trees, shrubs, vines, turfgrasses, ground covers and flowering plants. One hour lecture; two-hour lab. (2)

## **HUMAN ENVIRONMENTAL STUDIES (HE)**

**HE 310-312. Independent Study in Human Environmental Studies.** Directed individual study of problems and special topics in human environmental studies. (1-3)

**HE 317-320. Field Experience in Human Environmental Studies.** An intensive investigation or study of an individual system related to an area in human environmental studies on a selective basis. Prerequisite: 12 hours home economics courses. (1-4)

**HE 505-508. Problems in Family and Consumer Sciences Education.** Directed study of special problems in family and consumer sciences education through seminars, workshops, forums, etc. (1-4)

**HE 520. Techniques of Teaching Nutrition and Health Education.** Utilization of educational principles and theory for instructional planning, implementation, and evaluation for nutrition and health education. Prerequisites: FN 235 and/or FN 255. (3)

**See University Studies (UI) listings for description of:**

**UI 343. Transcultural Experience.** (3)

## **INDUSTRIAL EDUCATION (IE)**

**IE 105. Problems in Vocational and Industrial Education.** Study of topics to improve classroom effectiveness of in-service vocational trade and technical teachers. Prerequisites: IE 193 or IE 593. (3)

**IE 185. Fundamentals of Aeronautical Knowledge.** Theory of flight, dead reckoning and radio navigation, meteorology, radio phraseology, FFA regulations, use of flight computer and plotter. (3)

**IE 186. Primary Flight.** Flight instruction with local firm and/or flight simulator. Approximately 20 flight hours. (1)

**IE 188. Primary Flight.** See IE 186. Approximately 40 flight hours. (2)

**IE 190. Assessment for Career and Technical Education.** Study of the processes of collecting data for the purposes of making decisions about individuals, courses, and programs related to vocational education. (3)

**IE 192. Selection and Organization of Subject Matter.** Development and evaluation of courses of study, objectives, content selection and arrangement, and preparation of job and assignment sheets. (3)

**IE 193. Principles and Practices of Teaching Industrial Subjects.** Techniques of teaching vocational subjects and processes used to teach skills, including

demonstrations, lectures, instruction sheets, and related audiovisual materials. (3)

**IE 194. Guidance in Career and Technical Education.** Study of the purposes, assumptions and problems of vocational guidance. Investigation of individual inventories, occupational choice, job placement and evaluation. (3)

**IE 195. Teaching Adults in Career and Technical Education.** Development of adult education; primarily the problems of and approaches used in interesting adults in continuing education. (3)

**IE 196. Foundations of Career and Technical Education.** Study of history, philosophy, definitions, certification, state plan, area vocational schools, state department evaluations, advisory committees, facilities, funding and administration. (3)

**IE 197. Coordination of Cooperative Education.** Organization and operation of cooperative programs, including advisory committees, classroom development of training stations, methods of instruction and student organizations. (3)

**IE 301-303. Independent Study in Industrial Technology Education.** Investigation of concerns and studies not covered by scheduled classes. (1-3)

**IE 334. Historical Restoration Methods and Techniques.** Overview of historical restoration methods and techniques. Identification and research related to the tools, materials and methods of a particular historical period. (3)

**IE 335. Techniques of Historical Reconstruction.** Combined lecture/laboratory course where students restore portions of a structure or household items as originally made. (3)

**IE 401. Technology Education Management.** Study of the design, development and management of technology education facilities and related equipment. Prerequisite: Acceptance to Teacher Education. (3)

**IE 590. Assessment for Career and Technical Education.** Study of the processes of collecting data for the purposes of making decisions about individuals, courses, and programs related to career and technical education. (3)

**IE 592. Selection and Organization of Subject Matter.** Study of terminology and philosophy of industrial education, objectives, analysis for development and evaluation of courses of study. (3)

**IE 593. Principles and Practices of Technical Subjects.** A technical teacher training course designed to serve Trade, Technical and Health teachers. (3)

**IE 594. Guidance in Career and Technical Education.** Problems, methods, and procedure involved

in assisting individuals to choose, prepare for, enter, and become adjusted in their vocations. For teachers, counselors and employment service personnel. (3)

**IE 595. Teaching Adults in Career and Technical Education.** Definition, importance, concepts, interests and abilities of adults, overcoming problem areas, methods of conducting classes, and role of the school system. (3)

**IE 596. Foundations of Career and Technical Education.** Introduction to foundations of career and technical education including history, philosophy, definitions, State Plan, and funding and federal acts. (3)

**IE 597. Coordination of Cooperative Education.** Organization and operation of cooperative programs, including advisory committees, classroom, development of training stations, methods of instruction and student organizations. (3)

## **INDUSTRIAL MANAGEMENT (IM)**

**IM 102. Technical Communication.** Practical aspects of preparing technical reports with emphasis on techniques of collecting and presenting technical and scientific data. Use of the microcomputer as it relates to preparing technical documents will also be covered. (3)

**IM 301. Industrial Safety Supervision.** Introduces the development and supervision of a hazard control program. Includes development of safety attitudes, detection/correction of unsafe work conditions and legislation. Prerequisite: IM 102. (3)

**IM 311. Statistical Process Control.** Data acquisition and analysis using quantitative techniques (sampling, probability, control charts, correlations, etc.) related to the management of quality assurance systems and/or quality improvement programs. Prerequisite: MA 134 or MA 135 with a grade of 'C' or higher. (3)

**IM 313. Facilities Planning.** Design and applications of physical facilities for manufacturing and production including material flow through the facility. Topics include Takt time, work station design, production line design and analysis, cell formation and layout, and facility space design. Prerequisite: IM 315 or MN 304. (3)

**IM 315. Work Measurement.** Principles and practices of motion and time study including process charts, operation charts, motion summary, time standards, line balancing, work station redesign, and job evaluation. Prerequisite: IM 102. (3)

**IM 317-319. Cooperative Industrial Internship.**

Provides on-job experiences in area industries. Students register junior year for senior-year internship. For one summer or one semester. (3)

**IM 411. Total Quality Assurance.** Examines the role(s) and application of quality concepts to modern industrial organizations. Topics include teamwork, continuous improvement, employee involvement, quality tools, ethics, and culture. Prerequisite: IM 102 and IM 311. (3)

**IM 417. Manufacturing Resource Analysis.** Prediction of costs involved in manufacturing processes and systems. Students learn how to create effective production systems throughout all production phases including planning, prediction, and control. Materials requirement planning (MRP) and inventory control are two main topics covered in the course. Prerequisite: IM 311. (3)

**IM 419. Industrial Supervision.** Fundamental processes and techniques needed by front-line supervisors to provide leadership in the modern industrial enterprise. Topics include leadership, motivation, communication, problem-solving, decision-making, and labor relations. Prerequisite: IM 301. (3)

**IM 455. Sustainable and Green Manufacturing.** Examines the concept of "sustainable manufacturing; using green materials, methods and technologies that are energy efficient, sustainable and friendly to the environment. Topics include carbon footprint management, sustainable manufacturing process design, and life-cycle assessment for industrial processes. Prerequisite: ET 425 or consent of instructor. (3)

**IM 506. Projects in Industrial and Engineering Technology.** Fundamental processes and techniques needed by industrial technologists to provide leadership in the modern enterprise. Intended to be a project based course with activities involving decision making tools. Prerequisite: IM 419 or consent of instructor. (3)

## **INFORMATION SYSTEMS (IS)**

**IS 130. Application Development I.** Design, implement and test Windows Forms based programs and applications. Two hours lecture and two hours lab. Prerequisite: MA 134 with minimum grade of 'C' or high school equivalent. (3)

**IS 175. Computer Information Systems I.** Introduction to information systems, concepts of information systems and applications and how information systems are used throughout organizations. Two hours lecture and two hours lab. Prerequisite: MA 134 with minimum grade of 'C' or high school equivalent. (3)

**IS 245. Web Development and Security.** Advanced web page programming used to develop professional and secure web pages. Topics include web page formatting and layout, and JavaScript code for manipulation of the Document Object Model (DOM). Browser/server interaction, directory management, evaluation of website impact on communication, understanding, and accessibility, along with website security is included. Prerequisite: IS 130 or CS 155 or CS 177 with a minimum grade of 'C'; or permission of instructor. (3)

**IS 275. Computer Information Systems II.** Exploration of the design, selection, implementation and management of enterprise IT solutions. Topics include advanced concepts in information systems and simple applications involving database. Two hours lecture and two hours lab. Prerequisite: IS 175 with minimum grade of 'C.' (3)

**IS 320. Human Computer Interaction.** Theory and practice of human computer interaction; designing, implementing and evaluating human computer interaction. Prerequisite: CS 155 or IS 130 with minimum grade of 'C.' (3)

**IS 330. Application Development II.** A continuation of IS130 with windows and web application development using .NET. Topics include Object Oriented Programming, database access with LINQ, windows and web applications. Two hours lecture, two hours lab. Prerequisites: IS 130; IS 175 or MI 375; with minimum grades of 'C.' (3)

**IS 339. Network Support Systems.** A technical overview of local area network (LAN) systems including a theoretical framework and hands-on experience with computer networking technology. Prerequisite: IS 275 with minimum grade of 'C.' (3)

**IS 340. Information Technology.** Covers major topics in information technology in general, with emphasis on areas in computer organization, operating systems and networks. Two hours lecture and two hours lab. Prerequisite: IS 275 with minimum grade of 'C.' (3)

**IS 360. Mobile Application Development.** Discusses mobile application design and development essentials. Topics include performance, interface, micro-browser and servers. Prerequisite: CS 155 or IS 130 with minimum grade of 'C.' (3)

**IS 375. Database and Information Systems.** Basic concepts of database systems. Topics include the Entity Relationship and Relational database models, normal forms, SWL and the design and implementation of application databases. Prerequisite: IS 245 or IS 275 with a minimum grade of 'C.' (3)

**IS 439. Electronic Commerce.** Use of computer networks to conduct commercial transactions regarding



products, services and information. Topics include electronic commerce tools, strategy and implementation. Prerequisites: IS 130; IS 275; minimum grades of 'C'. (3)

**IS 440. Web Design for Electronic Commerce.**

Developing a World Wide Web presence using advanced Web-centered technologies and exploring the design, selection, implementation and management of electronic commerce. Two hours lecture and two hours lab. Prerequisite: IS 245 with a minimum grade of 'C'. (3)

**IS 445. Systems Analysis and Design.** Principles and techniques used in systems analysis and design. Apply techniques and tools to produce analysis and design specifications required in developing information systems. Prerequisite: IS 275 with a minimum grade of 'C'. (3)

**IS 448. IS/IT Project Management.** Elements of IS/IT project management. Preparing a project plan, managing time and cost, quality and risk management, use of a project management tool. Prerequisite: IS 275 or MI 375 with minimum grade of 'C'. (3)

**IS 465. Management Support Systems.** Understanding management support systems; study of decision support systems, analysis and development, use of information systems in supporting decision making, expert and intelligent systems. Prerequisite: IS 375 with grade of 'C'. (3)

**IS 481-483. Problems in Information Systems.** (1-3)

**IS 575. IS/IT Strategy and Management.** Business alignment with technology using strategic frameworks for IT deployment in organizations. Course is of applied nature with discussions on industry practices in managing IT. Prerequisites: IS 275 or MI 375 with 'C'. (3)

## **INTERIOR DESIGN (DS)**

**DS 001. Portfolio Review.** Required for students to gain admission into the remaining Interior Design curriculum. Admission will be based on the quality of student work (professionalism, craftsmanship, creativity, and potential). Corequisite: DS 220. Prerequisites: DS 104; DS 111; CM 100 (0)

**DS 104. Exploring Interior Design.** Exploration and application of elements and principles of design. Examines fundamentals of interiors including sustainability, color, space planning and finishes. (University Studies course) (3)

**DS 111. Design Process.** Studio course introducing basic design methods and creativity through 2-D and 3-D projects using a multidisciplinary approach to creative problem solving. (3)

**DS 114. Display Design.** Study of the components involved in the art of visual presentation. Students will participate in store display and technique within the community. (3)

**DS 205. History of Interiors I.** A study of furniture styles from ancient Mesopotamia through the Renaissance with emphasis on the economic and social issues that affect the development of design. (3)

**DS 206. History of Interiors II.** A study of furniture styles from the 17th century through the contemporary movement with emphasis on the impact of the economic, political, and social issues. (3)

**DS 207. (DS 331). Interior Systems I.** Study of building systems including structural behavior, codes, hazardous materials, foundations, framing, flooring, roof systems, windows, walls and ceilings. Prerequisite: CM 100. (3)

**DS 208. Interior Systems II.** Study of distribution systems including the mechanical, electrical and plumbing systems required in the construction of healthy indoor space. (3)

**DS 211. Basic Kitchen and Bath Design.** Introduction to reading and producing working kitchen and bath documents according to the NKBA Graphic and Presentation Standards. Prerequisites: DS 104; DS 111. (3)

**DS 220. Design Communications.** Graphic presentation techniques emphasizing illustration of floor plan, elevation, plan oblique, and perspective drawings. Introduction to ink, marker, pencils, and watercolor media on typical illustration surfaces. Prerequisites: DS 104; DS 111. Co-requisite: DS 001. (3)

**DS 313. Sustainable Design.** Design of commercial and residential spaces with emphasis on sustainable practices. Interpretation and application of LEED credits and certification criteria. (3)

**DS 314. Multicultural Design.** Design of public/private areas with an emphasis on awareness respect for people of different social and cultural backgrounds. (3)

**DS 320. Advanced Design Communications.** Advanced graphic communication techniques used throughout the design process. Drawing from experience, design process drawings, and design presentation. Emphasis on current digital tools and techniques. Prerequisites: CM 126; CM 226; DS 220. (3)

**DS 330. Lighting and Electrical Systems.** Overview of light sources, luminaries and daylighting. Introduction to lighting calculations, reflected ceiling plans, electrical, data, voice and security systems. Prerequisite: DS 111. (3)

**DS 332. Materials and Cost Estimating.** A survey of interior materials and finishes utilized in commercial and residential interior design. Includes cost estimation techniques, regulations, codes, standards, and sustainable design. Prerequisite: CM 100. (3)

**DS 410. Hospitality Design.** Design of hospitality spaces with emphasis on hotel guest rooms, public areas, food and beverage outlets, administrative functions, and service areas. (3)

**DS 411. (DS 311). Advanced Kitchen and Bath.** Advanced study and implementation of space planning techniques and graphic standards for the design of kitchens and bathrooms. Prerequisites: DS 001; DS 211; DS 220. (3)

**DS 412. Contract Design.** Space planning of public areas and specialty spaces. Coverage of codes, finish and furniture schedules and specifications, and completion of professional design projects. Prerequisites: CM 126; DS 001; DS 211; DS 220. (3)

**DS 313. (DS 413). Sustainable Design.** Design of commercial and residential spaces with emphasis on sustainable practices. Interpretation and application of LEED credits and certification criteria. Prerequisites: CM 126; DS 001; DS 211; DS 220. (3)

**DS 440. Internship in Interior Design.** A career-related work experience to gain valuable professional skills related to the learning objectives in the student's area of interest. Prerequisite: completion of 75 hours or consent of instructor. (4)

**DS 450. Professional Practice in Interior Design I.** The study of the techniques and processes employed by the interior designer in the establishment of professional relationships and practices. Prerequisites: Completion of three of the following: DS 211, DS 313, DS 314, DS 410, DS 411, DS 412. (3)

**DS 451. Professional Practice in Interior Design II.** Continuation of DS 450. The study of the techniques and processes employed by the interior designer in the establishment of professional relationships and practices. Prerequisites: DS 412; DS 413. (3)

**DS 518. Environmental Design for Special Populations.** A study of the principles and theories relative to the design of effective environments for children, the elderly, and people with disabilities. (3)

**See University Studies (UI) listings for description of:**

**UI 340. Housing Perspectives.** (3)

## **INTERNATIONAL EDUCATION (IN)**

**IN 510. Introduction to Comparative Education.** An examination of schooling in different countries through contextual frameworks: philosophical and ideological; structural frameworks: social, cultural, economic, and political; and operational frameworks: pedagogical. (3)

**IN 520. Issues in Comparative and International Education.** A cross-national examination of various historical, political, economic, cultural, and social issues affecting education in selected countries throughout the world. Prerequisite: IN 510 or graduate standing. (3)

**IN 550. International Education Internship.** Intensive professional internship experience requiring demonstration of culturally appropriate intercultural education competencies. Prerequisites: SE 275; UI 347; IN 510; IN 520; or graduate standing. (3)

## **JAPANESE (JN)**

**JN 101. Japanese I.** Fundamentals of the Japanese sound system, grammar, and vocabulary. Reading and writing of the two syllabaries. Introduction to Japanese culture. (3)

**JN 102. Japanese II.** A continuation of Japanese I. The course expands on the grammar and vocabulary of the earlier course. Practice in reading the syllabaries and kanji. Prerequisite: JN 101. (3)

## **LITERATURE (LI)**

**LI 001. Literature Portfolio.** Non-credit forum for undergraduate English-Literature option majors to complete the portfolio requirement of that degree program. Students will finalize revisions of the documents they have been accumulating throughout their undergraduate careers. (0)

**LI 205. The Art of Film.** A study of the major artistic components of film and how those components are used to convey ideas or meanings. Prerequisite: EN 100. (University Studies course) (3)

**LI 220. Fiction and The Human Experience.** A study of short stories and novels by significant writers past and present. Prerequisite: EN 100. (University Studies course) (3)

**LI 221. Poetry and the Human Experience.** Focus on the elements of poetry and the techniques of interpretive reading in a survey of significant world poetry. Prerequisite: EN 100. (University Studies course) (3)

**LI 222. Mythic Dimensions of Literature.** A study of mythology and of literature with mythological themes. Prerequisite: EN 100. (University Studies course) (3)

**LI 243. Children's Literature.** Study of best forms of literature for children; development of criteria for judging children's books. Does not count for major or minor in English. Prerequisites: EN 100; EL 120 or CF 215. (University Studies course) (3)

**LI 256. The Variety of Literature.** A survey of literature in all its variety-short stories, novels, poems and drama. Emphasis on reading, analyzing, and writing about literature. Prerequisite: EN 100. (University Studies course) (3)

**LI 260. English Literature I.** Beginnings-1798. Major English writing from Beowulf to the pre-Romantic period, with attention to form, historical consideration, contents and literary types. Prerequisite: EN 100. (3)

**LI 261. English Literature II.** 1798-present. Major English writings from the beginnings of the Romantic movement to present day, with attention to form, historical consideration, content and literary types. Prerequisite: EN 100. (3)

**LI 270. American Literature I.** Beginnings-1860. Important works of American writers. Prerequisite: EN 100. (3)

**LI 271. American Literature II.** 1860-present. Important works of American writers. Prerequisite: EN 100. (3)

**LI 301. Small Press Publishing.** Advanced study in editorial and mechanical aspects of producing a literary or general interest magazine. Prerequisite: Consent of instructor. (3)

**LI 311. World Literature I.** Survey of significant literary voices from throughout the globe, including writers of fiction, poetry, and drama representing European, Asian, Middle Eastern, and African literary traditions. Begins with antiquity and ends around 1660. (3)

**LI 312. World Literature II.** Survey of significant literary voices from throughout the globe, including writers of fiction, poetry, and drama representing European, Asian, Middle Eastern, and African literary traditions. Begins around 1660 and continues to the present. (3)

**LI 345-347. Independent Study in English.** Study of topics not included in the basic curriculum. Prerequisites: EN 140; any 200-level literature course. (1-3)

**LI 385. Literature for the Secondary Classroom.** Investigation of successful application of literary theory in the secondary school through the use of multicultural literature, with emphasis on instructional practice that

engages learners in critical response to all literary genres. Prerequisite: EN 201. (3)

**LI 421. Cross-Cultural American Voices.** Studies in fiction, poetry, drama, film and nonfiction written by African American, Native American, Hispanic, Asian American, Jewish, feminist, gay, and other diverse voices. Prerequisites: EN 140; any 200-level literature course (excluding LI 243). (3)

**LI 476. Early Twentieth-Century British Literature.** Representative fiction, poetry, and drama reflecting British and Irish literature. This course will focus primarily on modernist literature (1890's through the 1940's but will conclude with the mid-century's critique of modernism and with an exploration of how the modern is echoed in the postmodern). Prerequisites: EN 140 and any 200 level literature course. (3)

**LI 510. Literature and the Bible.** Study of literature based on Biblical parallels and archetypes. Includes novels, stories, poems, and plays. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 542. Literature for the Young Adult.** Survey of literature written for young adults (grades 7-12) with emphasis on literary analysis and evaluation of literature and reading interests of young adults. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 560. Chaucer.** Chief works of Chaucer and his time. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 565. Southern Literature.** Writers of the American South from Colonial days to the present, with emphasis on Faulkner, O'Connor, Warren, Welty and Wright. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 568. Nineteenth Century American Novel.** Beginnings to 1890. Includes Cooper, Hawthorne, Twain, Howells, and James. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 570. Modern and Contemporary American Novel.** 1945-present. Includes Vonnegut, Roth, Barth, Tyler and Didion. Emphasis on techniques in fiction. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 571. Contemporary American Poetry.** Emphasis on critical interpretation of contemporary poetry. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 572. The Modern Essay.** A study of the informal or personal essay form; intensive reading of works by contemporary American and British essayists, and composition of original personal essays. Prerequisites: EN 140; any 200-level literature course. (3)

**LI 576. American Fiction of the 21st Century.**

For students who wish to study the social and cultural junctures created by American cyberpunk fiction. Examines relationships between technology and power, technology and socially-constructed identity, and technology and Enlightenment theory, while suggesting possibilities for both agency and resistance. (3)

**LI 577. Studies in Early English Literature.** Focus on the study of early modern English literature from 1450-1785. Addresses issues, periods, or genre studies in the literature of England not addressed in the regular course listings. (3)

**LI 578. Later English Literature.** Studies in Romantic, Victorian, Modern, or Contemporary literature: issue, period, or genre studies in British literature not addressed in the regular course listings. Topics will be announced when course is offered. (3)

**LI 582. Topics in Literature.** Directed study of special topics in literature. Prerequisites: EN 140; any 200-level literature course; or consent of instructor. (3)

**See University Studies (UI) listings for description of:**

**UI 306. Film and History.** (3)

**UI 341. Victorian Studies.** (3)

**UI 332. Images of Women in Literature.** (3)

**UI 431. Shakespeare's Tragedies and the Human Condition.** (3)

**UI 432. Shakespeare's History Plays and Comedies and the Human Condition.** (3)

**UI 435. Literature of Sport.** (3)

## **MANAGEMENT (MG)**

**MG 252. Business Communication.** Strategies and skills for effective writing and speaking in business organizations. Strongly recommend completion of AD 101. Prerequisite: EN 140 with a minimum grade of 'C'. (3)

**MG 301. Principles of Management.** This course will focus on the process of planning, organizing, leading and controlling the use of resources to accomplish performance goals. Prerequisite: completion of 45 hours. (3)

**MG 354. Business Negotiation: Concepts and Practice.** Skill development course designed to cultivate negotiation skills required in business settings and leadership positions. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 356. Foundations of Human Resource Management.** Study of human resource management, including equal employment law, recruitment process,

training and development, performance appraisals, and employee rights. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 362. Management Skills.** Effective leadership and team performance in organizations. Attention given to personal, interpersonal, and team skills in current management practices. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 456. Topics in Human Resource Management.** Seminar in contemporary personnel problems and issues, stressing the technical, analytical, legal and pragmatic approaches to personnel administration. Prerequisite: MG 356 with a minimum grade of 'C'. (3)

**MG 457. Organizational Behavior.** Readings/case analyses/seminar course designed to provide in-depth study of contemporary topics in organizational behavior and implications for managerial action. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 462. Organization Theory and Design.** Organizational purpose, design, structure, bureaucracy, power and politics; impact of external environmental and internal organizational factors on structure and design. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 470. Leadership in Management.** An investigation of leadership in management and the behavior associated with various leadership styles. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 471-473. Internship in Management.** Planned work/study designed to integrate cooperative practical real-world experience with academic preparation in the field of management. Prerequisites: 75 hours completed; 9 hours of MG prefix courses; Management major; overall GPA of 2.50; 2.75 GPA in management major courses; approval of internship agreement. Credit/no credit. (1-3)

**MG 481-483. Problems in Management.** Directed study of special problems in management through seminars, workshops, forums, etc. (1-3)

**MG 491-493. Independent Study in Management.** A study of an approved specific problem in management preferably one growing out of previous coursework or from business experience. (1-3)

**MG 526. Managing and Developing Talent.** Covers the human resource activities of performance management and training and development of talent. Emphasis placed on practice, applications and exercises. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 546. Acquiring & Compensating Talent.**

Covers the human resource activities of recruitment, selection and compensation of talent. Emphasis is placed on practice, applications, and exercises. Prerequisite: MG 356 with a minimum grade of 'C'. (3)

**MG 548. Project Management.**

Project organization structure and staffing; conflict management; project planning and control; pricing and estimating; earned value analysis, proposal preparation; project information systems; international project management. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 550. Improving Team Performance.**

The course will investigate team performance and the skills and techniques required to improve team performance. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 575. Information Technology Management.**

Focus on business alignment with technology as pertaining to strategic frameworks for IT deployment in an organization. Course is of applied nature with discussions on industry practices. Prerequisites: MI 375/IS 275 with a minimum grade of 'C'; senior standing. (3)

**MG 560. International Management.**

Economic, cultural, political, and environmental variables of international management. Includes trends, organization for international operations, international management of human resources. Prerequisite: MG 301 with a minimum grade of 'C'. (3)

**MG 566. Legal and Union Issues in Human Resources.**

Covers human resources topics of employment law and labor relations. Emphasis is placed on the impact of case law and union activity on organizations. Prerequisite: MG 356 with a minimum grade of 'C'. (3)

**See University Studies (UI) listings for description of:**

**IU 305. Entrepreneurship.** (3)

**UI 301. Managerial Communication Process.** (3)

**MANAGEMENT INFORMATION SYSTEMS (MI)**

**MI 375. Management Information Systems.**

Introduction to management information systems. Topics include executive information systems, management information systems, decision support systems, expert systems, teleprocessing systems. Pre or Co-requisite: MG 301 with minimum grade of 'C'. Prerequisites: Junior standing; AD 101 with minimum grade of 'C'. (3)

**MANUFACTURING ENGINEERING TECHNOLOGY (MN)**

**MN 120. Fundamentals of Engineering Design**

**Processes.** Use of conventional and computer-aided drafting techniques, electronic hardware and systems to solve problems in Engineering Graphics. Orthographic projection, sketching, lettering, dimensioning, section views, geometric constructions and auxiliary views will be covered. (3)

**MN 170. Engineering Materials and Testing.**

This course provides a comprehensive introduction to the basic science of materials engineering. Course topics include: alloying of metals; plain carbon steels and cast irons, and heat treatment; polymeric materials; and both destructive and non-destructive testing. Prerequisites: CH 181; MA 134 or MA 135. (3)

**MN 203. Industrial Materials and Processes I.**

The study of modern manufacturing processes used to convert metallic materials into products. Topics include metal cutting principles, tooling, tool geometry, basic function of conventional machines, and selecting processes and cutting parameters to obtain high surface quality. Prerequisite: MN 120; MN 170. (3)

**MN 219. Statics and Strengths of Materials.**

Investigates principles of forces, moments, resultants and static equilibrium of force systems, center of gravity, friction, and free body diagram analysis and shear and moment diagrams with practical laboratories. Prerequisites: MA 139 or MA 140; PH 120. (3)

**MN 220. Engineering Economic Analysis.**

Engineering economy topics include the effects of the time-value of money, concepts of equivalence, replacement analysis, cost/benefit analysis, tax consequences and cost of capital depreciation related to a manufacturing or engineering environment. Prerequisite: MA 134 with a grade of 'C' or higher. (University Studies course) (3)

**MN 221. Solid Modeling and Rapid Prototyping.**

Use of advanced computer aided design and drafting software, hardware, and systems to produce three dimensional drawings, renderings and actual physical prototypes of parts and assemblies. Prerequisites: MN 120; MA 134 or MA 135. (3)

**MN 260. Technical Computer Programming Applications.**

This course will focus on high level programming languages and their applications in industrial technology. Prerequisite: MA 134 or MA 135. (3)

**MN 304. Industrial Materials and Processes II.**

Continuing study of modern manufacturing processes used to convert metallic materials into products. Topics

cover computer numerical control (CNC) machine basic, metal forming processes, casting, welding, other nontraditional processes and tolerance and surface measurement. Prerequisite: MN 203. (3)

**MN 324. Mechanical Design Processes.** Machine kinematic analysis and synthesis used for design of mechanical systems to produce desired motions. Prerequisites: MN 221; PH 120. (3)

**MN 325. Print Reading for Industry.** Industrial drawings, pictorial sketching, symbols, geometric dimensioning, tolerancing, surface finishes, threads, fasteners, gears, sectional views, tooling and cams. Prerequisite: MN 120. (3)

**MN 350. Machine Design.** Principle concepts and practices in machine design, with emphasis on analyzing and synthesizing components into mechanical systems and computer based machine design process. Prerequisites: MN 219; MN 304; MN 324. (3)

**MN 354. Computer Aided Manufacturing (CAM).** The study of computer numerical control (CNC) technology and CAD and CAM integration. Topics include CAD modeling, CAM and NC code generation, surface modeling and inspection. A reverse engineering project through point collection to CNC machining is included. Prerequisites: MN 234; MN 350. (3)

**MN 356. Robotic Fundamentals.** An introduction to robotic fundamentals with emphasis on terminology, classification, sensors, socio-economic implications, safety, applications and programming methods. Prerequisites: ET 194; MA 140; MN 260. (3)

**MN 381. Power Transmission.** Theory of energy sources, power-producing machines, and power transmission methods. Applications of power systems. Prerequisite: MN 304. (3)

**MN 383. Fluid Power.** Investigates hydraulic and pneumatic systems as a means of transmitting and controlling power; includes identification of components and symbols, hydraulic system analysis and laboratory applications for fluids and gases. Prerequisite: MA 139 or MA 140; PH 120. (3)

**MN 402. Plastics and Processes.** This course encompasses the study of chemical/physical properties of plastic materials, manufacturing processes, and mold design. Prerequisites: MA 145 or MA 144; MN 354. (3)

**MN 412. Advanced Manufacturing Systems.** Provides students an opportunity to study the integration of robots, CNC, CAD/CAM, databases and automated systems into the manufacturing environment. Prerequisites: MN 356; MN 402; PH 121. (3)

**MN 416. Manufacturing Seminar.** An advanced level course involving all of the students' previous

courses in an interdisciplinary format to solve common problems. Prerequisite: senior status. (1)

**See University Studies (UI) listings for description of:**

**UI 319. Science, Technology and Society.** (3)

**UI 410. Manufacturing Research in a Global Society.** (3)

## **MARKETING (MK)**

**MK 301. Principles of Marketing.** A managerial approach to marketing focusing on matching organizational goals with customers needs in an ethical and socially responsible manner. Prerequisite: completion of 45 hours. (3)

**MK 341. Public Relations.** Basic principles of and the role of public relations in the strategy and marketing mix of profit and nonprofit organizations. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 342. Professional Selling.** Philosophies and techniques of relating products and services to the customers' wants and needs in a mutually satisfactory manner. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 343. Advertising and Promotion.** The role of advertising and promotion in the marketing process, from the business manager's point of view. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 344. Consumer Behavior.** Development of a framework within which to review the psychological, social, economic, demographic, environmental and marketing influences on consumer behavior. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 345. Introduction to Business Research.** This course deals with theories, concepts and methodology applicable in analyzing marketing and other business problems. Prerequisites: MK 301 with minimum grade of 'C'; QM 257. (3)

**MK 346. Distribution Management.** A study of the institutions and functions of channels of distribution and the physical movement of products to the consumer. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 347. Transportation.** Examines the various models of transportation available to distribute goods. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 348. Product and Pricing Strategy.** An examination of the new product development process and product management including an analysis of pricing practices and strategies. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 349. Retail Management.** Organization, management and operation of and strategy development

for retail institutions. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**MK 351. Sports Marketing.** This course will introduce students to the unique nature of sports marketing at both the professional and amateur levels. Prerequisite: MK 301 with a minimum grade of 'C.' (3)

**MK 443. Integrated Marketing Communications Practicum.** The development of integrated marketing communication strategies with major emphasis being placed on advertising; primarily an application course where students develop a promotion campaign for an existing business/organization. Prerequisite: MK 343 with a minimum grade of 'C.' (3)

**MK 447. Sales Management.** Human relations aspect of organizing and managing an outside sales force, sales analysis, planning and control. Prerequisite: MK 301 with a minimum grade of 'C.' (3)

**MK 449. Marketing Management.** An advanced review of the overall marketing process with emphasis on decision-making and strategy development. Prerequisite: 15 hours in marketing (MK) courses. Open only for marketing majors. (3)

**MK 471-473. Marketing Internship.** Training and work experience in some area of marketing under an approved field supervisor and an approved work/study plan. The student's grade will be on a credit/no credit basis. Prerequisite: 75 hours completed; 9 hours of MK prefix courses; Marketing major; overall GPA of 2.50; 2.75 GPA in marketing courses; approval of internship agreement. Credit/no credit. (1-3)

**MK 478. Global Logistics.** Study of logistics functions that involve sourcing, production, distribution, and marketing of products and services in the global marketplace. Prerequisite: MG 301; MK 301. (3)

**MK 483. Practicum in Strategic Marketing.** A supervised field experience in an area of marketing, such as advertising, product development, retailing, personal selling, or marketing research. Prerequisites: Nine hours MK courses; Marketing major; consent of instructor. (3)

**MK 491-493. Independent Study in Marketing.** Intensive study of special problems related to marketing practice. Prerequisite: Consent of the department (1-3)

**MK 555. Internet Marketing.** An introduction to the Internet as a part of a company's marketing strategy. Students will explore Internet consumer characteristics and behavior and their effect on web content. Prerequisites: AD 101; MK 301 with minimum grade of 'C.' (3)

**MK 560. International Marketing.** The marketing environments throughout the world and the management

of the marketing function on a global scale. Prerequisite: MK 301 with minimum grade of 'C.' (3)

**See University Studies (UI) listings for description of:**

**UI 351. Public Opinion Management.** (3)

**UI 359. Consumers: Buying/Having/Being.** (3)

**UI 400. Business and Ethics.** (3)

## **MASS COMMUNICATION (MC)**

**MC 001. Exit Interview.** Assessment activity completed during the final semester of coursework. (0)

**MC 101. Mass Communication & Society.** An examination of the diversity of the American mass media and its use by the audience. (University Studies course) (3)

**MC 211. Advertising & Society.** Study of the complex relationship between advertising content and placement with other facets of society. Prerequisite(s): Completion of 15 credit hours. (3)

**MC 220. News Bureau Staff.** Practical experience working on the student newspaper. Maybe repeated for a maximum of 6 credits. Prerequisites: Completion of 15 credits; approval of Media advisor. (1)

**MC 221. Media Elements.** An introduction to text, sound and picture content production and its dissemination via traditional and emerging mass media. Prerequisite: Completion of 15 credit hours, including a "C" or higher in EN 100 (or advanced placement). (3)

**MC 231. Strategic Relations.** Strategic communication techniques for leadership roles in client relations, human resources, media conferences, videoconferences, and crisis and issues management. Prerequisite: Completion of 15 credit hours. (3)

**MC 240. Radio Station Activity.** Airship experience at the KDMC radio laboratory. May be repeated for a maximum of 6 credits. Prerequisites: Completion of 15 credits; approval of Media advisor. (1)

**MC 251. TV & Film in America.** An exploration of the impact of American television and film on culture and society. Prerequisites: Completion of 15 credit hours. (3)

**MC 253. Film History.** An examination of the artistic and social impact of the cinema, from its beginnings to the present. Prerequisites: Completion of 15 credit hours. (3)

**MC 301. Mass Communication Theory & Research.** A study of research techniques commonly utilized in the mass media with a broad overview of mass communication theory. Prerequisites: Completion of 30 credit hours, including a "C" or higher in MA 155, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 304. Diversity in Communication.** An examination of the roles, impact, portrayals, perceptions, contributions and challenges of minorities in mass media content and

media professions. Prerequisites: Completion of 30 credit hours. (3)

**MC 310. Advertising Analysis & Strategy.** A survey of advertising principles and practices, stressing research and analysis with regard to companies, consumers, markets, brands and competitors. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 101. (3)

**MC 312. Advertising Creative Concepts.** Principles and techniques of producing advertising for print and broadcast media. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 310. (3)

**MC 316. Advertising Media.** Study of advertising placement in all forms of media with emphasis on comparison, target audience delivery, cost efficiency and effectiveness. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 211 and MC 312, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 318. Advertising Digital Applications.** Principles and techniques of producing advertising for digital media. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 211 and MC 312, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 320. Media News.** Principles and techniques used to compose effective written content for print and electronic news dissemination. Lab/production work required. Prerequisites: Completion of 30 credit hours, including a “C” or higher in MC 101. (3)

**MC 322. Design for Media.** Designing and editing magazines, newspapers and online content, including text, photography, graphics, sound and video. Lab/production work required. Prerequisite(s): Completion of 30 credit hours, including a “C” or higher in MC 221 and MC 320. (3)

**MC 323. Sound for Media.** Principles of news, information and entertainment program production for broadcast, satellite and Internet distribution. Lab/production work required. Prerequisite(s): Completion of 30 credit hours, including a “C” or higher in MC 221 and MC 320. (3)

**MC 327. Visuals for Media.** Introduction to the art of visual storytelling as applied to electronic media reporting and production. Lab/production work required. Prerequisite(s): Completion of 30 credit hours, including a “C” or higher in MC 221 and MC 320 with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 330. Public Relations Principles.** A survey of public relations, its historical development, roles

and functions, career opportunities, global issues, and legal and ethical issues. Prerequisite: Completion of 30 credit hours. (3)

**MC 331. Strategic Writing.** Strategic content, composition and distribution of news releases, feature articles, opinion-editorial pieces, public service announcements, annual reports and pitchbooks. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 101. (3)

**MC 333. Strategic Production.** Strategic graphic design, PowerPoint presentations, video news releases, media kits, online newsrooms, social media management, and arrangements for talk shows. Prerequisite: Completion of 30 credit hours, including a “C” or higher MC 310 or MC 330. (3)

**MC 334. Public Relations Research & Strategy.** Constructing and conducting research studies, identifying public relations problems/opportunities and objectives, and applying research findings to effective communications strategies. Prerequisite: Completion of 30 credit hours, including a “C” or higher MC 301 or MC 330, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 351. Basic TV & Film Production.** The principles of television and film production, including multi-camera production, field techniques and non-linear editing. Lab required. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 101. (3)

**MC 352. Video Postproduction.** The theory and techniques of video postproduction, including motion graphics editing and sound design. Lab required. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 351 or approval of instructor. (3)

**MC 354. Screenwriting.** An introduction to the principles of cinematic storytelling, with emphasis on the creation of motion picture screenplays. Prerequisite: Completion of 30 credit hours, including a “C” or higher in EN 140. (3)

**MC 366. Television Directing.** The theory and practice of directing for television. Emphasis on visualization, pre-production and post-production procedures. Lab required. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 251 and MC 352, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 367. Converging Media Systems.** This course defines media convergence and the impact that the digital realm has on all aspects of telecommunication. Prerequisite: Completion of 30 credit hours, including a “C” or higher in MC 351. (3)

**MC 401. Communication Law.** An investigation of laws applicable to mass communication with heavy



emphasis on First Amendment freedoms and the working of the FCC and other regulatory agencies. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 402. Seminar in Mass Communication.** Studies of emerging media issues. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (1)

**MC 418. Advertising Campaigns.** Application of advertising principles and techniques to prepare and execute an integrated advertising campaign. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, a "C" or higher in MC 301, MC 316 and MC 318; minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 421. Multimedia Storytelling.** Advancement of skills in gathering, writing and producing news for print, broadcast and Internet delivery. Lab/production work required. Prerequisites: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 301, MC 320, MC 322, MC 323 and MC 327 with grades of "C" or higher. (3)

**MC 427. Specialized Reporting.** Techniques of reporting specialties. Content varies. May be repeated for a maximum of 6 credit hours. Lab/production work required. Prerequisites: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 301 and MC 320 with grades of "C" or higher. (3)

**MC 429. Media Management.** Techniques for advancing student skills as managers in the multimedia student news bureau. Lab/production work required. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 421 with a grade of "C" or higher or completion of MC 312 and MC 316 with grades of "C" or higher. (3)

**MC 430. Strategic Communication Topics.** Experiences with specific career fields and skills. Content Varies. May be repeated for a maximum of 9 credits. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (1)

**MC 434. Public Relations Campaigns & Case Studies.** Critical analysis of case studies and campaigns, including media planning and budgeting, to solve public relations problems. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with

a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 331, MC 333 and MC 334 with grades of "C" or higher. (3)

**MC 451. Advanced Film Production.** The theory and practice of film directing, with emphasis on script analysis, working with actors, and film production. Lab required. Prerequisites: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 351 and MC 354 with grades of "C" or higher. (3)

**MC 469. Advanced Video Production.** Application of video techniques while working with professional clients to execute all phases of a corporate television project. Lab required. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; completion of MC 301 and MC 352 with grades of "C" or higher. (3)

**MC 482. Special Problems in Mass Communication.** Seminar designed to provide an in-depth study and research of a specific aspect of mass communication. Content varies. Prerequisite: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses. (3)

**MC 483-85. Independent Study in Mass Communication.** Topical study beyond content of course offerings. For majors only. Prerequisites: Completion of 60 credit hours, including 15 MC-prefix hours, with a minimum 2.50 GPA cumulatively and in MC-prefix courses; grade of "C" or higher in all major courses completed; consent of department chairperson. (1-3)

**MC 486. Internship in Mass Communication.** Practical involvement in an appropriate professional organization. Prerequisites: Completion of 60 credit hours, including 12 option hours; grade of "C" or higher in all major courses completed; 2.50 cumulative GPA; 2.75 Mass Communication major GPA; consent of department chairperson. (3)

**MC 496. Practicum in Mass Communication.** A course devoted to practical media experiences. Prerequisites: Completion of 60 credit hours, including 12 option hours; grade of "C" or higher in all major courses completed; 2.50 GPA cumulatively and in the MC-prefix courses; consent of department chairperson higher. (3)

**See University Studies (UI) listing for description of:**

**UI 382 History and Philosophy of American Mass Media (3)**

**MATHEMATICS (MA)****MA 003. Math Major Field Achievement Test.**

Required of all Mathematics majors (Pure, Applied Mathematics and Statistics, and Secondary Education). Prerequisite: Major in Mathematics; 90 credit hours. (0)

**MA 050. Basic Math Skills.** Review of the basic operations of arithmetic; understanding and performing operations with signed numbers; and an introduction to algebra. Prerequisite: ACT Mathematics score of 14 or below. (3)

**MA101. Beginning Algebra.** Operations and variables, linear equations and inequalities, exponents, polynomials, factoring, rational expressions, linear equations and their graphs. Course grade: CR or F. Prerequisite: ACT Math subscore of 15-20 or MA050 with a grade of 'C' or higher. (3)

**MA102. Intermediate Algebra.** Polynomials, factoring, equations and inequalities in one and two variables, rational expressions, rational exponents, quadratic equations, graphing, and systems of linear equations. Prerequisite: MA101 with a grade of 'CR.'(3)

**MA 118. Mathematics I.** Introduction to problem solving strategies, sets, whole numbers and their operations and properties, number theory, numeration systems, computer usage, and the historical significance and applications of these topics in the K-9 mathematics curriculum. Prerequisite: MA 102 with a grade of 'C' or higher or MA 095 with a grade of 'C' or higher or ACT Math score of 18-20 with required score on appropriate COMPASS placement test, or ACT Math score of 21 or higher. Declared education major in elementary, early childhood, exceptional child, middle school, or secondary mathematics or human environmental studies: child development option major. (University Studies course) (3)

**MA 123. Survey of Mathematics.** A sampling of topics which mixes mathematics history, its mathematicians, and its problems with a variety of real-life applications. Prerequisite: MA 102 with a grade of 'C' or higher or MA 095 with a grade of 'C' or higher or ACT Math score of 18-20 with required score on appropriate COMPASS placement test, or ACT Math score of 21 or higher. (University Studies course) (3)

**MA 133. Plane Trigonometry.** Circular functions, right and oblique triangles, identities and equations, complex numbers. Prerequisites: MA 102 with a grade of 'C' or higher or MA 095 with a grade of 'C' or higher or ACT Math score of 18-20 with required score on appropriate COMPASS placement test, or ACT Math score of 21 or higher. (3)

**MA 134. College Algebra.** Functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and sequences. Prerequisite: MA 102 with a grade of 'C' or higher or MA 095 with a grade of 'C' or higher or ACT Math score of 18-20 with required score on appropriate COMPASS placement test, or ACT Math score of 21 or higher. (University Studies course) (3)

**MA 135. Precalculus.** Integrated course of College Algebra and Plane Trigonometry. Credit may not be received for MA 133 or MA 134 and MA 135. Prerequisite: MA 102 with a grade of 'C' or higher or MA 095 with a grade of 'C' or higher or ACT Math score of 18-20 with required score on appropriate COMPASS placement test, or ACT Math score of 21 or higher. (5)

**MA 138. Discrete Mathematics I.** Applied mathematics course emphasizing fundamental principles of discrete mathematics and applications to computer science. Topics include logic, mathematical induction, sets, relations, functions, algorithms, permutations and combinations, and graph theory. Prerequisite: MA 134 with a grade of 'C' or higher. (3)

**MA 139. Applied Calculus.** For students in business, social or life sciences. Functions, limits, differentiation and integration of elementary functions. Emphasizes applications. Prerequisites: MA 134 with a grade of 'C' or higher. (3)

**MA 140. Analytic Geometry and Calculus I.** Analytic geometry, functions, limits, derivatives and integrals of algebraic, trigonometric, and exponential functions with applications. Prerequisites: MA 133 with a grade of 'C' or higher and MA 134 with a grade of 'C' or higher, or MA 135 with a grade of 'C' or higher. (5)

**MA 144. Integral Calculus and Differential Equations.** Applications and techniques of integration, parametric equations, polar coordinates, techniques of solving ordinary differential equations, applications, numerical methods, and Laplace transforms. Prerequisites: MA 140 with a grade of 'C' or higher. (5)

**MA 145. Analytic Geometry and Calculus II.** Differentiation and integration of transcendental functions, series, conic sections, polar coordinates. Prerequisite: MA 140 with a grade of 'C' or higher. (4)

**MA 155. Statistical Reasoning.** Course will introduce statistical ideas to students. The student will reach an understanding of these statistical ideas, be able to deal critically with statistical arguments, and gain an understanding of the impact of statistical ideas on public policy and in other areas of academic study. Prerequisite: MA 102 with a grade of CR or MA 095 with a grade of 'C' or higher, or ACT Math score of 18-20 with MA 095 placement score of 14 or higher or ACT Math score of 21 or higher. (University Studies course) (3)

**MA 218. Middle School Math.** Selected mathematics topics for teachers of middle school mathematics. Prerequisite: MA 134 with a grade of 'C' or higher and a Secondary and a Middle Education major. (3)

**MA 223. Elementary Probability and Statistics.** Introduction to the basic ideas of statistics: descriptive measures, elementary probability, distributions, estimation, hypothesis testing, correlation, and linear regression. Prerequisite: MA 134 with a grade of 'C' or higher. (3)

**MA 230. Mathematics for the Early Childhood Teacher.** Topics taught in mathematics classes K-3. Emphasizes the logic and development of number concepts, classifications, numeration, attributes and patterns, measurement and geometry of shapes. May be counted only as elective credit except for a degree program in which this course is expressly required. Prerequisite: MA 118 with a grade of 'C' or higher. (2)

**MA 240. Analytic Geometry and Calculus III.** Vectors and solid analytic geometry, partial differentiation, multiple integrals, topics in vector calculus. Prerequisite: MA 145 with a grade of 'C' or higher. (3)

**MA 245. Vector Calculus.** Vectors, vector functions, vector geometry, vector analysis. Prerequisite: MA 240 with a grade of 'C' or higher. (2)

**MA 250. Foundations of Mathematics.** An introduction to understanding and writing proofs using fundamental concepts such as relations, equivalence, partitions, mathematical induction, functions, development of number systems, and infinite sets. Prerequisites: MA 138 with a grade of 'C' or higher; MA 139 or MA 140 with a grade of 'C' or higher. (3)

**MA 318. Mathematics II.** A development of the real number system, its properties and applications, including algebraic logic, graphing, statistics, probability, and measurement. May be counted only as elective credit except for a degree program in which this course is expressly required. Prerequisite: MA 118 with a grade of 'C' or higher. (3)

**MA 338. Discrete Mathematics II.** An applied mathematics course that emphasizes fundamental principles of discrete mathematics and their applications to computer science. Topics include the principle of inclusion and exclusion, generating functions, recurrence relations, graph theory, Boolean algebra, coding theory and combinatorial designs. Prerequisite: MA 138 with a grade of 'C' or higher. (3)

**MA 340. Concepts of Geometry.** Axiomatic geometry, Menelaus' and Ceva's theorems, harmonic elements and cross ratio, Desargues' theorem, and

inversion. Prerequisite: MA 139 or MA 140 with a grade of 'C' or higher. (3)

**MA 345. Linear Algebra.** Systems of linear equations, matrices and Gaussian elimination, vector spaces, eigenvalues and eigenvectors, inner products and orthogonal sets. Prerequisite: MA 139 or MA 140 with a grade of 'C' or higher. (3)

**MA 350. Differential Equations I.** Theory and techniques of solving ordinary differential equations, applications, numerical methods, series solutions, and Laplace transforms. Prerequisite: MA 240 with a grade of 'C' or higher. (3)

**MA 418. Geometry For Teachers.** Euclidean geometry (demonstrative, coordinate, transformational), intuitive relations, constructions, properties of lines, polygons, circles, and 3-dimensional figures. Prerequisite: MA 118 with a grade of 'C' or higher. (3)

**MA 423. Statistical Analysis for Forensic Science.** Introduction to the statistical analysis of genetic data used in forensic science. Basic probability distributions used in analyzing genetic data will be discussed. Emphasis will be placed on estimation and statistical inferential procedures in forensic science. Prerequisite: MA 140 with a grade of 'C' or higher, or consent of instructor. (3)

**MA 425. Applied Regression Analysis.** Using regression to represent a relationship between explanatory variables and their associated response. Emphasis on analyzing actual datasets. Topics to be covered: Simple linear regression, multiple regression, prediction, variable selection, residual diagnostics, auto-regression, and logistic regression. Prerequisite: MA 223. (3)

**MA 440-441. Independent Study.** Study topics in mathematics not covered in other courses. Prerequisite: MA 240 with a grade of 'C' or higher. (1-2)

**MA 443. Elementary Number Theory.** Topics of number theory, including fundamental laws, Diophantine equations, the integers, and the properties of linear and quadratic congruences. Prerequisite: MA 139 or MA 140 with a grade of 'C' or higher. (3)

**MA 445. Modern Algebra.** Introduction to the study of sets, rings, fields, groups, and vector spaces. Prerequisite: MA 250 with a grade of 'C' or higher. (3)

**MA 448. Mathematics Seminar.** Prerequisite: MA 240 with a grade of 'C' or higher. (1)

**MA 461-463. Special Topics in Mathematics.** Lectures, discussions, and/or assigned readings on various topics in mathematics. The topic will vary with each offering. (1-3)

**MA 464. Mathematical Cryptography.** Course will cover basic concepts of secure communication, classical

cryptography and cryptoanalysis, monoalphabetic and polyalphabetic ciphers, Shannon's theory of secrecy, modern private-key cryptosystems such as DES and AES, and public-key cryptosystems such as RSA. Prerequisites: MA 223 or MA 250 or MA 338 or MA 345 or MA 443 with a grade of 'C' or higher. (3)

**MA 486-488. Internship in Mathematics.** A supervised learning and work experience in mathematics which enhances the student's understanding of, appreciation for, and the application of mathematics. Prerequisites: 45 hours completed; GPA above 3.0; 16 hours above MA 134; consent of instructor. (1-3)

**MA 523. Probability and Statistics I.** Introduction to probability and statistics using the tools of calculus. Algebra of probability, random variables, discrete and continuous distributions. Prerequisite or Co-requisite: MA 240. (3)

**MA 524. Probability and Statistics II.** Continuation of MA 523 with emphasis on applications sampling, estimation, hypothesis testing, regression, experimental design, nonparametric methods. Prerequisite: MA 523.(3)

**MA532. Foundations of Geometry.** Historical development of the axiomatic approach to Euclidean geometry and non-Euclidean geometries, coordinate systems for affine and projective planes, and metric postulates for Euclidean, hyperbolic, and elliptic planes. Prerequisite: MA250 with a grade of 'C' or higher. (3)

**MA538. History of Mathematics.** A historical account of mathematics from the time of Newton and Leibniz to its twentieth century developments. Prerequisite: MA139 or MA140 with a grade of 'C' or higher. (3)

**MA 540. Projective Geometry.** Non-Euclidean geometry, study of projective geometry and its relation to other geometries. Prerequisite: MA 340 or 10 hours of mathematics courses numbered above MA 140. (3)

**MA 545. Linear Algebra and Matrices.** Introduction to vector spaces, linear transformations, matrices, eigenvalues, eigenvectors, and numerical methods in linear algebra. Prerequisite: MA 445. (3)

**MA 546. Advanced Calculus I.** Elementary set theory and topology, sequences and series, continuity and differentiability of functions on Euclidean space. Prerequisites: MA 240; MA 250. (3)

**MA 547. Advanced Calculus II.** Convergence of series of functions, Implicit Function Theorem, integration. Prerequisite: MA 546. (3)

**MA548. Enumerative Combinatorics.** A study of basic enumeration techniques, recurrence relations, generating functions, the inclusion-exclusion principle, Ramsey theory, partially-ordered sets, and combinatorial designs. Prerequisite: MA145 and MA250. (3)

**MA549. Graph Theory.** Basic parameters and properties of graphs, representations, trees, connectedness, Eulerian and Hamiltonian cycles and paths, matchings, edge and vertex colorings, independent sets and cliques, planar graphs, directed graphs, multigraphs. Prerequisite: MA145 and MA250. (3)

**MA 550. Differential Equations II.** Theory and techniques of solving ordinary differential equations, partial differential equations, boundary value problems, applications, numerical methods, and stability. Prerequisite: MA 350. (3)

**MA 560. Research Methods in Mathematics.** An overview of research methods. Practice in the methods for the formulation and solution of problems. Prerequisite: MA 240 or MA 445. (3)

**MA 580. Experimental Design and Analysis of Variance.** Completely randomized design and analysis, randomized block design and analysis, factorial experiments, split-plot design and analysis, repeated measurement experiments and analysis, analysis of covariance. Prerequisites: MA 223 or consent of instructor. (3)

**See University Studies (UI) listings for description of:**

**UI 438. The Nature and Growth of Mathematical Thought.** (3)

## **MEDICAL TECHNOLOGY (MT)**

**MT 200. Introduction to Medical Technology.** A fourth semester on campus course for medical technology majors to acquaint students with the profession and clinical year program of study. Prerequisite: BS 103 or BS 108; CH 187; or consent of Med Tech. advisor. (1)

**The following courses comprise the fourth year of the cooperative Medical Technology Program and must be taken in an NAACLS accredited program. There may be slight variations in credit hours granted, course titles and course content depending on the specific clinical program.**

**MT 300. Clinical Chemistry.** Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents and their determination using manual and instrumental techniques. (8-10)

**MT 301. Clinical Microscopy.** Principles and techniques of physical, chemical and microscopic examination of urine and other excreta as related to disease processes. (1-2)

**MT 302. Hematology and Coagulation.** Study of cellular elements of blood and bone marrow as related to disease. Principles and techniques in homeostasis, blood coagulation and hemorrhage disorders. (6-8)

**MT 303. Serology Immunology.** Science of immunity including antibody development, principles of antigenantibody interactions and techniques of serological testing for various disease states. (2-4)

**MT 304. Clinical Microbiology.** Techniques of handling, isolating and identifying pathogenic microorganisms; laboratory tests in chemotherapy and diagnostic bacteriology, mycology and parasitology. (7-9)

**MT 305. Blood Bank-Immunohematology.** Study of blood group systems and the immune response. Proper clinical utilization of blood components. (3-4)

**MT 306. Special Topics in Medical Technology.** Study in the areas of in-service education, management and supervision, research and development as related to the clinical laboratory. (1-4)

## **MUSIC (ME, MH, MM, MP, MU)**

**ME 001. Senior Recital.** A juried public recital of one-half hour in length, to be presented in final semester of study. Music Education majors only. Prerequisite: 400 level applied music and instructor approval. (0)

**ME 222. Principles of Teaching Music.** An introductory course for prospective music teachers focusing on the role of music in the schools. Co-requisite: PY 222. (2 hours, with coordinated field experience)

**ME 250. Trumpet and Horn Techniques.** Methods, materials, and techniques for teaching the high brass instruments. Pre- or corequisite: Music major or instructor consent. (1)

**ME 251. Trombone, Euphonium, and Tuba Techniques.** Methods, materials, and techniques for teaching the low brass instruments. Pre- or corequisite: Music major or instructor consent. (1)

**ME 252. Flute and Double Reed Techniques.** Techniques, theory and pedagogy of the flute, oboe and bassoon, including embouchure formation, fingering, reed adjustment, and materials. Two sessions. Pre- or corequisite: Music major or instructor consent. (1)

**ME 253. Single Reed Methods.** Techniques and pedagogy of the clarinet and saxophone, including embouchure, fingering, reed selection and adjustment, and materials. Two sessions. (1)

**ME 260. String Techniques.** Basic finger patterns and bowing techniques for the violin, viola, cello, and bass. Materials for teaching. Three sessions. Pre- or corequisite: Music major or instructor consent. (2)

**ME 261. Percussion Techniques.** Methods and materials for teaching percussion instruments. (2)

**NOTE: ME 270 through ME 473 are open to Music Education Majors only who have passed all**

**parts of the Sophomore Review and who have been admitted to the Teacher Education Program.**

**ME 270. Music Education Block II: Field Experience.** Integration of appropriately designed field experience corresponding with achievement of the minimum competency standards specified in Secondary Block II coursework. Prerequisite: Music Education Block I. Co-requisites: ME 271; ME 272; ME 371. (3)

**ME 271. Theories of Learning and Management.** Classroom instruction in learning theory and behavior management coordinated with instruction of a student in an integrated field experience. Prerequisites: Music Education Block I; full admission to the teacher education program. Co-requisites: EF 304; ME 270; ME 272; ME 371. (2)

**ME 272. Techniques of Teaching Reading Music.** Examination of the role of content teachers in improving reading skills. Analyzes problems of reading music and notation symbols for elementary and secondary students. Prerequisite: Music Education Block I. Co-requisites: ME 270; ME 271; ME 371. (2)

**ME 369. Elementary Music Methods.** Methods and materials for teaching general music classes in elementary schools. Prerequisites: Music Education Block I; full admission to the teacher education program. Co-requisites: EF 304; ME 270; ME 271; ME 272; ME 371. (3)

**ME 370. Music Education Block III: Field Experience.** Application of knowledge of professional education, academic specialization, and exceptional children, to appropriate classroom settings. Prerequisites: Music Education Blocks I and II and pass sophomore review. Co-requisites: ME 372 or ME 373; EX 390. (1)

**ME 371. Techniques of Teaching General Music: Elementary and Secondary.** Methods and materials for teaching elementary and secondary general music classes. Prerequisite: Music Education Block II. Co-requisites: ME 270; ME 271; ME 272. (4)

**ME 372. Instrumental Techniques: Elementary and Secondary.** Preparation of prospective teachers to structure, organize, manage and instruct an instrumental music program. Prerequisites: Music Education Block II; full admission to the teacher education program. Co-requisites: EX 390; ME 370; MU 344. (3)

**ME 373. Choral Techniques: Elementary and Secondary.** Total program development: auditions, seating, adolescent voices, organization, management, literature selection, rehearsal techniques, style interpretation, concert programming and preparation. Prerequisite: Prerequisite: Music Education Block II; full admission to the teacher education program. Co-requisites: EX 390; ME 370. (3)

**ME 400. Marching Band Techniques.** History and function of marching band programs as well as practical experience in organization, show development, music selection, music arranging, drill design, and pedagogical techniques of administering a marching band. Prerequisite: Two semesters of MU 386; Corequisite: MU 386. (1)

**ME 443. Choral Literature.** A study of choral literature and performance practices of the major style periods. Repertoire will be selected from all musical style periods and choral genres. Prerequisites: MU 341; MU 343; ME 373; or consent of instructor. (2)

**ME 450. Synthesis of Music Education Methods.** Focused readings and class activities which challenge students to relate specific course material to overall preparation as music educators. Prerequisite: Music Education Block III. (2)

**ME 451-453. Topics in Music Education.** Focus on a specific area of interest in music education: elementary or secondary; general, choral or instrumental. Prerequisite: Junior standing. Offered on demand. (1-3)

**ME 473. Techniques of Teaching Choral Literacy.** Materials and methods for teaching choral literacy. Tonal and rhythmic vocabularies, analysis of sight-singing literature, review of available materials and group instructional techniques. Prerequisites: Music Education Block III; MU 343. (2)

**MH 251. Music History and Literature to 1800.** Examination of and aural exposure to musical literature in art music of Western and non-western cultures in the context of coherent style periods. Emphasis on the interrelation of history and culture as influencing musical literature to 1800. Prerequisites: Ability to read music; MU 182 or UI 100 theme of Music Makers; consent of instructor. (3)

**MH 252. The Evolution of Musical Style Since 1827.** An analytical examination of representative musical works since 1827 with emphasis on understanding the manipulation of musical symbols and its effects. Prerequisite: Ability to read music. (University Studies course) (3)

**MM 001. Entry level proficiency examination in aural skills.** For all music majors. (0)

**MM 002. Exit level proficiency examination in aural skills.** For all music majors. Prerequisites: MM 204; MM 208. (0)

**MM 101. Theories of Music in Culture.** Fundamentals of music in resources and practices of Western and Nonwestern cultures. Prerequisite: Ability to read music. Co-requisite: MM 105. (University Studies course) (3)

**MM 102. Basic Harmony and Form.** Fundamentals of harmony and form as practiced in Western music of the 18th and 19th centuries. Prerequisite: MM 101. Co-requisite: MM 106. (3)

**MM 105. Aural Skills I.** Acquisition of skills to recognize and perform elementary rhythmic and melodic patterns; emphasis on triad and seventh chord identification. Prerequisite: Ability to read music. Co-requisite: MM 101. (1)

**MM 106. Aural Skills II.** Continued emphasis on rhythmic, melodic, sight singing and harmonic dictation. Identification of common cadential progressions. Prerequisites: MM 101 and MM 105. Co-requisite: MM 102. (1)

**MM 107. (Cross-listed as TH 107). Theory Skills and Analysis for Music Theatre.** Development of analytical skills in music theatre repertoire. Two lectures; one lab. Prerequisites: MM 101; MM105. (3)

**MM 203. Advanced Harmony, Form and Counterpoint.** Advanced aspects of harmony and form in Western music of the 18th and 19th centuries with an introduction to 18th century counterpoint. Prerequisite: MM 102. Co-requisite: MM 207. (3)

**MM 204. Twentieth Century Techniques.** Advanced aspects of harmony, form and counterpoint in Western music of the late 19th and 20th centuries. Prerequisite: MM 203. Co-requisite: MM 208. (3)

**MM 207. Aural Skills III.** Identification of progressions involving modulation and transposition; sight singing involving modulation. Prerequisites: MM 102; MM 106. Co-requisite: MM 203. (1)

**MM 208. Aural Skills IV.** Atonal sight singing. Basic improvisational techniques; rhythm reading with shifting meters; advanced score reading. Prerequisites: MM 203; MM 207. Co-requisite: MM 204. (1)

**MP 100-599. Private Music Lessons.** Private music lessons are available in the following areas:

Voice	Flute	Trombone
Piano	Clarinet	Euphonium
Organ	Saxophone	Tuba
Violin	Oboe	Percussion
Viola	Bassoon	Guitar
Cello	Trumpet	Composition
String Bass	Horn	Harpsichord

Details are available in the Music Department or the Registrar's Office. Prerequisite: Consent of department. (1-3)

**MU 001. Piano Proficiency.** Exit level proficiency examination. Requirement for all music majors. Prerequisite: MU 254 or equivalent experience. (0)

**MU 002. Sophomore Review.** Mid-point level proficiency examination in music. For all music majors. Prerequisite: Consent of department. (0)

**MU 110. Recitals and Concerts.** Attendance at musical performances. (Music majors and minors only) (0)

**MU 121. (Cross-listed as TH 122). Class Voice for Music Theatre.** Principles of singing and vocal technique. (2)

**MU 123. Singers Diction I.** Introduction to the International Phonetic Alphabet; development of correct English and Italian pronunciation for singing. (1)

**MU 124. Singers Diction II.** Development of correct German and French pronunciation for singing. (1)

**MU 151. Functional Piano I.** To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: Audition. (Music majors and minors only) (1)

**MU 152. Functional Piano II.** To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 151 or audition. (Music majors and minors only) (1)

**MU 181. Musical Encounters.** A course in music appreciation which develops informed judgment about music through exposure to live performance. (University Studies course) (3)

**MU 182. Music: An Artistic Expression.** An examination of music as artistic expression and an analysis of the role music has played in the human experience. (University Studies course) (3)

**MU 190. Jazz Appreciation.** An investigation of the development of jazz in order to develop an aesthetic awareness of this art form and its role in American Culture. (University Studies course) (3)

**MU 220. Class Voice.** Principles of singing vocal literature. Applied in a group setting. Prerequisites: MM 101; MU 151; consent of instructor. (2)

**MU 245. (Cross-listed as AR/DA/TH 245). Creating and Managing a Career in the Arts.** Introduction to business skills and management practices for success in the visual and performing arts. (3)

**MU 253. Functional Piano III.** To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 152 or audition. (Music majors and minors only.) (1)

**MU 254. Functional Piano IV.** To develop basic piano skills which enable musicians to function in classroom, studio and rehearsal settings. Prerequisite: MU 253 or audition. (Music majors and minors only.) (1)

**MU 275. Percussion Ensemble.** Performance ensemble open to all university studies by audition.

Prerequisites: Consent of instructor; must be able to read music and have a percussion background or keyboard technique. (1)

**MU 282. Steel Drum Band.** Performance ensemble open to all University students, faculty and staff by audition. (1)

**MU 288. Arts for Teachers of Young Children.** Enables the student to integrate movement, music, drama, and visual art with each other as well as with different subjects in the preschool/daycare setting. (3)

**MU 299. Chamber Music and Accompanying.** Study and performance of chamber music in small ensembles or keyboard accompanying. Prerequisite: Consent of instructor. (1)

**MU 300. Junior Recital.** Public half-hour recital of music representing different styles and techniques. Required of all B.M./Performance students. Prerequisite: MP 300 level; consent of instructor. (May not be elected by students on B.A. or B.M.E. degree programs.) (1)

**MU 326. Topics in Performance Health.** Seminar devoted to research, discussion, and examination of physical, mental and performance strategies for achieving and maintaining optimum health while pursuing a career in music. Prerequisite: sophomore standing; music major or minor; or consent of instructor. (1)

**MU 338. Lute and Guitar Tablatures.** Introduction of the various Renaissance and Baroque lute and guitar tablatures in manuscript and print sources. Prerequisites: Junior or senior status; two semesters of private classical guitar lessons; or consent of instructor. (2)

**MU 341. Conducting.** Baton technique for development of basic, physical conducting skills. Lab setting with students conducting in class. Prerequisites: MM 204; MM 208; MU 253. (2)

**MU 343. Choral Conducting and Literature.** Supervised lab experience in developing conducting techniques, mastering basic conducting skills, rehearsal planning, rehearsal techniques, and study of choral literature. Prerequisite: MU 341; consent of instructor. (2)

**MU 344. Instrumental Conducting and Literature.** Supervised lab experience, developing conducting techniques for mastery of basic conducting skills. Development of rehearsal techniques and a significant study of instrumental literature. Prerequisite: MU 341. (2)

**MU 356. Music Skills for Classroom Teachers.** Provides the non-music major with basic skills of musical performance and notation to enable them to lead elementary students in classroom music activities. Two sessions. (1)

**MU 384. Guitar Ensemble.** Performance-oriented class in which students rehearse and perform chamber music for classical guitar from all style periods. By audition. (1)

**MU 386. Marching Band.** Open to all university students. Audition required. Prerequisite: Ability to read music. (1)

**MU 387. Jazz Band.** A select jazz ensemble open to all University students. Audition required. Prerequisite: Ability to read music. (1)

**MU 389. Choral Union.** An open-enrollment mixed choir for all university students, faculty, and staff. Specializes in performances of major choral works with orchestra. No audition required. (1)

**MU 390. Southeast Wind Symphony.** A select ensemble open to all university students. Audition required. Prerequisite: Ability to read music. (1)

**MU 391. Concert Band.** Open to all university students. No audition required. Prerequisite: Ability to read music. (1)

**MU 392. Orchestra.** Open to all university students. Audition required. Prerequisite: Ability to read music. (1)

**MU 394. University Choir.** A select, fifty-voice mixed choir, open to all university students, which performs a variety of literature from all style periods. Audition required. Prerequisite: Ability to read music. (1)

**MU 397. Chamber Choir.** To study, rehearse and perform choral works most appropriately sung by small ensemble. Specific attention will be given to, but not limited to, the music of the Renaissance and Baroque periods. (1)

**MU 398. Opera Theatre Workshop.** Practical experience in various phases of opera production and participation in the musical preparation of appropriate operatic roles. Open to all University students. Prerequisite: Consent of instructor. (1)

**MU 400. Senior Recital.** Public one-hour recital representing different periods or program of compositions (Composition majors). Required of all B.M. degree students. Prerequisite: MP 400 level; consent of department. Required of Bachelor of Music degree students. May not be elected by students on the B.A. or B.M.E. degree programs. Prerequisite: MP 4xx applied music level; consent of department. (2)

**MU 424. Vocal Pedagogy.** Processes involved in voice production; respiration, phonation, articulation, and resonance. Physiological, psychological, acoustical problems in teaching singing. Prerequisite MP 3xx applied music level; or consent of instructor. (2)

**MU 430. Pedagogy: Applied Area.** A study of the physiological, psychological, and acoustical problems and process in teaching applied music. Prerequisite: 300 level standing in applied music. (2)

**MU 432. Literature: Applied Area.** The study of the solo literature in a student's major area of emphasis through performance, guided listening, and analysis. Prerequisite: 300 level standing in applied music. (2)

**MU 490-492. Independent Study.** (1-3)

**MU 499. Accompanying.** Study and performance of chamber music and accompanying involving keyboard instruments. Prerequisites: MU 299, Junior standing. (1)

**See University Studies (UI) listings for descriptions of:**

**UI 310. The American Musical Experience.** (3)

**UI 315. Electronics and Computers in Music.** (3)

**UI 392. The Age of Romanticism** (3)

**UI 393. The Age of Modernism.** (3)

**UI 394. Music and Culture: 1600-1750.** (3)

**UI 396. The Age of Beethoven.** (3)

**UI 397. Music in Medieval and Renaissance Culture.** (3)

**UI 402. Music in World Cultures.** (3)

**NOTE: Students may receive one hour of credit per semester for participation in band, orchestra, small ensemble, or choir, up to a maximum of three hours applicable toward a degree, if students are not music majors or minors or pursuing music as an area of specialization.**

## NURSING (NC, NS)

**NOTE:** When a student is enrolled in NC and NS courses with the same course number, both courses must be successfully completed in order for the student to continue in the baccalaureate program.

**NC 371. Fundamentals Clinical.** Clinical and laboratory component of NS 371 Fundamentals of Nursing. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Corequisites: NC 372; NS 371; NS 372; NS 373; NS 374. (3)

**NC 372. Assessment Clinical.** Clinical and laboratory component of NS 372 Nursing Assessment. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Corequisites: NC 371; NS 371; NS 372; NS 373; NS 374. (1)

**NC 387. Adult Health I Clinical.** Clinical component of NS 387 Adult Health I. Prerequisites: Second semester junior standing within the nursing major or consent of



instructor; NC 371; NC 373; NS 371; NS 372; NS 373; NS 374. Co-requisites: NC 388; NC 389; NS 381; NS 387; NS 388; NS 389. (2)

**NC 388. Maternal-Newborn Clinical.** Clinical component of NS 388 Maternal-Newborn Nursing. Prerequisites: Second semester junior standing within the nursing major or consent of instructor; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Corequisites: NC 387; NC 389; NS 381; NS 387; NS 388; NS 389. (1)

**NC 389. Mental Health Clinical.** Clinical component of NS 389 Mental Health Nursing. Prerequisites: Second semester junior standing within the nursing major or consent of instructor; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Corequisites: NC 387; NC 388; NS 381; NS 387; NS 388; NS 389. (1)

**NC 487. Adult Health II Clinical.** Clinical component of NS 487 Adult Health II. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS courses. Corequisites: NC 488; NC 489; NS 487; NS 488; NS 489. (2)

**NC 488. Pediatric Clinical.** Clinical component of NS 488 Pediatric Nursing. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS courses. Corequisites: NC 487; NC 489; NS 487; NS 488; NS 489. (1)

**NC 489. Nursing of Elderly Clinical.** Clinical component of NS 489 Nursing of the Elderly. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS courses. Corequisites: NC 487; NC 488; NS 487; NS 488; NS 489. (1)

**NC 491. Transitions Clinical.** Clinical component of NS 491 Transitions in Nursing. Prerequisites: Second semester senior standing in the BSN program; All 300-level NC and NS courses; NC 487; NC 488; NS 489; NS 487; NS 488; NS 489. Corequisites: NC 492; NC 498; NS 491; NS 492; NS 498; NS 499. (2)

**NC 492. Community Health Clinical.** Clinical component of NS492 Community Health Nursing. Prerequisites: Second semester senior standing in the BSN program; All 300-level NC and NS courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 498; NS 491; NS 492; NS 498; NS 499. (2)

**NC 498. Nursing Practicum Clinical.** Clinical component of NS498 Nursing Practicum. Concentrated practice in collaboration with assigned preceptor, utilizing a variety of health care settings. Prerequisites: Second semester senior standing in the BSN program; All 300-level NC and NS courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 492; NS 491; NS 492; NS 498; NS 499. (3)

**NS 371. Fundamentals of Nursing.** Fundamental skills, concepts, and theories necessary for application and critical thinking in the nursing skills laboratory and clinical setting. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Corequisites: NC 371; NC 372; NS 372; NS 373; NS 374. (3)

**NS 372. Nursing Assessment.** Identification of factors influencing functioning in everyday living, application of basic physical, cultural, and spiritual assessment principles and techniques. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Corequisites: NC 371; NC 372; NS 371; NS 373; NS 374. (2)

**NS 373. Pharmacology.** Overview of drug categories and actions as applied to clients of all ages, with an emphasis on nursing care. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Co-requisites: NC 371; NC 372; NS 371; NS 372; NS 374. (3)

**NS 374 Pathophysiology.** Effect of pathology on normal body processes. Includes genetic and environmental risk factors, manifestations, and treatment modalities. Prerequisites: Satisfactory completion of pre-nursing requirements and formal admission into the BSN program. Corequisites: NC 371; NC 372; NS 371; NS 372; NS 373. (3)

**NS 380. Holistic Assessment.** Holistic approach to assessment. Emphasizes the roles of nurse diagnostician, collaborator, communicator, teacher. Focuses on assessment of all body systems, including psychological, spiritual, cultural status. For RN-BSN students or permission of instructor. (4)

**NS 381. Nursing Research.** Basic concepts of research process. Emphasizes the roles of nurses in research and the importance of evidence-based nursing practice. Prerequisites: Second semester junior standing within the nursing major or consent of instructor; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Corequisites: NC 387; NC 388; NC 389; NS 387; NS 388; NS 389. (2)

**NS 385. Research in Professional Practice.** Basic concepts of research process. Emphasizes role of nurse as consumer of research. Prerequisites: NS 383; RN-BSN students only. (2)

**NS 386. Professional Practice: Community Health Nursing.** Introduction, application of community health concepts related to rural populations. Emphasizes independent decision making based on assessment of individuals, families and communities. Prerequisites: NS 383; RN-BSN students only. (6)

**NS 387. Adult Health I.** Application of knowledgeable caring, evidence-based practice guidelines to introductory practice in medical-surgical nursing roles when caring for adults. Prerequisites: Second semester junior standing within the nursing major; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Corequisites: NC 387; NC 388; NC 389; NS 381; NS 388; NS 389. (3)

**NS 388. Maternal-Newborn Nursing.** Application of knowledgeable caring for childbearing families in interdisciplinary settings, including normal pregnancy, birth, common complications during pregnancy, after birth. Prerequisites: Second semester junior standing within the nursing major; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Corequisites: NC 387; NC 388; NC 389; NS 381; NS 387; NS 389. (3)

**NS 389. Mental Health Nursing.** Application of knowledgeable caring for clients experiencing emotional/spiritual problems. Promoting management of psychiatric symptoms, physical, emotional, and spiritual health. Prerequisites: Second semester junior standing within the nursing major; NC 371; NC 372; NS 371; NS 372; NS 373; NS 374. Co-requisites: NC 387; NC 388; NC 389; NS 381; NS 387; NS 388. (3)

**NS 390. Framework for Professional Nursing.** Focus on goals of baccalaureate education in preparing the nurse for professional nursing practice. Emphasizes professional nursing roles and role change. For RN-BSN students only. (4)

**NS 480. Professional Practice.** Nursing Leadership Management. Introduction and application of leadership/management concepts in leading others and managing resources to improve nursing practices. Prerequisite: RN-BSN students only. (6)

**NS 483. Gerontological Nursing and Care of Older Adults.** Introduction to gerontological nursing concepts, aging theories, practice standards, cultural influences and public policy emphasizing evidence based practices. Prerequisite: RN-BSN students only. (3)

**NS 487. Adult Health II.** Application of knowledgeable caring for adults with acute or chronic illness based on evidenced-based practice. Introduces holistic care management. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS prefix courses. Co-requisites: NC 487; NC 488; NC 489; NS 488; NS 489. (3)

**NS 488. Pediatric Nursing.** Application of knowledgeable caring for children and their families. Standards of practice applied in interdisciplinary

professional practice settings. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS prefix courses. Co-requisites: NC 487; NC 488; NC 489; NS 487; NS 489. (3)

**NS 489. Nursing of the Elderly.** Care management of the elderly in interdisciplinary settings, focusing on reducing adverse events, maximizing quality of life among frail elderly. Prerequisites: First semester senior standing in the BSN program; must have completed all 300-level NC and NS prefix courses. Co-requisites: NC 487; NC 488; NC 489; NS 487; NS 488. (3)

**NS 491. Transitions in Nursing.** Application of knowledgeable caring in roles of manager/leader, collaborator, care provider, member of the profession, transitioning into practice, licensure. Prerequisites: Second semester senior standing in the BSN program. All 300-level NC and NS prefix courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 492; NC 498; NS 492; NS 498; NS 499. (3)

**NS 492. Community Health Nursing.** Introduction and application of community health concepts, emphasizing health promotion/disease prevention and focusing on the community as a client. Prerequisites: Second semester senior standing in the BSN program; all 300-level NC and NS prefix courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 492; NC 498; NS 491; NS 498; NS 499. (3)

**NS 498. Nursing Practicum.** Internship for senior nursing students. Concentrated clinical practice in collaboration with assigned preceptor, utilizing a variety of health care settings. Prerequisites: Second semester senior standing in the BSN program; all 300-level NS prefix courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 492; NC 498; NS 491; NS 492; NS 499. (1)

**NS 499. NCLEX Prep.** NCLEX review sessions, one exam, with scheduled retesting options; students must demonstrate potential for success on NCLEX-RN. Prerequisites: Second semester senior standing in the BSN program; all 300-level NC and NS prefix courses; NC 487; NC 488; NC 489; NS 487; NS 488; NS 489. Corequisites: NC 491; NC 492; NC 498; NS 491; NS 492; NS 498. Credit/no credit. (2)

## **PHILOSOPHY (PL)**

**PL 110 Readings in Philosophy.** An exploration of the main issues in philosophy through philosophical and literary readings. (University Studies course) (3)

**PL 115. Philosophical Writing.** A writing study of philosophy emphasizing the clarification, development, criticism, and defense of philosophical ideas. (University Studies course limited to students admitted to the University Honors Program) (3)

**PL 120. Symbolic Logic I.** A formal study of argument and inference, emphasizing the application of symbolic techniques to ordinary language. (University Studies course) (3)

**PL 203. Aesthetics and the Arts.** An introduction to the concepts, theories, literature, criticism and modes of perception appropriate to understanding the arts, developing aesthetic attitudes and making reasoned evaluative judgments. (University Studies course) (3)

**PL 204. Ethical Theory.** A normative study of human behavior including an examination of ethical theories and theories of moral development. (University Studies course) (3)

**PL 224. Philosophy of Women.** Historical survey of philosophical views on women, including the analysis of controversial issues arising from the women's movement. (3)

**PL 245. Social Philosophy.** A study of basic concepts and issues in social philosophy. (University Studies course) (3)

**PL 300. Ancient Philosophy.** A study of the main philosophical movements, texts and thinkers from ancient Greece through the Roman, Islamic and Medieval periods. (3)

**PL 310. Modern Philosophy.** A study of the main philosophical movements, texts and thinkers from the rise of science in the seventeenth century through the development of rationalism, empiricism, Kantianism, and the great social and political philosophies of the eighteenth and nineteenth centuries. (3)

**PL 330. Symbolic Logic II.** The analysis of formal symbolic systems through contemporary logical theory and techniques of deductive proof. (3)

**PL 340. Philosophy of Religion.** A philosophical analysis of issues basic to understanding religion, including the problem of evil, free will and divine foreknowledge, arguments for the existence of God, relation of faith and reason, and arguments for personal immortality. (3)

**PL 390-399. Contemporary Philosophy: Variable Topics.** A detailed study of one aspect of contemporary philosophy such as: analytic philosophy, philosophy of mind, epistemology. (3)

**PL 400-409. Seminar: Topics of Philosophy.** An analysis of specific philosophical issues, such as time, free will, the problem of universals, the nature

of matter. (May be repeated for credit when different topics are offered). (3)

**PL 450-452. Seminar: Methods and Movements in Philosophy.** An examination of philosophic traditions, such as phenomenology, linguistic analysis, modern philosophical humanism. (May be repeated for credit when different traditions are offered). (3)

**PL 453. Philosophy of Technology.** (3)

**PL 481. Practicum.** Senior level practicum stressing the application of philosophical principles in undergraduate research, classroom teaching, internship, community service or other approved experiential contexts. (1)

**PL 497-499. Independent Study in Philosophy or Religion.** Directed individual study of special interest areas in philosophy or religion. Prerequisite: Consent of instructor. (1-3)

**See University Studies (UI) listings for descriptions of:**

**UI 305. Judicial Reasoning.** (3)

**UI 336. Religion in America.** (3)

**UI 352. Medical Ethics.** (3)

**UI 368. Mind, Meaning, and Value.** (3)

**UI 369. Vice and Virtue.** (3)

**UI 370. Media Ethics.** (3)

**UI 400. Business and Ethics.** (3)

**UI 415. Science and Religion.** (3)

**UI 422. Scientific Reasoning.** (3)

**UI 429. Environmental Ethics.** (3)

## **PHYSICAL ACTIVITY (AT)**

### **AQUATICS:**

**AT 101. Aqua-Aerobics.** An introduction to basic body movements and aquatic conditioning exercises designed to contribute to a lifetime of cardiorespiratory fitness. (1)

**AT 102. Lifeguard Training.** Preparation for, and opportunity to obtain, the American Red Cross Lifeguard Training Certificate. Prerequisite: Equivalent of intermediate swimming skills. (1)

**AT 103. Swimming.** An individualized course that allows development and improvement of swimming skills from non-swimmer to advanced levels. (1)

**AT 110. Water Safety Instructor.** Preparation for, and opportunity to obtain, the American Red Cross Water Safety Instructor's New Material Certificate. Prerequisite: Current (within 3 years) American Red Cross Lifeguard Certificate or Emergency Water Safety Certificate. (1)

**FITNESS:**

**AT 112. Tai Chi.** Instruction and practice in the basics of Tai Chi, combining body postures and mental imagery to enhance relaxation and health. (1)

**AT 125. Aerobic Kickboxing.** Introduction to the fundamentals of kickboxing. Designed to increase aerobic fitness, muscular strength, endurance and flexibility. (1)

**AT 130. Aerobics.** An introduction to the fundamentals of aerobics; special emphasis will be placed on aerobics as a lifetime physical fitness activity. (1)

**AT 132. Body Building.** Fundamentals of body building. Students attempt to develop muscular size while maintaining a symmetry of muscular definition. (1)

**AT 136. Jogging/Walking for Fitness.** Development of jogging and walking skills for lifetime fitness. (1)

**AT 138. Low Impact Aerobics.** An introduction to the fundamentals of low-impact aerobics. This course involves aerobic activity keeping one foot on the floor at all times (no jogging or jumping activities). Special emphasis will be placed on the use of low-impact aerobics as a lifetime physical fitness activity. (1)

**AT 142. Weight Training I.** Fundamentals of weight training. (1)

**AT 148. Yoga.** Instruction and practice in the basics of Hatha Yoga: beginning breathing patterns, relaxation techniques, physical postures, and concentration exercises. (1)

**AT 149. Pilates.** Instruction and practice of Pilates: breathing patterns, principles, concepts and concentration exercises involving Pilates movements. (1)

**LIFETIME ACTIVITIES (INDIVIDUAL/DUAL):**

**AT 153. Angling, Archery, and Firearms.** Instruction and practice of angling technique, archery target shooting, and air rifle target shooting. (1)

**AT 156. Badminton.** Techniques, rules and strategy. (1)

**AT 164. Golf I.** Fundamentals of golf; attention to form, strokes, rules, etiquette. (1)

**AT 172. Orienteering.** Fundamental skills of map and compass reading and the development of strength and stamina through application of these skills. (1)

**AT 174. Rock Climbing and Rappelling.** Development of individual and group skills in solving physical situations and skill problems through role playing and initiative games. Involves both indoor team problem solving and outdoor work on the obstacle course. (1)

**AT 176. Tennis I.** Fundamental skills, rules and tactics. (1)

**AT 179. Racquetball.** Fundamental skills, rules and tactics. (1)

**LIFETIME ACTIVITIES (TEAM):**

**AT 184. Softball.** Fundamental skills, rules and strategy. (1)

**AT 186. Volleyball I.** Fundamental skills, rules and strategy. (1)

**AT 188. Basketball.** Fundamental skills, rules and strategy. (1)

**MARTIAL ARTS/SELF DEFENSE:**

**AT 192. Judo I.** Fundamental skills, rules and tactics. (1)

**AT 193. Judo II.** Advanced skills and tactics. Prerequisite: AT 192 or equivalent. (1)

**AT 196. Self Defense.** Fundamentals of self defense. (1)

**AT 198. Tae Kwon Do.** Fundamental techniques of Tae Kwon Do for students of varying skill and experience. (1)

**VARSITY SPORTS:**

**AT 200. Varsity Sports.** Conditioning, theory, and skill development in an intercollegiate varsity sport. Credit/no credit. Prerequisite: Member of varsity sport team. (1)

**AT 201. Varsity Sports.** Conditioning, theory, and skill development in an intercollegiate varsity sport. Credit/no credit. Prerequisite: AT 200. (1)

**PHYSICAL EDUCATION (PE)**

**PE 116. (Cross-listed as HL, RC, SM 116). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**PE 201. Sport and Society.** The study of the interrelationships between society, culture, values, and sport, and the ways in which they influence one another. (University Studies Course) (3)

**PE 216. Theory and Practice of Team Sports.** Theory, skill development and teaching techniques of basketball, flag football, fleetball, soccer, softball, team handball, and volleyball. (2)

**PE 217. Theory and Practice of Individual/Dual and Leisure Activities.** Theory, skill development and teaching techniques of angling, archery, badminton, bowling, firearms, golf, obstacle course, orienteering, racquetball, tennis, and track/field. (4)

**PE 220. First Aid.** American Red Cross requirements for first aid; opportunity for standard and advanced certification. (2)

**PE 235. Psychology of Coaching and Human Performance.** Development of a coaching philosophy, instructional techniques, and strategies for dealing with teaching, practice, and game situations. (3)

**PE 238. Foundations, History and Philosophy of Physical Education.** Overview of the foundations, philosophy and development of the physical education profession in the United States. (3)

**PE 239. Teaching Children Physical Education.** Teaching developmentally appropriate physical education in the elementary school. Two lectures and two labs per week. (3)

**PE 240. Rhythm, Plays and Games.** Theory, skill development, and teaching techniques of children's rhythms, creative movement, and rhythmic activities. Four hours lab per week. (2)

**PE 262. Aerobic Certification Training.** Training in the American Council on Exercise (ACE) aerobics certification program in preparation for the ACE-certified Aerobics Instructor examination. (2)

**PE 305. Motor Development and Learning.** Examination of motor development across the lifespan. Examines the factors that affect the acquisition and performance of motor skills and their application to the teaching-learning process. Two hours lecture; two hours lab. (3)

**PE 308. Perceptual Motor Development.** Study of and involvement with children through motor development. Prerequisite: Block III or consent of instructor. (2)

**PE 309. Physical Education in the Elementary Curriculum.** An interdisciplinary approach to the integration of fundamental movement skills, wellness, and other physical education concepts with various elementary school disciplines. Co-requisite: Elementary Block III or consent of instructor. (1)

**PE 310. Assessment for Physical Educators.** Exploration of issues pertinent to assessment and research designs, test construction, administration, analysis, and basic data management. Two hours lecture and two hours lab. Prerequisite: HL 231. (3)

**PE 315. Methods in Middle School Physical Education.** An intermediate study of developmentally appropriate physical education programs for middle school students. Two hours lecture and two hours lab. Prerequisite: PE 239. (3)

**PE 341. Physiology of Conditioning.** Designed to present current foundations, theories and methods of conditioning. Prerequisites: BS 113/013. (3)

**PE 361-363. Independent Study in Health, Human Performance and Recreation.** Topics not included in basic curriculum. (1-3)

**PE 408. Physical Education for Individuals with Disabilities.** Study of individuals with physical, mental, or emotional disabilities in a multicultural physical education setting. Two hours lecture and two hours lab. Prerequisite: EX 390 or consent of instructor. (3)

**PE 464. Kinesiology.** Basic patterns and mechanical principles of motor behavior and their application in physical education and sport. Prerequisites: BS 113/013 or BS 312. (3)

## PHYSICS (PH)

**PH 106/006. Physical Concepts.** An introduction to the concepts and principles governing the natural physical world and their relation to society. Emphasis on developing an appreciation for the role of science in our life. Does not count on a major or minor. Two lectures and two hour lab. (University Studies course) (3)

**PH 109/009. Exploring the Universe.** An examination of the physical nature of planets, stars and galaxies, their interrelationships and evolutionary processes. Emphasis on the role of scientific inquiry in our present understanding of the Universe. Does not count on a minor. Two lectures and two hour lab. (University Studies course) (3)

**PH 120/020. Introductory Physics I.** Concepts and principles of natural phenomena, including mechanics, heat and energy, wave motion and sound, with emphasis on the investigative processes. Four lectures and one two-hour lab. Prerequisite: MA 133; MA 134; or equivalent. (University Studies course) (5)

**PH 121/021. Introductory Physics II.** Electricity, magnetism, optics, and modern physics. Four lectures and one two-hour lab. Prerequisite: PH 120. (5)

**PH 218. Physical Science: A Process Approach.** Major topics include atomic structure, elements and compounds, chemical reactions and energy concepts of heat, light, sound, electricity and magnetism. Does not count on a major or minor. Two lectures and two hour lab. Prerequisite: BS 118. (University Studies course) (3)

**PH 230/030. General Physics I.** Mechanics; kinematics and dynamics of linear and rotational motion; heat and thermodynamics. Four lectures and two hour lab. Prerequisite: MA 140. Pre or Co-requisite: MA 145. (5)

**PH 231/031. General Physics II.** Electricity, magnetism; wave motion and sound; geometrical and physical optics. Four lectures and two hour lab.

Prerequisite: PH 230. Pre or Co-requisite: MA 240. (5)

**PH 328. Energy.** Energy sources and energy flow in an industrialized society. Energy resources, production, conversion, and consumption. Growth of energy use and its environmental implications. On demand. Counts on a minor only. Prerequisite: MA 134 or MA 135. (3)

**PH 341. Optics.** Geometrical and physical optics; Fourier analysis; interference, diffraction, double refraction, gratings and light in matter. Prerequisites: PH 231; MA 245. (3)

**PH 345. Experimental Methods I.** Selected experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data, and written and oral reporting. One lecture; 2 two-hour labs. Prerequisites: Logical Systems (MA 134 or higher); PH 121 or PH 231. (3)

**PH 360. Modern Physics.** Theory of special relativity, quantum physics, atomic structure, nuclear physics, elementary particles. Selected topics chosen from recent developments in physics. Prerequisites: PH 231/031; MA 245. (3)

**PH 370. Mechanics.** Selected topics in Newtonian mechanics, including kinematics and dynamics of particles, oscillations, gravitation, Lagrangian and Hamiltonian dynamics, central-force motion, noninertial reference frames, and rigid-body dynamics. Prerequisites: PH 231; MA 245. (3)

**PH 371. Electromagnetics.** Electric fields, potential and dielectrics; magnetic fields, magnetic properties of matter; Maxwell's equations and electromagnetic waves. Prerequisites: PH 231; MA 245. (3)

**PH 378. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. May be repeated for credit. (1)

**PH 379. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. May be repeated for credit. (2)

**PH 400. Topics in Physics and Engineering.** Study of subject matter not included in the regular departmental curriculum. Course title will vary. Format may include lectures, labs, seminars, or other forums as required by the specific course. Prerequisites: MA 245; PH 231; or consent of instructor. (3)

**PH 445. Experimental Methods II.** Advanced experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data and written and oral reporting. One lecture and two 2-hour labs. Prerequisite: PH 345 or UI 330. (3)

**PH 473. Quantum Mechanics.** The fundamental postulates of quantum mechanics and their applications to selected systems. Topics include one-dimensional systems, perturbation theory, three-dimensional systems, angular momenta, one-electron atom, Hartree-Fock formalism, variational principles and quantum theory of scattering. Prerequisite: PH 360. (3)

**PH 475-476. Literature of Physics.** Intensive study of sources of physics literature by students doing a literature search on a selected topic in physics. Prerequisite: Consent of department chairperson. (1-2)

**PH 477. Physics Seminar.** Presentations and discussions by faculty and students on recent topics encountered in reading or research. Prerequisite: PH 121 or PH 231. (1)

**PH 478-479. Undergraduate Research.** Original research for students demonstrating superior ability. May be repeated twice for credit. Prerequisite: Consent of department chairperson. (1-2)

**PH 490-491. Independent Study in Physics.** Individual studies on selected topics not covered by regularly scheduled courses. Prerequisite: Consent of department chairperson. (1-2)

**PH 550. National Physics Programs.** Study of precollege physics curricula based on nationally developed programs. Familiarization with lecture, laboratory, audiovisual, and reference materials. Use of microcomputers. Two lectures and two hour lab. 0 Prerequisites: PH 231; MA 245; or consent of instructor. (3)

**PH 570. Mathematical Physics.** Selected topics in vector analysis, coordinate transformations, Fourier series, Legendre and Bessel functions, and partial differential equations. Emphasis on practical applications in physics. Prerequisites: PH 231; MA 350; or consent of instructor. (3)

**See University Studies (UI) listings for descriptions of:**

**UI 330. Experimental Methods I.** (3)

## **POLITICAL SCIENCE (PI, PS)**

**PI 381-383. Political Science Internship.** Practical experience with a public agency providing firsthand experience in the operations of public policy. Prerequisite: PS 103 or PS 104; 2.50 GPA. (1-3)

**PS 001. Senior Assessment.** Standardized exam, portfolio submission, self-assessment and exit interview. Required of all Political Science majors in their final semester. (0)

**PS 103. U.S. Political Systems.** Institutions and processes of national and state government, including an analysis of the Missouri Constitution. (University Studies course) (3)

**PS 104. Comparative Political Systems.** The institutions, cultures and practices of democratic and nondemocratic governments, including the United States, including an analysis of the Missouri Constitution. (University Studies course) (3)

**PS 220. Missouri Government.** Required of students who have PS 102 transfer credit, and who have not completed PS 103 or PS 104. Prerequisite: PS 102. (1)

**PS 230. American Public Policy.** Major foreign and domestic policies of the U.S. with emphasis on current issues. Prerequisite: PS 103 or PS 104. (3)

**PS 240. Introduction to Political Science.** An introduction to the basic concepts and research methods of the discipline, including approaches to study of political science. Prerequisite: PS 103 or PS 104. (3)

**PS 280. Introduction to Global Issues.** Concepts and theories to analyze global issues emphasizing conflict, cooperation, arms control, human rights, the environment, development, and the role of the United States. Prerequisite: PS 103 or PS 104. (3)

**PS 300. Pre-Law LSAT.** Noncredit course designed to familiarize students with the Law School Admission Test (LSAT). (0)

**PS 310. Government and Politics in the American States.** In-depth analysis of the government processes and management of the American states with particular emphasis placed on their interaction. Prerequisite: PS 103 or PS 104. (3)

**PS 335. American Foreign Policy.** A study of the formulation and implementation of contemporary American foreign policy. Prerequisite: PS 103 or PS 104. (3)

**PS 355. Less Developed Nations.** A survey of socio-economic and political developments of Third World countries in Africa, Asia, and Latin America. Prerequisite: PS 103 or PS 104. (3)

**PS 360. Political Parties and Voting Behavior.** An examination of their organization and role in the political process with attention given to interest groups and public opinion. Prerequisite: PS 103 or PS 104. (3)

**PS 365. Legislative Process in the United States.** Introduction to American assemblies with primary attention on the U.S. Congress and its role in policy making. Prerequisite: PS 103 or PS 104. (3)

**PS 380. International Organizations.** Origins, objectives, structures, and functions of the United Nations

and non-affiliated organizations of regional cooperation. Prerequisite: PS 103 or PS 104. (3)

**PS 384-386. Political Science Internship.** Practical experience with a public agency providing firsthand experience in the operations of public policy. Prerequisites: PS 103 or PS 104; overall GPA of 2.50. (3)

**PS 387-389. Independent Study in Political Science.** Directed individual study of special interest areas in political science. Prerequisite: Consent of instructor. (1-3)

**PS 390. The American Judicial System.** Organization and function of federal and state courts including their interaction with the executive and legislative branches of government. Prerequisite: PS 103 or PS 104. (3)

**PS 402. Fundamentals of Public Administration.** A comprehensive examination of the operations of public agencies from an internal and external perspective. Prerequisite: PS 103 or PS 104. (3)

**PS 403. Public Personnel Administration.** An analysis of personnel practices, procedures, and research of the state and federal agencies. Prerequisite: PS 103 or PS 104. (3)

**PS 405. Organizational Theory and Behavior.** Major concepts of organization theory and behavior. Topics include organization structure and design, bureaucracy, the systems concept, leadership, culture, job satisfaction and motivation. Prerequisite: PS 103 or PS 104. (3)

**PS 415. Government Budgeting Process.** Procedures and decision making strategies involved in the preparation, authorization, and expenditure of the federal budget. Prerequisite: PS 103 or PS 104. (3)

**PS 418. Public Policy Analysis.** Systematic analysis of how public analysts evaluate different policy issues. Prerequisite: PS 103 or PS 104. (3)

**PS 425. Administrative Law and Procedure.** An analysis of rules, procedures, and decision-making practices of public agencies at the state and federal level. Prerequisite: PS 103 or PS 104. (3)

**PS 460. Government and Politics of Western Europe.** A study of government and politics of Western Europe. This course provides a comparative perspective emphasizing the politics of Britain, France, Germany, Spain, Italy, and the institutions of the European Union. Prerequisite: PS 103 or PS 104. (3)

**PS 470. Politics of the Developed World.** An examination of the major political, social, and economic issues facing governments of the developed world. Prerequisite: PS 103 or PS 104. (3)

**PS 490. Constitutional Law.** Major decisions of the Supreme Court, the policy-making role of the

Court and judicial behavior of judges. Prerequisite: PS 103 or PS 104. (3)

**PS 491. Topics in Political Science.** Analysis of variable topics in Political Science. May be repeated for credit. (3)

**PS 570. Comparative Government.** Governmental principles and practices in the United Kingdom, France, Germany, and the Soviet Union. Prerequisite: PS 103 or PS 104. (3)

**PS 580. International Politics.** Analysis of the super powers struggle for economic military and political power with emphasis on the Third World. Prerequisite: PS 103 or PS 104. (3)

**PS 595. International Law.** Examination of those principles generally governing the conduct of nations. Prerequisite: PS 103 or PS 104. (3)

**See University Studies (UI) listings for descriptions of:**

**IU 310. Government and Politics of East Asia.** (3)

**UI 320. Modern Presidency** (3)

**UI 322. International Political Economy** (3)

**UI 342. Modern Political Thought** (3)

**UI 350. Middle East Politics** (3)

**UI 357. Early American Political Thought** (3)

**UI 358. Foundations of Political Thought** (3)

**UI 361. Contemporary Political Theory** (3)

**UI 440. The Holocaust** (3)

## **PSYCHOLOGY (PY)**

**PY 101. Psychological Perspectives on Human Behavior.** Examination of human behavior and experience from a psychological perspective. Application of psychological principles to understanding of human behavior. (University Studies course) (3)

**PY 102. Introduction to Psychology.** Introduction to the field of psychology. Includes perception, learning, memory, motivation, emotion, intelligence, personality, human development, psychopathology, and social behavior. (3)

**PY 103. Career Development in Psychology.** Introduction to the major and the discipline of psychology. Discussion of the philosophy and scientific nature of a career in psychology, including active exploration of career possibilities. (3)

**PY 120. (Cross-listed as CF 120). The Child: Development from Conception to Adolescence.** An overview of the social, cognitive, physical and emotional changes that occur from conception to adolescence. Application of principles of development to the understanding of child development and behavior. (University Studies course) (3)

**PY 151. Social Decision Making.** Concepts, theories and research that contribute to understanding, analyzing and evaluating people's thinking and behavior in social psychological interactions. (University Studies course) (3)

**PY 220 Psychological Development Across the Life Span.** Broad overview of human development across the life-span. Reciprocal nature of the individual/environment interaction is emphasized. (University Studies course) (3)

**PY 222. Development of the Adolescent.** The basic physical, cognitive, social and personality development of the adolescent period will be examined. Efforts will be made to understand current issues affecting adolescence in light of recent empirical and theoretical knowledge. (University Studies course) (3)

**PY 250. Applied Psychology.** A comprehensive study of how psychology is used, how psychologists do their work and how applications of psychology affect daily life. (3)

**PY 251. Industrial and Organizational Psychology.** Survey of industrial-organizational psychology as a science and a profession. Theory is integrated with skill development in several areas. (3)

**PY 271. Research Design and Analysis I.** Introduction to basic data analysis used in psychological research, including descriptive and inferential techniques and elements of research design. (3)

**PY 301 Cross-Cultural Psychology.** Focus on understanding different cultural values, norms, and beliefs. Topics to be covered include the differences in cognitive processes that lead to misunderstandings and conflicts between members of different groups. (3)

**PY 325. Psychological Development of the Family.** Examination of psychological factors affecting family development and interaction across the stages of family life. (3)

**PY 329. (Cross-listed as PY 529). Psychology of Death and Dying.** An exploration of the significant psychological issues related to death, dying, and loss as they affect individuals in the 21st century. (3)

**PY 353. Social Cognition.** Analysis of theories, evidence, and practical applications of the way that people make sense of their personal and social lives. (3)

**PY 358. Social Psychology.** A survey of psychological aspects of social action and interaction, including aggression, attitudes, attraction, altruism, prejudice, group behavior, environmental psychology, and applied social topics. (3)

**PY 359. Psychology and the Law.** Psychological analysis of law, criminality and the judicial system.



Emphasis on psychological research exploring all aspects of the legal system. (3)

**PY 362. Learning and Memory.** Basic phenomena of learning and memory, including: principles of classical and instrumental conditioning; the roles of contiguity, practice and reinforcement in learning; transfer of learning; and retention of learning. (3)

**PY 364. Comparative Cognition.** A review of the history and theory associated with the scientific study of cognition in animals. The course specifically reviews contemporary research in attention, memory, primate cognition, serial learning, timing and counting, and concept learning. Evolutionary similarities and differences among species are explored. (3)

**PY 366. Introduction to Sensation and Perception.** Introductory study of the behavioral, physiological and cognitive aspects of sensation and perception. (3)

**PY 370. Research Design and Analysis II.** Introduction to research methods used in psychological research, including experimental, survey, and observational designs. Prerequisites: PY 102 with a grade of C or higher; PY 103 with a grade of C or higher; PY 271 with a grade of C or higher. (3)

**PY 432. Introduction to Personality.** Introduction to theories on personality, assessment of personality and application of personality theory and assessment to basic life processes. (3)

**PY 440. Abnormal Psychology.** Survey of classification and assessment of abnormal behavior, its causes and methods of treatment. (3)

**PY 441. Introduction to Clinical Psychology.** Survey of the understanding, assessment, treatment and prevention of maladaptive behavior. (3)

**PY 442. Psychotherapy.** Theoretical and methodological aspects of analytic, neo-analytic, existential, cognitive, and behavioral therapies and assessment of their clinical effectiveness. (3)

**PY 444. Childhood: Psychopathology.** Survey of the clinical description, causes and treatment of the major forms of abnormal behavior evident during childhood and adolescence. Prerequisite: PY/CF 120 or PY 220. (3)

**PY 450. Organizations as Open Systems.** Organizations and organizational behavior are studied from an open system theory orientation. (3)

**PY 460. Cognitive Processes.** Principal cognitive processes in humans, theoretical explanations and empirical findings. Prerequisite: one PY course. (3)

**PY 465. Motivation and Emotion.** Physiological, social, cognitive, and environmental factors that contribute to the causation, maintenance, and regulation of motivated and emotive behaviors. (3)

**PY 466. Introduction to Physiological Psychology.** An introduction to the neural, hormonal, and genetic mechanisms that help mediate behavior. (3)

**PY 484. Advanced Research in Psychology.** A research experience emphasizing the integration of material from previous research courses through conducting an original research study under the direction of a mentor. Prerequisites (with grades of C or higher): PY 102; PY 103; PY 271; PY 370. (3)

**PY 491-492. Directed Readings in Psychology.** Directed reading in an area of psychology allowing students to increase their knowledge in an area of individual interest. Prerequisites: Completion of 75 semester hours; minimum 2.75 GPA in psychology or 2.50 cumulative GPA; consent of department chairperson. (2-3)

**PY 493-494. Directed Research in Psychology.** Supervised experimental study of a psychological topic selected by the student, who should be well informed in fundamentals of experimental methods and statistics. Prerequisites: Completion of 75 semester hours; minimum 2.75 in psychology or 2.50 cumulative GPA; consent of department chairperson. (2-3)

**PY 495. Internship in Psychology.** Practical experience utilizing psychological principles and research methodology in applied settings. Prerequisites: Psychology major; 18 hours of PY courses; GPA of 2.50 in psychology. (3)

**PY 497. Historical Development in Psychology.** Development of psychology as a discipline and profession. An historical coverage of systems and directions representing the breadth and diversity of the discipline. Prerequisites: PY 370 with a grade of C or higher and completion of the extended core requirements in the major. (3)

**PY 521. Advanced Child Development.** In-depth investigation of selected topics in cognitive, social, emotional and physical development from conception through late childhood. Prerequisite: PY 120 or PY 220 or PY 222; or consent of instructor. (3)

**PY 525. Maturity and Aging.** Investigation of the physical, intellectual, social and cultural influences on post-adolescent development. (3)

**PY 529. (Cross-listed as PY 329). Psychology of Death and Dying.** Examination of the processes of death, dying and bereavement in contemporary society. (3)

**PY 531. Psychological Testing.** Basic principles of construction, administration and interpretation of psychological tests. Considerations in the use of tests in various settings. (3)

**PY 555. Health Psychology.** Applications of psychology which contribute to the promotion of health and the prevention of disease through behavior change in health enhancing directions. Topics to be covered include health promotion and wellness, psychosomatic illness, risk factor identification, and disease prevention, and career opportunities in health psychology for administrators, service providers, and consultants. (3)

**PY 571. Introductory Behavioral Statistics.** An introduction to descriptive and inferential statistics used in the reporting of educational and psychological research. (3)

**See University Studies (UI) listings for descriptions of:**

**IU 304. Gender and Intimacy (3)**

**UI 300. Drugs and Behavior (3)**

**UI 317. Human Sexuality (3)**

**UI 354. Lifestyle Enhancement (3)**

**UI 430. Aging Successfully: Critical Issues Facing the Individual in the 21st Century (3)**

**UI 444. Americans and Their Institutions. (3)**

## **QUANTITATIVE METHODS (QM)**

**QM 257. Business Statistics I.** Statistical methods with business applications emphasis. Includes descriptive statistics, probability, discrete and continuous distributions, sampling theory, estimation, and ethical considerations. Prerequisites: AD 101; MA 134 with a minimum grade of 'C'. (3)

**QM 258. Business Statistics II.** Test of Hypotheses, Analysis of Variance (ANOVA), simple linear regression, multiple linear regression and nonparametric testing. Prerequisite: QM 257 with a minimum grade of 'C.'

**QM 352. Management Science.** The application of mathematical techniques to business problems including decision theory, linear programming, queuing theory and forecasting. Prerequisite: QM 258 with a minimum grade of 'C'; junior standing. (3)

**QM 358. Operations Management.** Study of transformation processes and value delivery chains, inventory, logistics, and other aspects of production and service operations. Prerequisite: QM 258 with a minimum grade of 'C'; junior standing. (3)

## **RECREATION (RC)**

**RC 100. Leisure in a Diverse Culture.** Study of leisure and its impact on contemporary culture, diverse populations, and the lives of individuals. (University Studies course) (3)

**RC 112. Introduction to Music Therapy.** Survey of music therapy settings and interdisciplinary professional applications. Emphasis on experiential learning of concepts. (3)

**RC 116 (Cross-listed as HL, PE, SM 116). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**RC 119. Outdoor Adventure Special Topics.** Special topics in outdoor adventure skills and principles that are unavailable through the department curriculum. May be repeated for credit on different topics. Prerequisite: Consent of instructor. (1-3)

**RC 140. Introduction to Recreation Services.** Historical and philosophical foundations of recreation and leisure profession, influences of recreation and park movements, technological, economic, and community impact on leisure delivery systems. (3)

**RC 150. Outdoor Living Skills.** Introduction to the basics in wilderness camping and backcountry travel skills; emphasis placed on a variety of wilderness environments. (3)

**RC 151. Outdoor Adventure Skills.** Introduction to the basics in outdoor adventure skills; emphasis on rock climbing, mountain biking and canoeing/kayaking. (3)

**RC 210. Camp Leadership.** Organization and administration of camps and principles of camp leadership. (3)

**RC 220. Leadership and Group Dynamics.** Principles and techniques in recreation leadership, leadership theories, and group dynamics. For recreation majors and minors; or by consent of instructor. (3)

**RC 230. Recreational Sports.** Exploration and examination of the recreational sports/intramurals/campus recreation field including philosophy and programming. (3)

**RC 245. Mentoring Principles and Practices.** Introduction to the community service field with emphasis on peer and youth mentoring programs. Focus on successful mentoring skills and exploration of mentoring programs. (3)

**RC 250. Foundations of Outdoor Recreation.** The outdoor recreation movement and the role of federal, state, and community agencies in response to outdoor recreation demands. (3)

**RC 260. Introduction to Therapeutic Recreation.** Introduction to recreation programming of major agencies serving special populations. (3)

**RC 270. Commercial Recreation.** An overview of the area of commercial recreation and the process of establishing

a commercial recreation entrepreneurship. (3)

**RC 288. Practicum in Recreation Services.** Limited observation and extensive hands-on participation as a para-professional in local recreation/park programs. Six hours field work; one hour seminar per week. Prerequisites: RC 140; Recreation major or minor. (3)

**RC 300. Leisure Education.** Students learn concepts and models of leisure education, communication skills, leadership strategies in leisure education, and how to build and maintain helping relationships. Prerequisite: RC 260. (3)

**RC 303 (Cross-listed as HL 303). Research Methods.** Overview of research methods in health and recreation with emphasis on research designs, instrument construction, and basic data management. Prerequisites: HL 111 or RC 140; Health Management or Recreation major. (3)

**RC 304. Therapeutic Recreation: Program Design.** Examination of the process of service delivery in Therapeutic Recreation including client assessment, program planning/evaluation, and client progress/outcomes. (3)

**RC 310. Outdoor Leadership.** Implementing technical and facilitation skills required in the backcountry and evaluating the history, philosophy, and trends in outdoor adventure programming. Prerequisite: RC 150; Recreation major, Recreation minor or Outdoor Adventure Leadership minor. (3)

**RC 311. Parks and Outdoor Resource Management.** Understanding the philosophy and principles underlying the growth and development of parks and outdoor resource management in terms of historical values and environmental issues. Prerequisite: Junior standing. (3)

**RC 316. (Cross-listed as HL, RC, SM 316). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**RC 321-323. Independent Study in Recreation.** Topics not included in basic curriculum. (1-3)

**RC 324. Independent Study in Therapeutic Recreation.** An investigation of contemporary issues and problems in therapeutic recreation to include assessment, planning and implementing, documentation, organizing and diagnostic grouping. (3)

**RC 345. Youth Development Through Leisure.** Understanding developmental stages of youth and the impact of recreational programs on character, identity, and personal growth. Focus on facilitating changes in leisure behavior. Prerequisite: RC 245. (3)

**RC 360. Therapeutic and Adapted Recreational**

**Services.** Recreation services for special population groups. Prerequisite: RC 260. (3)

**RC 361-363. Independent Study in Health, Human Performance and Recreation.** Directed individual study of special interest areas in health and leisure. (1-3)

**RC 380. Programming for Recreation Services.** Principles of program planning for recreation and park settings. Pre or Co-requisite: RC 288. (3)

**RC 385. Recreational Facilities Planning and Management.** Trends, problems and future directions of facility development, construction and maintenance of recreation and park facilities. Pre or Co-requisite: RC 288. (3)

**RC 386. Aquatic Facility Management.** Development, management and promotion of modern aquatic facilities based on industry standards and guidelines. Preparation for national aquatic management certification. (3)

**RC 405. Trends and Issues in Recreation and Leisure.** Study of current economic and social changes and their influence on leisure pursuits and on the recreation profession. Prerequisites: Junior standing; 15 hours of recreation completed. (3)

**RC 420. Organization and Administration of Recreation Services.** Administration of public recreation and park services provided by municipal, county, and state agencies. Prerequisites: RC 380; RC 385; senior standing. (3)

**RC 440. Facilitation of Group Development.** Applies experiential education theory in group settings. Focus is on designing and facilitating experiences which incorporate critical reflection, problem-solving and decision-making skills. Prerequisite: RC 220. (3)

**RC 450. Outdoor Adventure as Treatment.** Study of the outdoor adventure field and current therapeutic models of outdoor adventure therapy. Prerequisites: RC 260; SR 448. (3)

**RC 460. Problems and Issues in Therapeutic Recreation.** An investigation of contemporary issues and problems in therapeutic recreation to include assessment, planning and implementing, documentation, organizing, and diagnostic grouping. Prerequisites: Completion of 15 hours in recreation; 2.50 overall GPA or 2.75 in RC courses. (3)

**RC 497. Recreation Internship.** Internship with approved professionals in selected recreation/park programs. Experience in all phases of a recreation/park agency operation. Prerequisites: Senior standing; completion of all degree requirements; 2.50 GPA in the major; 2.25 cumulative GPA; faculty advisor's and university's internship supervisor's approval. (12)

**RELIGION (RS)**

**RS 101. World Religions.** A study of major world religions, including an examination of various definitions and characteristics of religion as exemplified in the histories of religions and their impact on societies. (University Studies course) (3)

**RS 201. New Testament Literature.** A study of the literary genres and historical contexts of the New Testament writings. (University Studies course) (3)

**RS 202. Old Testament Literature.** An historical and critical study of the literature of the Old Testament, using tools of modern biblical scholarship. (University Studies course) (3)

**RS 210. Asian Religions.** A study of religious systems of India, Southeast Asia, China and Japan. (3)

**RS 350. Religious Topics and Issues.** An analysis of specific question areas in religion, such as death and dying, personal immortality, divine foreknowledge. (May be repeated for credit when different topics are offered.) (3)

**SECONDARY EDUCATION (SE)**

**SE 275. (Cross-listed as EL 274). Diversity in American Schools.** Exploration of race, ethnicity, and gender issues in schooling today. (3)

**SE 300. Technology to Enhance Learning.** An intermediate level integration of methods for implementing current educational technology into the curriculum through project-based learning designed to address specific subject areas. (2)

**SE 301. Fundamentals of Middle School Education.** History, philosophy, organization, and curriculum of middle level schools and the instructional strategies and technology for teaching young adolescents. Prerequisite: Secondary Block I. Co-requisites: SE 302; SE 305; SE 306; SE 307. (3)

**SE 302. Reading and Writing in Middle School.** A study of reading and writing as tools for learning in the middle school content area. Co-requisites: SE 301; SE 305; SE 306; SE 307. (3)

**SE 305. Secondary Block II Field Experience.** Integration of appropriately designed field experience corresponding with achievement of the MOSTEP standards specified in Secondary Block II coursework. Prerequisite: Block I. Co-requisite: Block II. (2)

**SE 306. Theories of Learning and Management.** Classroom instruction in learning theory and behavior management will be coordinated with instruction of a student in an integrated field experience. Prerequisite: Block I. Co-requisite: Block II (2)

**SE 307. Teaching Reading in Secondary School.**

Provides the student with a variety of methods and materials for improving reading skills at the secondary level. Prerequisite: Block I. Co-requisite: Block II. (2)

**SE 308. Fundamentals of High School Education.** History, philosophy, organization, and curriculum of high schools and the instructional strategies and technology for teaching adolescents. Prerequisite: Block I. Co-requisite: Block II. (3)

**SE 311. Techniques of Teaching High School Mathematics.** Methods, materials and trends in secondary mathematics. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 312. Curriculum Development and Techniques of Teaching Vocational Home Economics.** Organization, administration, curriculum development and methods of teaching in vocational home economics programs at the elementary, secondary and adult levels. Prerequisites: Blocks I and II. Co-requisite: Block III. (4)

**SE 314. Techniques of Teaching Business and Marketing.** Methods, materials and trends in secondary business education. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 315. Techniques of Teaching Art.** Methods, materials and trends in secondary art. Co-requisite: Block III. (3)

**SE 316. Techniques of Teaching Technology Education.** Philosophy, methods, materials and trends in technology education. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 317. Methods in Agricultural Education.** (3) Introduction to a variety of pedagogical methods commonly used in agricultural education, implementation of cross and co-curricular teaching, and focus on bringing about full integration of the three sectors of agricultural education. Co-requisite: Block III. (3)

**SE 318. Techniques of Teaching Secondary Social Studies.** Methods, materials and trends in secondary social studies. Prerequisites: Blocks I and II; SS 300; 48 hours in Social Studies major 3.0 gpa in major courses. Co-requisite: Block III. (3)

**SE 319. Techniques of Teaching English.** Teacher candidates will learn about and apply the methods, materials, and trends in secondary English. Co-requisite: Block III. (3)

**SE 320. Techniques of Teaching Science.** Methods, materials and trends in secondary science. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 321. Techniques of Teaching Physical Education.** Methods, materials and trends in secondary school physical education. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 322. Techniques of Teaching Foreign Languages.** Methods, materials and trends in foreign language education. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 323. Techniques of Teaching Speech and Theatre.** Methods, materials and trends in the teaching of speech communication at the secondary level. Prerequisites: Blocks I and II. Co-requisite: Block III. (3)

**SE 330. Techniques of Teaching - Alternative Certification.** Techniques of teaching for students in the Alternative Certification program. (3)

**SE 370. Secondary Block III: Field Experience.** Students will apply knowledge of professional education, an academic specialization and exceptional children, to appropriate classroom settings. Prerequisites: Blocks I and II. Co-requisite: Block III. (2)

**SE 371. Middle Block III Field Experience-Language Arts.** Students will apply knowledge of professional education, an academic specialization, and the exception child to an appropriate classroom setting. Co-requisite: Block III. (1)

**SE 372. Middle Block III Field Experience-Math.** Students will apply knowledge of professional education, an academic specialization, and the exception child to an appropriate classroom setting. Co-requisite: Block III. (1)

**SE 373. Middle Block III Field Experience-Science.** Students will apply knowledge of professional education, an academic specialization, and the exception child to an appropriate classroom setting. Co-requisite: Block III. (1)

**SE 374. Middle Block III Field Experience-Social Studies.** Students will apply knowledge of professional education, an academic specialization, and the exception child to an appropriate classroom setting. Co-requisite: Block III. (1)

**SE 460. Practicum.** Professional practicum for students in the Alternative Certification program requiring classroom teaching under the direction and supervision of site administrators and program coordinator. (6)

**SE 463. Student Teaching Experience I.** Professional practicum requiring demonstration of teaching competencies in school settings under the direction of cooperating teachers and university coordinators. Co-requisites: EF 400; SE 464. Prerequisites: Senior status; one semester in residence; completion of all required professional education courses; all academic coursework related to certification; good standing in the Teacher Education program. (6)

**SE 464. Student Teaching Experience II.** Professional practicum requiring demonstration of teaching competencies in school settings. Students teach under the direction of cooperating teachers and university coordinators. Co-requisite: EF 400. Prerequisite: SE 463. (6)

**SE 480. Independent Study in Middle and Secondary Education.** Independent work in a specialized area not covered by regular course offerings. Prerequisite: Consent of Instructor. (1-3)

**SE 500. The Internet in Education.** Study of the internet and its uses in education, including the design of educational web pages and planning of internet-based activities for students. In addition, this course will give students an appreciation for the management issues surrounding the development and use of information technology in education. Prerequisite: SE 300 or consent of instructor. (3)

## **SOCIAL REHABILITATION (SR)**

**SR 444. Treatment Strategies: Alcohol and Drug Abuse.** Orientation to treatment approaches (modalities) relating to alcohol and drug abuse. Individual treatment approaches, family therapy and intervention models as well as selected group treatment approaches will be explored. Prerequisite: Junior standing. (3)

**SR 448. Juvenile Justice Treatment and Intervention Strategies.** An overview of treatment strategies used in juvenile justice programs and an opportunity to observe and participate in actual programs at local agencies. Prerequisites: SW 110; PY 440 or PY 444. (3)

## **SOCIAL SCIENCE (OS)**

**OS 200. Survey of Social Science.** Survey of the origins, development, and practice of social science in the disciplines of history, political science, economics, sociology, anthropology, psychology, and geography. (3)

**OS 300. Problems in Social Science.** Investigation of selected problems in the social science disciplines. (3)

**OS 400. Social Science Research Methods.** Introduction to concepts of research methods in social science with emphasis on developing questions and hypotheses, reviewing literature, planning studies, gathering and analyzing data, and writing reports of results. (3)

**SOCIAL STUDIES EDUCATION (SS)**

**SS 200. Introduction to Teaching Social Studies in the Secondary School.** A survey of social studies education, including history, purposes, and the expectations of teachers in this field. (3)

**SS 300. Constructing Curriculum in Secondary Social Studies.** Practical combination of the aims, skills, and knowledge of history and the social sciences with the best practices derived from pedagogical research for the purpose of constructing meaningful units and courses appropriate for secondary social studies classes. Prerequisites: SS 200; 3.0 GPA in major courses. Pre or corequisite: GH 315. (3)

**SOCIAL WORK (SW)**

**SW 103 (Cross-listed as BS 103). Human Biology.** Emphasis on human cell, tissue, and organ system function. Discussions focus on a systems approach to human health and disease. Does not count on any major or minor in Biology Department. (University Studies course) (3)

**SW 110. Introduction to Social Work.** Provides a survey of social work profession and its central ideas, values, methods, and practice settings. (3)

**SW 121. Helping Skills for the Human Services.** Developing interpersonal communication competency through study of verbal communication principles and strategies, helping strategies, and the influence of culture and gender. (University Studies course) (3)

**SW 201. Social and Economic Justice.** Explores social and economic justice with connections to minority status and oppression. (3)

**SW 207. Understanding Cultural and Social Diversity.** Presents knowledge and develops understanding, affirmation, and respect for people from diverse backgrounds within their cultural contexts at the interpersonal level. (University Studies course) (3)

**SW 221. Interviewing Skills for Generalist Practice.** Provides an introduction to basic interviewing skills for generalist social work practice. Prerequisites: SW 110; Social Work major. (3)

**SW 222. Case Management.** Study of client-driven service coordination with special emphasis on strength-based assessment. Corequisite: SW 221. Prerequisite: SW 110; Social Work major. (3)

**SW 255. Special Topics in Social Work.** Study of specific social work topics and issues. (May be repeated for credit on different topics.) On demand. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 242. Statistics for Social Scientists.** Basic descriptive statistics in social science. Central tendency, dispersion, contingency, correlation, regression. Inferential statistics; parametric and non-parametric. (3)

**SW 307. Human Behavior and Social Environment I.** Introduces students to knowledge, theories, and concepts about human behavior with emphasis on individuals and families. Prerequisite: Admission to the Social Work program. (3)

**SW 308. Human Behavior and Social Environment II.** Introduces students to knowledge, theories, and concepts about human behavior in the context of groups, organizations, and communities. Prerequisite: SW 307 with a minimum grade of 'C'. (3)

**SW 310. Social Welfare Policies and Services.** Critical analysis and evaluation of social welfare policies and programs/services. Prerequisites: SW 110 and SW 201 with a minimum grade of 'C'; University Studies Political and Economic Systems. (3)

**SW 315. Social Work Intervention.** Explores beginning knowledge and skills needed for providing intervention with individuals, families, groups and social systems. Limited to non-Social Work majors. Prerequisite: SW 110. (3)

**SW 321. Generalist Practice I.** Introduces skills and knowledge for working with individuals in the context of the larger social environment. One 2-hour lecture and one 2-hour lab. Prerequisite: SW 307 with a minimum grade of 'C' or concurrent enrollment; Social Work major. (3)

**SW 322. Generalist Practice II.** Focuses on development and application of intervention skills for generalist social work practice with individuals, families, and groups. One 2-hour lecture and one 2-hour lab. Prerequisite: SW 321 with a minimum grade of 'C'; SW 308 with a minimum grade of 'C' or concurrent enrollment; Social Work major. (3)

**SW 323. Generalist Practice III.** Focuses on development and application of intervention skills in assessment, planning and social change for generalist social work practice with communities. One two-hour lecture and one two-hour lab. Prerequisites: SW 321 and SW 342 with a minimum grade of 'C'; SW 308 and SW 322 with a minimum grade of 'C' or concurrent enrollment; Social Work major. (3)

**SW 342. Methods of Social Research for Generalist Practice.** The application and use of the social scientific method for measuring social work intervention. Prerequisite: SW 242 with a minimum grade of 'C'. (3)

**SW 351. Child Welfare Services.** Examines knowledge and skills required for effective social service

delivery to families and to children in day care, foster care or adoptive placement. Prerequisite: SW 110 with minimum grade of 'C' or consent of instructor. (3)

**SW 352. Social Welfare Services to the Aged.** Examines the knowledge and skills required for effective social service delivery to the elderly. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 353. Child Development.** Students will learn the physical, cognitive, social and personality changes of development from conception to adolescence. Emphasis will be placed on how abuse/neglect impacts normal development. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 354. Crisis Intervention.** Course explores the theory, skills and methodology of crisis intervention with individual, family and community systems. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 355. Special Topics in Social Work.** Study of specific social work topics and issues. (May be repeated for credit on different topics.) On demand. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 356. Social Work in Mental Health.** Description of the roles, tasks and methodology of social workers in the field of mental health; also providing a basic understanding of diagnostic categories relevant to mental illness and introducing information about treatment strategies. Prerequisite: SW 110 with a minimum grade of 'C' or consent of instructor. (3)

**SW 387-389. Independent Study for Social Work.** Directed individual study of special interest areas in social work. May be repeated for credit. On demand. Prerequisite: Consent of instructor. (1-3)

**SW 449. Social Work Integrative Seminar.** Integrates social work theory with practice using small group discussions. Strengthens practice skills during the student's field practicum. Prerequisites: Completion of all required courses for Social Work major; cumulative GPA of 2.50 or cumulative GPA of 2.25 plus 2.75 GPA in foundation social work courses; senior standing; successful completion of WP 003. (3)

**SW 450. Field Education.** Internship in social service agency for one semester. Opportunity to apply entry level social work generalist practice skills. Agency placements individually arranged. Prerequisites: Completion of all required courses for Social Work major; cumulative GPA of 2.50 or cumulative GPA of 2.25 plus 2.75 GPA in foundation social work courses; senior standing; successful completion of WP 003. Credit/no credit only. (12)

## **SOCIOLOGY (SI, SO)**

**SI 496. Sociology Internship.** Internship with a public or private agency providing first hand experience in the application of sociological skills. Prerequisites: 24 hours in SO courses. Credit/no credit. (6)

**SO 102. Society, Culture and Social Behavior.** A series of lectures, projects and group discussions analyzing the impact of society and culture on human social behavior. (University Studies course) (3)

**SO 120. Cities and Society.** Analysis of urbanization, including city life and problems, land use patterns, and the future of the city. (University Studies course) (3)

**SO 205. Social Problems in America.** Examines the causes and consequences of societal problems such as crime, delinquency, racism, and poverty. (3)

**SO 240. Interpretation of Data.** A non-mathematical introduction to understanding numerical information as appearing in crime rates, opinion polls, marketing reports, consumer information, and the like. (3)

**SO 242. (Cross-listed as SW 242). Statistics for Social Scientists.** Basic descriptive statistics in social science. Central tendency, dispersion, contingency, correlation, regression. Inferential statistics; parametric and non-parametric. (3)

**SO 300. Organized and White-Collar Crime.** Analysis of organized and white-collar crime in America. Topics include prevalence, investigative techniques, causes and effects, and both social and criminological responses to counter its dominance in American society. Prerequisite: CJ 100 or SO 102. (3)

**SO 305. Race, Gender, Class and Crime.** Socio-historical analysis of the effects of race, ethnicity, socio-economic status, and gender on legitimate social opportunities, criminal behavior, victimizations, and differential treatment by the criminal justice system. Prerequisite: SO 102. (3)

**SO 360. Criminology.** A survey of crime in America, analyzing lawmaking, lawbreaking, and society's attempts to control and eliminate criminal behavior. (3)

**SO 370. The Family.** Surveys the family as a structure common to all societies, emphasizing needs, changes, dating and mating, sexuality, child rearing, conflict and enrichment. (3)

**SO 375. Collective Behavior.** Examines phenomena such as crowds, publics, fads, fashions, disasters, and social movements. Prerequisite: SO 102 or consent of instructor. (3)

**SO 385. Family Violence.** A sociological analysis

of violent behavior among significant others; looks at causes and consequences, prevention and treatment strategies. (3)

**SO 387-389. Independent Study in Sociology.** Directed individual study of special interest areas in sociology. (1-3)

**SO 444. Deviant Social Behavior.** An examination of abnormal behavior as a product of the structure and process of one's social environment. (3)

**SO 495. Senior Seminar.** Students will research and analyze an issue of sociological concern, with emphasis on bringing together theory and method in sociology. (3)

## **SPANISH (SN)**

**SN 001. Spanish Exit Exam.** All majors are required to enroll in this non-credit-bearing exam during their senior year. At the time of the exam, students must present their portfolio containing documents they have been accumulating in their major throughout their undergraduate career. The course number SN 001 will appear on the Degree Audit. Prerequisite: Students must have completed all coursework in Spanish or be in their last year of completing the coursework. (0)

**SN 100. Spanish Language and Culture I.** Acquisition of an appreciation of the culture of Spanish-speaking peoples and study of speaking, understanding, reading, and writing Spanish. (University Studies course) (3)

**SN 120. Spanish Language and Culture II.** Continued study of Spanish speaking peoples through the practice of speaking, understanding, reading, and writing Spanish. Prerequisite: SN 100 or equivalent. (University Studies course) (3)

**SN 200. Spanish Language and Culture III.** Continued study of Spanish language and culture. Cultural, conversational, and structural activities leading to increased proficiency and cross-cultural awareness. Prerequisite: SN 120 or equivalent. (University Studies course) (3)

**SN 220. Hispanic Literature.** Designed to develop the ability to read Hispanic literary texts; to acquaint students with a selection of major Hispanic authors; to introduce the basic concepts of literary analysis; and to increase the ability to speak and understand Spanish through class discussions in Spanish. Prerequisite: SN 200 or equivalent. (University Studies course) (3)

**SN 300. Spanish American Culture.** Introduction to Spanish American Culture, from pre-Colombian culture to the present century. Prerequisite: SN 220. (3)

**SN 301. Intermediate Spanish Composition.**

Practice of the written language through the study of style and composition. Prerequisite: SN 220. (3)

**SN 302. Experiencing Spanish Language and Culture.** Sharing a residence hall (one semester) with an international, native Spanish-speaking student. Prerequisites: Limited to non-native, Spanish-speaking students concurrently enrolled in a Spanish class (200-level or above) living with native Spanish-speaking roommate in designated residence hall; cum. GPA 2.00 or higher. (1)

**SN 305. Conversational Spanish.** Practice in the spoken language through class discussions and prepared talks. Prerequisite: SN 220. (3)

**SN 306. Civilization of Spain.** Survey of historical and literary background of Spanish civilization and culture. Prerequisite: SN 220. (3)

**SN 316. Commercial Spanish.** A business and professional course for the practical application of Spanish. Prerequisite: SN 220. (3)

**SN 330. Spanish Grammar.** Review of the elements of Spanish grammar and study of the essential structures of the language. Prerequisite: SN 220. (3)

**SN 400. Special Topics: Spanish.** Designed to cover a variety of knowledge and skills, using a range of topics pertaining to the Spanish-speaking world. Taught in Spanish. May be repeated once for credit. Prerequisite: SN 220. (3)

**SN 402. Independent Study in Spanish.** Advanced-level study of language, culture, or literature for Spanish majors. May be repeated once for credit. Prerequisites: SN 220; consent of department. (3)

**SN 403. Survey of Spanish Literature I.** From the Middle Ages to the 18th century. Prerequisites: SN 220. (3)

**SN 404. Survey of Spanish Literature II.** From the 18th century to the present. Prerequisites: SN 220. (3)

**SN 430. Spanish American Literature I.** Representative authors from the pre-Colombian period to the early 19th century. Prerequisites: SN 220. (3)

**SN 435. Spanish American Literature II.** Representative authors and literary movements from 1888 to present. Prerequisites: SN 220. (3)

**SN 495. Foreign Language Internship in Spanish.** Work experience using Spanish in a professional setting in a business or agency. Prerequisite: declared Spanish major; Junior standing, with completion of a minimum of 24 credit hours in Spanish; minimum 2.50 GPA and 3.00 in Spanish; a level of proficiency in Spanish appropriate to the professional setting as evaluated by the departmental assessment procedures; approval of the Department of Global Cultures and Languages. (3)



## **SPORT MANAGEMENT (SM)**

**SM 116. (Cross-listed as HL, PE, RC, 116). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**SM 220. Introduction to Sport Management.** Introductory course exploring the history, development, governance, and current status of sport management. (3)

**SM 316. (Cross-listed as HL, RC 316). Special Topics in Health, Human Performance and Recreation.** Special topics in health and leisure unavailable in the department curriculum. May be repeated for credit on different topics. (1-3)

**SM 340. Sport Ethics.** Examination of ethical principles relating to sport specific issues within the context of managing sport services. Prerequisite: PL 204. (3)

**SM 360. Sporting Event Management.** Prepares the prospective sport manager in the management of sport related events. Prerequisites: SM 220; declared Sport Management major or Sport Management minor. (3)

**SM 361-363. Independent Study in Health, Human Performance and Recreation.** Directed individual study of special interest areas in health and leisure. (1-3)

**SM 370. Practicum in Sport Management.** Supervised field experience in a sport agency designed to meet the student's professional interests and goals. Prerequisites: Acceptance to Sport Management major; junior standing. Co-requisites: SM 465; CL004. (2)

**SM 455. Sport-Related Venue Design and Operation.** Design and management of sport related facilities. Prerequisite: SM 360 or consent of instructor. (3)

**SM 460. Fundamentals of Sport Delivery Systems.** Examination of the fundamental theories and practices used to deliver sport products and services to consumers. Prerequisite: SM 360. (3)

**SM 465. Professional Seminar in Sport Management.** Professional expectations and job seeking skills in sport management. Prerequisite: junior standing. Co-requisite: SM 370 or consent of instructor. (1)

**SM 470. Sport Management Internship.** Full-time, supervised field experience in a sport agency designed to meet the student's professional interests and goals. Culminating experience for sport management students. Prerequisites: SM 370 and SM 465 with grade of 'C' or higher; senior standing with cumulative GPA of 2.5; GPA in major of 2.5; consent of instructor. (12)

**SM 540. Legal Aspects of Sport and Physical Activity.** Exploration of the various legal principles applicable to the sport industry. Prerequisites: Senior standing; declared Sport Management major or minor or Coaching minor or consent of instructor. (3)

**SM 570. Management and Leadership in Sport Organizations.** Application of contemporary management concepts to the operation of sport organizations. Prerequisite: SM 460 or consent of instructor. (3)

## **TELECOMMUNICATIONS AND COMPUTER NETWORKING (TN)**

**TN 100. Introduction to Computer Networking I.** Focus on setup of personal computer systems, plan and installation of home or small business network, troubleshooting Internet connectivity, resources sharing, home network security, IP addressing. Prerequisite: PC basics. (3)

**TN 101. Introduction to Computer Networking II.** Basic overview of routing and remote access, addressing and security. Introduction of network design, installation, configuration and troubleshoot networking devices, server configuration and backups, WAN connectivity implementation and network performance monitoring. Prerequisite: TN 100. (3)

**TN 254. Fiber Optics and Network Communications.** Principles of fiber optics, system components, applications of fiber optics in data and network communication systems. (3)

**TN 255. Microcomputer Maintenance and Troubleshooting.** A study of the installation and repair of major computer components and peripherals including printers, disk driver and display. (3)

**TN 275. Network Fundamentals.** Comprehensive overview of networking; from fundamentals to advanced applications and services. The course emphasizes concepts and skills required to design networks, while providing opportunities for practical application and hands-on experience. Topics include data network and the Internet, layered communications, networking models, networking services and protocols. Prerequisite: TN 254. (3)

**TN 375. Network Routing Protocols and Concepts.** Advanced networking course focusing on the purpose, nature, and operations of routers and routing protocols. The course emphasizes IOS installations, configurations and maintenance of routers. Details of routing protocols including both distance vector and link state algorithms. Configuration and troubleshooting

of routing protocols in routed networks. Prerequisite: TN 275. (3)

**TN 395. Server Maintenance and Troubleshooting.** Installation and configuration of network operating systems and infrastructure with focus on virtual environments, network communications, server set-up, maintenance, trouble-shooting, and administration utilizing network operating systems including VMware, Linus, Windows Server, and Desktop Operating Systems. Prerequisite: TN 255. (3)

**TN 425. Wireless Communications and Mobile Data Networks.** Topic in analog cellular phone systems (AMPS); digital cellular standards – GSM, IS-95; short message service (SMS); 2.5 G data services; cellular standards (CDMA 2000 and WCDMA/UMTS); wireless LANs (IEEE 802.11); Bluetooth, Mobile IP; ad hoc and sensor networks. Prerequisites: MA 134; TN 275. (3)

**TN 435. Network Security.** Topics in security services, threats, and vulnerabilities for networked environments. Principles of cryptography, security protocol design and analysis, node and service authentication, address spoofing, hijacking, SYN floods, sniffing, viruses, intrusion detection, firewalls, and ethical and legal issues. Prerequisites: MA 134; TN 375. (3)

**TN 563. Local Area Network Switching.** Switching and operation of networking technologies and protocols. Topics include operation and security configurations of VLAN, trunking, VTP, inter-VLAN routing and layer two networks. Two hours lecture; two hours lab. Prerequisite: TN 275. (3)

**TN 565. Network Management.** Design, performance analysis, monitoring, optimization, and trouble-shooting of modern data communication networks. Topics include managing TCP/IP networks using SNMP, protocol analysis, remote management, and performance improvement. Two hours lecture; two hours lab. Prerequisite: TN 566. (3)

**TN 566. IP Telephony.** Theories of Voice over IP (VoIP) and data networking. Topics include TCP/IP network, voice packetizing and compression, VoIP protocols and architecture, Quality of Service (QoS) and security of IP telephony systems. Two hours lecture; two hours lab. Prerequisite: TN 563. (3)

## **TESOL (TL)**

**TL 110. Basic Composition ESL.** Development of basic writing skills necessary for success in EN 100 and EN 140. Combines classroom work in small groups with lab work in individual tutorials which meet for 30 minutes per week. Placement based on score on the

University ESL placement tests. (3)

**TL 425. Materials and Assessment for English as a Second Language Classroom.** Materials development and adaptation for the ESL/EFL classroom; development of a variety of assessment measures. Prerequisite: TL 585. (3)

**TL 525. English as a Second/Foreign Language: Learning and Teaching.** Basic theories and methods of teaching ESL/EFL. Includes work with ESL students and description of personal theory and method of ESL teaching. Prerequisites: EN 140; any 200-level literature course. (3)

**TL 530. Practicum for Teaching English To Speakers of Other Languages.** Provides students with practical classroom experience in teaching English to Speakers of Other Languages (ESOL). Pre or Co-requisites: TL 525; TL 585. (3)

**TL 585. Methods and Techniques for Teaching ESOL.** Introduces student to techniques for teaching ESOL. Includes work with ESOL students, class observations, and workshop experience. Prerequisites: EN 140; any 200-level Literature course; TL 525; or consent of instructor. (3)

## **THEATRE (TH)**

**TH 100. Theatre Appreciation.** Promotes an appreciation for and an understanding of theatre in contemporary society. Emphasizes the script, artist, audience interaction. (University Studies course) (3)

**TH 101. Acting for Non-Majors.** Acting as a form of self-expression emphasizes personal awareness, relaxation, concentration, coordination and integration, vocal skills, and scene study. (University Studies course) (3)

**TH 105. (Cross-listed as DA 105.) Rehearsal and Production I.** Training and practical, hands-on experience in performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. (1)

**TH 107. (Cross-listed as MM 107.) Theory Skills and Analysis for Musical Theatre.** Development of analytical skills in musical theatre repertoire. (3)

**TH 122. (Cross-listed as MM 121.) Class Voice for Musical Theatre I.** Beginning principles of singing and vocal technique for musical theatre. May be repeated for credit. (3)

**TH 155. Makeup.** A study of designing and applying makeup for stage/television/film, including exploration into theory, character analysis, materials, and

techniques. Lecture and lab sessions plus production work required. (3)

**TH 218. Acting I.** The first of a three-year Stanislavski-based acting sequence -including theory, exercises, and scene study. Prerequisites: Theatre and Dance major or minor; consent of instructor. May be repeated for credit. (3)

**TH 219. Auditioning.** Explores various audition, cold-reading, and interview techniques, marketing strategies, and solo exercises for actors. (1)

**TH 222. Class Voice for Musical Theatre II.** Intermediate principles of singing and vocal technique for musical theatre. Prerequisite: TH 122; consent of instructor. May be repeated for credit. (3)

**TH 231. Stagecraft I.** The technical aspects of scenery construction (carpentry, painting, properties, sound, theatre organization, etc.) which contribute to a unified approach in producing a play. Lab and production work required. (3)

**TH 245. (Cross-listed as AR/DA/MU 245). Creating and Managing a Career in the Arts.** Introduction to business skills and management practices for success in the visual and performing arts. (3)

**TH 251. Costume Construction.** A study in basic theatre and dance costume construction, including an examination of shop organization, wardrobe maintenance, fabrics, tools, patterns, and sewing techniques. Lecture and lab sessions plus production work required. (3)

**TH 265. Drawing for the Theatre.** The understanding of technical drawing for the theatre. Computer aided and non-computer aided drafting, drawing conventions, tools, symbols, styles, as well as applications. Introduction and manipulation of basic design elements. Prerequisites: TH 231; consent of instructor. (3)

**TH 305. (Cross-listed as DA 305.) Rehearsal and Production II.** Advanced laboratory course exploring various areas of performance, crew work, and all aspects of technical production through active participation in the mounting of departmental productions. May be repeated for credit. Prerequisites: Two credit hours of TH 105 and/or DA 105; or consent of instructor. (1)

**TH 307. Musical Theatre Score Study.** Study of musical theatre literature through analysis, guided listening, and performance. Selections from early development to the present will be included. (3)

**TH 316. Acting II.** A continuation of the theories and practices developed in Acting I. Prerequisites: TH 218 (6 hours) or consent of instructor. May be repeated for credit. (3)

**TH 317. Voice for the Stage.** A basic study of vocal mechanics, common vocal problems, proper breathing, and methods of voice improvement for public performance. (3)

**TH 318. Musical Theatre Performance I.** Scene study and exercise course designed to give performers the opportunity to apply singing, acting, and dance technique to musical theatre scripts and scores. Prerequisites: TH 122 (6 hours); TH 218 (6 hours); or consent of instructor. May be repeated for credit. (3)

**TH 319. Acting for Film and Television.** Merges Stanislavski-based technique training with the special demands and techniques of acting in film, television, and other electronic media. May be repeated for credit. Prerequisite: TH 218 or consent of instructor. (3)

**TH 321. Stage Combat I.** Emphasizes safety, methods of staging, falling and rolling, unarmed stage fighting, and basic stage swordplay. (3)

**TH 322. Class Voice for Musical Theatre III.** Advanced principles of singing and vocal technique for musical theatre. Prerequisite: TH 222; consent of instructor. May be repeated for credit. (3)

**TH 331. Stagecraft II.** Advanced topics in stage technology, including: advanced rigging techniques, production planning, electronic controls, pneumatics, hydraulics, structural design for the stage, welding, and other state-of-the-art technologies. Laboratory required. Prerequisite: TH 265; or consent of instructor. (3)

**TH 350. Stage Lighting I.** Principles of stage lighting, use of equipment, fundamentals of electricity, and design of lighting for the stage. Prerequisites: TH 231; or consent of instructor. (3)

**TH 351. Costume Design I.** Study in problem-solving and design-thinking for costume designers, organized around a study of period fashions. Prerequisites: TH 251; TH 265; or consent of instructor. (3)

**TH 361. Scene Painting.** A study of theatrical painting techniques. Lab and production work required. (3)

**TH 371. Scene Design I.** A study of and application of basic design principles geared to the creation of stage environments for play production. Prerequisite: TH 265; or consent of instructor. (3)

**TH 375. Performing Arts Management.** Study of managerial duties, supervisory responsibilities, and organizational skills necessary in publicity, front of house/box office, and backstage management as it pertains to theatrical and dance production. (3)

**TH 381. Script Analysis.** Investigation and application of contemporary, formal approaches to the criticism and analysis of dramatic literature. (3)

**TH 385. Directing I.** A fundamental course designed to enhance the student's understanding of the practical as well as the artistic skills of directing for the theatre. Prerequisites: TH 218, 231, and 251; or consent of instructor. (3)

**TH 386. Sound Design.** Application of the artistic and technological aspects of theatrical sound design and production. Prerequisite: TH 231 or consent of instructor. (3)

**TH 395. Period and Style.** A survey of historical periods and artistic styles influence on costume and architecture with an emphasis placed on the relevance for theatre and dance designers and director/choreographers. (3)

**TH 416. Acting III.** An advanced scene study course designed to give actors the tools to handle classical texts or alternative theatrical styles and approaches to acting. Prerequisite: TH 316 or consent of instructor. May be repeated for credit. (3)

**TH 418. Musical Theatre Performance II.** Advanced scene study and exercise course designed to give performers the opportunity to apply singing, acting, and dance technique to musical theatre scripts and scores. Prerequisites: TH 318; or consent of instructor. May be repeated for credit. (3)

**TH 431. Stage Combat II.** Continuation of Stage Combat I emphasizing advanced stage swordplay practice. Prerequisite: TH 321. (3)

**TH 450. Stage Lighting II.** Advanced topics in stage lighting design and technology, including: computer controlled lighting, moving lightings, DMX 512, design software. Laboratory required. Prerequisites: TH 265; TH 350; or consent of instructor. (3)

**TH 451. Costume Design II.** Advanced study in rendering style and problem solving for costume designers, including survey of costume design opportunities in theatre, dance, film, and other venues. Prerequisites: TH 351; or consent of instructor. (3)

**TH 461-463. (Cross-listed as DA 461-463). Independent Study.** Individual study in theatre and dance. (1-3)

**TH 471. Scene Design II.** Advanced study and application of design principles geared toward the creation of stage environments for Shakespearean productions, multi-set plays, musical theatre, and dance. Prerequisite: TH 371; or consent of instructor. (3)

**TH 485. Directing II.** A continuation of the theories and practices developed in Directing I along with an introduction to various styles and alternative directing techniques. May be repeated for credit. Prerequisite: TH 385. (3)

**TH 488. Senior Portfolio.** Senior-level audition/

portfolio class exploring various audition/interview techniques and strategies. Also examines various entrepreneurial skills to help launch early careers. Prerequisites: declared major in Theatre; Senior standing. (3)

**TH 490. Theatre History I.** Development of drama and theatre from ancient Greece to the English Restoration. (3)

**TH 495. Theatre History II.** Development of drama and theatre from the English Restoration to the contemporary era. (3)

**TH 498. (Cross-listed as DA 498). BFA Project.** The preparation, presentation, and assessment of a major artistic project. Prerequisites: Senior status; and consent of department chair. (2)

**TH 499. (Cross-listed as DA 499). Internship.** Practical involvement in a performing arts company/venue. Course will be graded on a credit/no credit basis. (4)

**See University Studies (UI) listings for description of:**

**UI 384. History of the Musical (3)**

## UNIVERSITY STUDIES (IU, UI)

**UI 100. First Year Seminar.** An academic skills-centered seminar which introduces students to the University Studies Program and the value of liberal education while addressing one of a variety of themes. See First Year Experience web site for themes (<http://www.semo.edu/firstyearssem>) Required of all students entering the university with fewer than 24 credit hours. (3) (University Studies course)

**UI 300. Cyberlaw.** Provides students with a foundation in law as it relates to business, ethical, political, and international issues focusing on technology and e-commerce. Prerequisites: Junior standing; BL 255, PS 103, PS 104, or CJ 220 with a grade of 'C' or higher. (3) (University Studies course)

**IU 301. Historical Perspective: American Agriculture.** Historical development of America's agriculture and the interplay of economic, political, biological and cultural environments of modern America. Prerequisites: Economic Systems; Living Systems; Political Systems. (3) (University Studies course)

**IU 304. Gender and Intimacy.** An analysis and evaluation of societal, behavioral, and cultural influences of gender-related phenomena on women's and men's intimate relationships. Prerequisites: Behavioral Systems; Social Systems. (3) (University Studies course)

**IU 305. Entrepreneurship.** An exploration of innovation, opportunity, and new business creation

as economic and personal imperatives for success in the global economy. Prerequisites: Behavioral Systems; Economic Systems; Political Systems; Social Systems. (3) (University Studies course)

**IU 306. Perspectives on Urban Design.** Study of the design of the built environment. (3) (University Studies Course)

**IU 308. Compassionate Communication.** Concrete, effective person-to-person communication skills, expressing oneself to gain what is wanted without alienating others, listening to enhance understanding, and navigating conflicts. Also called non-violent communication (NVC). (3) (University Studies Course)

**IU 309. Writing for Science and Technology.** This course will explore professional literacy by introducing forms, methods, standards, and issues central to scientific and technical writing in academic and workplace environments. (3) (University Studies Course)

**IU 310. Government and Politics of East Asia.** Survey of social, economic and international forces that influence politics of East Asian societies. Prerequisites: PS 103 or PS 104; Economics Systems or Social Systems. (3) (University Studies Course)

**IU 314. GeoInfo Science Today.** Encompasses knowledge-based computational modeling of activities and processes in the human and natural environments using geographic information systems (GIS). (3) (University Studies Course)

**IU 315. Ethics in the Cyber World.** Social and ethical issues and controversies concerning new and evolving technologies in the cyber world. (3) (University Studies Course)

**UI 300. Drugs and Behavior.** An interdisciplinary coverage of psychoactive drugs from the perspectives of psychopharmacology, history, and criminal justice. (3) (University Studies course)

**UI 301. Managerial Communication Processes.** An examination and application of appropriate managerial communicative techniques for leading others to perform well in various organizational contexts. Prerequisite: SC 105 or equivalent introductory oral communication course. (3) (University Studies course)

**UI 303. The Female Experience.** A seminar studying the past and present experiences of women in diverse cultures to enhance the human experience. Prerequisites: Oral Expression; Written Expression. (3) (University Studies course)

**UI 304. The History and Culture of West Africa.** A study of West African history and culture from ancient times to the present. Prerequisite: Development of a

Major Civilization. (3) (University Studies course)

**UI 305. Judicial Reasoning.** A normative and descriptive examination of the role of the courts in contemporary American society via the principles of judicial reasoning. Prerequisites: Junior standing; completion of lower division University Studies core curriculum. (3) (University Studies course)

**UI 306. Film and History.** American film as both historical and literary document from its origins to the present time in feature films, television, and documentaries. Prerequisites: Development of a Major Civilization; Literary Expression. (3) (University Studies course)

**UI 307. Economic Geography.** Examination of economic development for three spatial levels: international, national, and metropolitan from a geographic perspective. Prerequisites: Economic Systems; Social Systems. (3) (University Studies course)

**UI 308. Cultural and Physical Landscapes of the World: A Geographical Analysis.** A geographical analysis of world landscapes utilizing physical, cultural and economical concepts to illustrate complex interrelationships existing between various regions. One two-hour lecture; one two-hour laboratory. Prerequisites: Physical Systems; Social Systems; Economic Systems. (3) (University Studies course)

**UI 309. Crime and Human Behavior.** An interdisciplinary study of the causes and effects of crime and delinquency. Prerequisites: Behavioral Systems; Social Systems. (3) (University Studies course)

**UI 310. The American Musical Experience.** An examination of the musical experience of the American people as manifested in folk, ethnic, jazz, and pop music, and music in the fine art tradition. Prerequisites: Junior standing; ability to read music. (3) (University Studies course)

**UI 312. Perspectives on the Present.** Contemporary issues will be analyzed and placed into historical perspective. Emphasis on use of the historical method for analysis. Prerequisites: Junior standing; Development of a Major Civilization; Social Systems; Behavioral Systems; Written Expression; Oral Expression; or consent of instructor. (3) (University Studies course)

**UI 313. The African-American Experience.** A study of the historical and literary culture of African-Americans from the slave experience to the twentieth century. Prerequisites: Development of a Major Civilization; Literary Expression. (3) (University Studies course)

**UI 315. Electronics and Computers in Music.**

Theoretical and “hands on” experience with musical applications of electronics and computers. Prerequisites: Junior standing; Artistic Expression, Logical Systems and Natural Systems should be complete. While some experience with music, computers, electronics and acoustics is helpful, classes in these courses are not prerequisites for this course. (3) (University Studies course)

**UI 316. Contemporary Legal Studies.** This course is an examination of current legal issues and the role of the American legal system in the resolution of those issues. Prerequisite: 45 hours. (3) (University Studies course)

**UI 317. Human Sexuality.** Study of human sexuality, emphasizing biological, psychological, and sociological aspects. Sexuality issues dealing with critical thinking and valuing will be emphasized. Prerequisites: Living Systems; Behavioral Systems; Social Systems. (3) (University Studies course)

**UI 318. Earth Science: A Process Approach.** A process-oriented investigation of the interrelationships among the Earth Sciences and their interaction with living systems. One two-hour lecture and one two-hour lab per week. Prerequisite: BS 218. (3) (University Studies course)

**UI 319. Science, Technology and Society.** The impact of technology on individuals and society through critical analysis of selected modern topics using communication and critical thinking skills. Prerequisites: Economics Systems; Social Systems; Physical Systems; Political Systems. (3) (University Studies course)

**UI 320. The Modern Presidency.** Examination of the modern American presidency from the combined perspectives of history, political science, and speech communication. Prerequisite: Sophomore standing. (3) (University Studies course)

**UI 322. International Political Economy.** Exploration of the interaction of political and economic forces as it affects international flows of goods, money, investments and technology. Prerequisites: Political Systems; Economic Systems. (3) (University Studies course)

**UI 330. Experimental Methods in Physics and Engineering I.** Selected experiments in physics and engineering with emphasis on measurement system design, equipment selection, acquisition and evaluation of data, and written and oral reporting. One lecture and two two-hour labs. Prerequisites: Logical Systems (MA 134 or higher); PH 121 or PH 231. (3) (University Studies course)

**UI 331. Found of Biochemistry.** Structure and function of amino acids, proteins, lipids, and

carbohydrates. Generation and utilization of energy. Prerequisite: CH 342 or consent of instructor. (3) (University Studies course)

**UI 332. Images of Women in Literature.** Investigation of the views of women which have prevailed and still prevail in literary thought. Prerequisite: EN 140; any 200 level literature course. (3) (University Studies course)

**UI 336. Religion in America.** An historical study of the social, political and philosophical roles of religion in America. Prerequisites: Suggested completion of the lower division University Studies curriculum or consent of instructor. (3) (University Studies course)

**UI 337. Issues in Modern Architecture.** Analysis of the interrelational development of issues between twentieth century architecture and European/American civilization. Prerequisites: Artistic Expression or Development of a Major Civilization. (3) (University Studies course)

**UI 339. North American Indians.** North American Indians through settlement and expansion of the American frontier. Indian lifestyles today. Prerequisite: Social Systems or consent of instructor. (3) (University Studies course)

**UI 340. Housing Perspectives.** Study of the relationship between humans and the built environment including social, psychological, economic and physical factors. Prerequisites: Behavioral Systems; Social Systems; Economic Systems; Political Systems. (3) (University Studies course)

**UI 341. Victorian Studies.** Examination of literary, political, and scientific achievements in 19th Century England. Prerequisite: Literary Expression. (3) (University Studies course)

**UI 342. Modern Political Thought.** A critical analysis and examination of the normative concepts and ethical problems of modern political thought. Prerequisites: Political Systems; Social Systems; Behavioral Systems. (3) (University Studies course)

**UI 343. Transcultural Experience.** A study of the influence of cultural diversity upon the professions and major fields, which culminates in a supervised on-site expedition to the country/region of study. Prerequisites: Junior standing. One course in each of at least two of the following 100-200 systems: Behavioral, Social or Living. Study of the language of the selected culture is recommended. (3) (University Studies course)

**UI 344. Plants and Humanity.** The psychological, physiological, and social responses of people to the plants in their environment and the role they play in the improved physical and mental health of individuals as well as communities. Prerequisites: Social Systems;

Artistic Expression or Behavioral Systems. (3) (University Studies course)

**UI 345. Nonverbal Communication.** Study of Nonverbal Communication. Areas of study include body language, vocal cues, touching behavior, environmental factors, eye behavior, physical appearance. Prerequisites: Artistic Expression; Oral Expression; Behavioral Systems; Social Systems. (3) (University Studies course)

**UI 347. Living in a Global Society.** To understand and appreciate the interrelatedness of issues confronting the world and find action-oriented approaches to resolving them. Prerequisites: Social Systems; Behavioral Systems. (3) (University Studies course)

**UI 349. Comparative Economic Systems.** How market, mixed, planned and developing economic systems are organized and function to obtain major economic, political and social goals. Prerequisites: Economic Systems; Political Systems. (3) (University Studies course)

**UI 350. Middle East Politics.** A survey of social, economic and international forces that influence politics of Middle Eastern societies with particular emphasis on Egypt, Israel, Syria and Turkey. Prerequisites: Political Systems; Economic or Social Systems. (3) (University Studies course)

**UI 351. Public Opinion Management.** Discussion of basic principles of public relations, publicity and propaganda used by business, political, and non-profit organizations to influence public opinion and communicate with their various publics. (3) (University Studies course)

**UI 352. Medical Ethics.** An examination of the ethical and social issues related to medicine, nursing, and biomedical research. Prerequisites: Junior standing or consent of instructor. (3) (University Studies course)

**UI 354. Lifestyle Enhancement.** An interdisciplinary study of the psychology of health and lifestyle management. Prerequisites: Behavioral Systems; Social Systems. (3) (University Studies course)

**UI 355. Consumer and the Market.** The interdisciplinary study of the application of the critical thinking process to analyze economic, social, behavioral and political actions and interaction of consumers with the market and their use/consumption of those products and services acquired through the market exchange process. Prerequisites: Economic System; Political Systems; Behavioral Systems; Social Systems. (3) (University Studies course)

**UI 357. Early American Political Thought.** A critical historical analysis and philosophical examination of the origins and development of early American political thought articulated in the classic works of

significant American political theorists. Prerequisites: Political Systems; Social Systems; Behavioral Systems. (3) (University Studies course)

**UI 358. Foundations of Political Thought.** A critical examination and study of ancient and medieval political thought articulated in the original classic works of significant political philosophers. Prerequisites: Political Systems; Social Systems; Behavioral Systems. (3) (University Studies course)

**UI 359. Consumers: Buying/Having/Being.** Examines consumption behavior with emphasis on the psychological, sociological, cultural, economic, and environmental influences. Reviews importance of products to consumers. Prerequisites: Social Systems and/or Behavioral Systems. (3) (University Studies course)

**UI 360. Recycling and Waste Management.** Exploration of personal, institutional, and societal strategies for dealing with solid and hazardous wastes. Prerequisites: Junior standing; Living Systems; Physical Systems. (3) (University Studies course)

**UI 361. Contemporary Political Theory.** A critical historical analysis and philosophical examination of contemporary political thought and the origins and development of major political ideologies of the late 19th century and 20th century. Prerequisites: Political Systems; Social Systems; Behavioral Systems. (3) (University Studies course)

**UI 362. Contemporary French Culture.** A study of French society since 1945, including attitudes, achievements, institutions, and life styles of the French people. In English. Prerequisites: Development of a Major Civilization; Social Systems. (3) (University Studies course)

**UI 366. Law and Economics.** An analysis of the application of economic principles to all aspects of law including contract law, torts, and criminal law. Prerequisites: EC 101 or EC 215; Political Systems. (3) (University Studies course)

**UI 368. Mind, Meaning and Value.** Investigation of the theories, concepts and methodologies employed in the scientific study of the mind from 1650 to the present. Prerequisite: Completion of lower division University Studies curriculum or consent of instructor. (3) (University Studies course)

**UI 369. Vice and Virtue.** Investigation and analysis of some of the main concepts, issues and problems in moral psychology or character development. Prerequisite: Completion of lower division University Studies curriculum or consent of instructor. (3) (University Studies course)

**UI 370. Media Ethics.** A study of the ethical

questions that arise in modern mass media with emphasis on journalism, advertising and entertainment. Prerequisite: Junior standing or consent of instructor. (3) (University Studies course)

**UI 371. Government and Business.** Government regulation of business in the United States with emphasis on differing economic and political perspectives concerning such regulation. Prerequisites: Economic Systems; Political Systems. (3) (University Studies course)

**UI 372. Earthquakes and Society.** Study of earthquakes: their causes, location, interaction with surface material and their effects on human society. The role of the public in seismic safety is examined in terms of both structural and nonstructural hazards in buildings as well as the need for earthquake preparedness. Prerequisites: Physical Systems; Social Systems. (3) (University Studies course)

**UI 373. Earth/Life Through Time.** Reading and evaluating the geologic record of biologic and geologic events, with chronicle of life and earth interaction through time. (3) (University Studies course)

**UI 375. European Film.** Study of major European films and film makers in the context of French, German, and Spanish cultures. Prerequisites: Artistic Expression; Oral Expression; Written Expression; Literary Expression; Development of a Major Civilization; or consent of instructor. (3) (University Studies course)

**UI 378. Physics of Star Trek.** How the universe as we know it compares with the universe of Star Trek and other popular science fiction. Prerequisites: CH 180 or CH 181 or CH 185 or higher; EN 140 or PL 115; MA 134 or higher; PH 106 or PH 109 or higher; SC 105. (3) (University Studies course)

**UI 382. History and Philosophy of American Mass Media.** An historical investigation of American mass media and the philosophies and concepts underlying their development from colonial to present times. Prerequisite: Completion of 45 hours. (3) (University Studies course)

**UI 384. History of the Musical.** The musical theatre genre is traced via close examination of its origins, evolution, and maturation as a living, contemporary art form. Prerequisites: TH 100; MU 182; or consent of instructor. (3) (University Studies course)

**UI 386. Environmental Health.** Introduction to fundamental scientific factors that affect human and ecosystem health, focusing on disease prevention/control and enhancing environmental quality. Prerequisites: Junior standing; Living Systems (any BI or BS course); Physical Systems. (3) (University Studies course)

**UI 387. Environmental Law and Public Policy.**

Introduction to the formulation and provisions of environmental regulations and policies with an emphasis on major federal legislative acts. Prerequisites: Junior standing; Living Systems (any BI or BS course); Physical Systems. (3) (University Studies course)

**UI 390. The Film Musical.** Study of the integrated components of dance, music and theatre in film musicals, placed in their American socio-historical contexts. Prerequisites: One 100- or 200-level University Studies course in dance, music or theatre or consent of instructor. (3) (University Studies course)

**UI 392. The Age of Romanticism.** Examination of the Romantic Movement through an in-depth study of eight masterpieces of Romantic music in the context of their times. Prerequisites: MH 251 and MH 252; or MU 181 or MU 182 by consent of the instructor; or consent of the instructor. (3) (University Studies course)

**UI 393. The Age of Modernism.** This course will examine the phenomenon of Modernism in music and culture through the study of thirteen masterpieces of music in the context of their time. Prerequisites: MM 203 and MM 207; or MU 181 or MU 182 by consent of the instructor; or consent of the instructor. (3) (University Studies course)

**UI 394. Music and Culture 1600-1750.** This course will investigate the development of music from 1600-1750 and its place in the culture of Western Europe. Prerequisites: MH 251 and MH 252 or MU 181 and MU 182 or consent of instructor. (3) (University Studies course)

**UI 396. The Age of Beethoven.** An examination of Beethoven's life and music, and the cultural context in which it developed. Prerequisites: MM 203 and MM 207; or MU 181 or MU 182 by consent of the instructor. (3) (University Studies course)

**UI 397. Music in Medieval and Renaissance Culture.** This course will investigate the development of music between 900 and 1600 and its place in the culture of Western Europe. Prerequisites: MH 251 and MH 252 or MU 181 and MU 182 or consent of instructor. (3) (University Studies course)

**UI 400. Business and Ethics.** A study of the ethical questions that arise in the context of doing business in modern society. Prerequisites: Senior standing; completion of all lower division University Studies courses; or consent of instructor. (3) (University Studies course)

**UI 401. American Cultural Landscapes: Regional Architecture and Settlement Systems.** Study of American regional landscapes including house types, barns, and other folk structures. Prerequisites: Development of a Major Civilization; Social Systems;



Artistic Expression. (3) (University Studies course)

**UI 402. Music in World Cultures.** A study and comparison of the music, instruments, style, and the music-making process of diverse world cultures. Prerequisites: Junior standing; completion of 100, 200, and 300 level University Studies courses; ability to read music; or consent of the instructor. (3) (University Studies course)

**UI 406. Transforming the Female Experience.** Examination of multidimensional issues involved in current actions and potential strategies for transforming the human experience of women. Prerequisites: Oral Expression; Written Expression; UI 303; or consent of the instructor. (3) (University Studies course)

**UI 407. Rational Endeavor.** Study of rationality and its role as a framework for evaluating beliefs, actions and decisions in general. Prerequisite: Completion of University Studies core curriculum. (3) (University Studies course)

**UI 410. Manufacturing Research in a Global Society.** The study of national and international trends in manufacturing and production through the application of research and development techniques. Prerequisite: Completion of University Studies core curriculum. (3) (University Studies course)

**UI 412. American Health Care Systems and Issues.** This course focuses on the full spectrum of the American health care system. This includes the current health care concerns of diverse populations and legal/ethical issues. Prerequisites: Junior standing; completion of 100, 200 and 300 level University Studies courses; or consent of instructor. (3) (University Studies course)

**UI 414. The American Temper: Ideas in Conflict.** An examination of conflict in the religious, social, political, scientific, philosophic, and economic ideas of American civilization. Prerequisites: Junior standing; Literary Expression; Physical Systems, Living Systems, Behavioral Systems, Social Systems, Political Systems or Economic Systems; Development of a Major Civilization. (3) (University Studies course)

**UI 415. Science and Religion.** An integration of scientific and religious knowledge through reading and discussion related to epistemology, origins, and process. Prerequisites: Completion of lower division University Studies curriculum or consent of instructor. (3) (University Studies course)

**UI 416. Planetary Exploration: From Galileo to the Present and Beyond.** Examination of major developments contributing to our understanding of the solar system and their impact on the future of mankind. Prerequisite: Completion of the University Studies core curriculum. (3) (University Studies course)

**UI 418. European Mind.** An examination of the origin and development of modern European thought and culture. Prerequisites: Junior standing; Artistic or Literary Expression; Physical or Living Systems; Social or Political Systems; Development of a Major Civilization. (3) (University Studies course)

**UI 422. Scientific Reasoning.** Critical study of the reasoning used in the discovery and justification of scientific theories. Prerequisite: Completion of the University Studies core curriculum. (3) (University Studies course)

**UI 423. Political Communication.** The study of the exchange of symbols or messages that to a significant extent have been shaped by or have consequences for the functioning of political systems, i.e., an examination of the relationship between communication processes and political processes. Prerequisites: SC 105; PS 103 or PS 104; or consent of instructor. (3) (University Studies course)

**UI 425. Persuasion: Understanding, Practice and Analysis.** Principles, techniques and theories used to influence the behavior of others through oral communication, with special emphasis on the analytical tools necessary to evaluate persuasive appeals more responsibly. Prerequisites: Junior standing; completion of the University Studies core curriculum. (3) (University Studies course)

**UI 427. Service and Community.** This course provides theoretical investigation of and the opportunity for community service through volunteerism. Includes a one- hour integrated lab. (3) (University Studies course)

**UI 429. Environmental Ethics.** Comprehensive study of the ethical, social, scientific, and cultural problems associated with the use and abuse of natural resources. Prerequisites: Logical Systems; Physical Systems or Living Systems. (3) (University Studies course)

**UI 430. Aging Successfully: Critical Issues Facing the Individual in the 21st Century.** A study of the interaction of historical, economic, and political influences upon the biological and psychosocial nature of individuals aging into the 21st century. Prerequisites: Natural Systems; Human Institutions. (3) (University Studies course)

**UI 431. Shakespeare's Tragedies and the Human Condition.** An interdisciplinary study of nine plays by Shakespeare as they relate to contemporary issues and events. Prerequisite: Literary Expression. (3) (University Studies course)

**UI 432. Shakespeare's History Plays and Comedies and the Human Condition.** An

interdisciplinary study of five history plays and four comedies by Shakespeare. The plays will often be studied in the light of contemporary issues and events. Prerequisite: Literary Expression. (3) (University Studies course)

**UI 433. Aesthetics of Movement: Athletic Dancers and Artistic Athletes.** A critical investigation into the aesthetic difference, function, significance, and value of the movement disciplines of dance and sport. Prerequisite: 45 credit hours. (3) (University Studies course)

**UI 435. Literature of Sport.** The literary and sociological study of the role, both positive and negative, sport plays in American society. (3) (University Studies course)

**UI 436. Agricultural Ethics.** A study of agricultural issues and public policy using knowledge and methods from agriculture and social ethics. Prerequisite: Senior standing. (3) (University Studies course)

**UI 438. The Nature and Growth of Mathematical Thought.** An emphasis on mathematical ideas as a growing, changing human endeavor, which influences the history of societies including today's technological culture. Prerequisites: Development of a Major Civilization; MA 139 or MA 140. (3) (University Studies course)

**UI 440. The Holocaust.** A critical analysis and examination of some of the fundamental political philosophical questions, normative concepts and ethical problems of the Holocaust. Prerequisites: Junior standing; completion of University Studies core curriculum or consent of instructor. (3) (University Studies course)

**UI 443. Professional Experience in Chemistry.** Individualized study of and experience with the effective and appropriate design, execution, and reporting of chemical investigations. Prerequisite: CH 180, CH 181 or CH 185. (3) (University Studies course)

**UI 444. Americans and Their Institutions.** Study of the interdependence between basic psychological processes and the opinions of Americans toward their public institutions. Prerequisites: Natural Systems; Human Institutions. (3) (University Studies course)

**UI 446. The Civil Rights Movement.** A study of the American Civil Rights Movement from the 1950's to the present. Prerequisites: Development of a Major Civilization; Social Systems; Artistic Expression. (3) (University Studies course)

**UI 448. American Revolution Experience.** Study of the American Revolution from the perspectives of the ethnic, cultural and political groups that experienced it. Prerequisites: Development of a Major Civilization; Artistic Expression; Literary Expression. (3) (University

Studies course)

**UI 450. Capstone Experience.** Group-based solution of open-ended problems based on cases or scenarios from the "real world," requiring interaction among students with diverse training. Prerequisites: Completion of the University Studies core curriculum; senior standing in one of the disciplines specified for the particular section. Additional prerequisites may be required for particular sections. (3) (University Studies course)

**UI 452. World Historical Geography.** World Historical Geography allows students to explore how political, military, and cultural history is changed by the physical world. Prerequisites: Junior standing; Completion of the University Studies core curriculum, in particular Physical Systems, Literary Expressions and Development of a Major Civilization. (3) (University Studies course)

**UI 454. Perspectives of Literacy: Challenges and Solutions.** A critical examination of variables impacting the development of literacy including perspectives from neuroscience, communication, education, and social science. Prerequisite: Completion of 300-level University Studies requirement. (3) (University Studies course)

**UI 455. Understanding Men and Male Development.** Comprehensive interdisciplinary study of boys, men, and male development across the lifespan; explores contemporary research on critical male issues and masculinity in the field of men's studies. (3) (University Studies course)

**UI 456. History of the Book.** Seminar and hands-on workshop exploring the influence of printing on the formation of world cultures up to the digital age. (3) (University Studies course)

**UI 500. History of the English Language.** Origin and development of the English Language, including grammatical forms, principles of sound change, and growth of English vocabulary. Prerequisite: Completion of lower division University Studies core curriculum. (3) (University Studies course)

**UI 501. Principles of Language.** Principles of Language is a study of the nature of language including its systems, role in society, historical and social changes, the development of writing systems, first and second language acquisition process, the biological foundations of language, and artificial or machine languages. (3) (University Studies course)

**UI 504. Leaders of Social Change.** A course in rhetorical criticism, exploring how rhetorical theories help us process and appreciate the substance of speeches and the effectiveness of speakers. Prerequisite: Junior standing. (3) (University Studies course)

**UI 505. Health-Related Quality of Life Across the Lifespan.** Critical exploration of “Quality of Life” or overall well-being related to health conditions among pediatric, adult, and geriatric populations across the life span. Prerequisite: Senior standing or completion of a 300-level University Studies requirement. (3) (University Studies course)

**UI 506. Education, Law and Society.** Study of the social and legal issues that have influenced public K-12 education. Prerequisite: Senior standing or permission of instructor. (3) (University Studies course)

**UI 508. African Americans During the Era of Segregation and Jim Crow.** A study of African Americans from the end of the Civil War to the beginning of the Civil Rights Movement. (3) (University Studies course)

## **WOMEN’S STUDIES (WS)**

**WS 100. Introduction to Women’s Studies.** (3)

**WS 300. Seminar: Issues in Women’s Studies.** (3)

## **WRITING PROFICIENCY (WP)**

**WP 003. 75 Hour Writing Proficiency Exam.** All students are required to enroll for this exam in the next semester after they have completed 75 semester hours. A passing score on this exam is required for graduation. Prerequisites: University Studies Written Expression; WP 002. NOTE: Students must present two photo ID’s for admission to the testing site.

## **ZOOLOGY (ZO)**

**ZO 200. Animal Biology.** Diversity of animal life with emphasis on invertebrates. Comparison of the major animal phyla emphasizing integration of function and form. Two lectures; two-hour lab. Prerequisite: BI 154. (3)

**ZO 315. Comparative Anatomy.** Intensive study of selected organ systems of lower chordates and representative vertebrates. One lecture; two two-hour labs. Prerequisite: ZO 200. (3)

**ZO 331. Animal Physiology.** Examination of functioning systems of vertebrates. Attention is given to the adaptiveness of these systems and to their integrated functioning. Two lectures; two-hour lab. Prerequisites: BI 154; CH 341 and CH 342. (3)

**ZO 414. Developmental Biology.** The differentiation of germ layers into tissues and organs with an emphasis on genetic processes and morphological patterns. Two lectures; two-hour lab. Prerequisite: BI 381. (3)

**ZO 420. Animal Behavior.** Evolutionary approach to the study of behavior of the individual and group. Topics include proximate and ultimate explanations of behavior. Prerequisites: BI 154; MA 134 or MA 135 or MA 139 or MA 140. (3)

**ZO 430. Invertebrate Zoology.** Invertebrate biology, diversity, phylogeny, structure, life history, development, and additional selected topics in invertebrate zoology. Studio style course. Prerequisites: ZO 200 or consent of instructor. (4)

**ZO 441. Parasitology.** Introduction to parasitism. Protozoans, platyhelminths, and nematodes are stressed, particularly host-parasite relationships and life cycles. One lecture; two two-hour labs. Prerequisite: BI 154. (3)

**ZO 459. Mammalogy.** Introduction to the ecology, zoogeography, structure/function, evolution, and behavior of mammals. One lecture; two two-hour labs. Prerequisite: BI 154. (3)

**ZO 460. Herpetology.** An introduction to the biology of the amphibians and reptiles. Evolutionary history, ecology, behavior, physiology, and distribution. Prerequisite: BI 154. (3)

**ZO 465. (Cross-listed as AO 435). Entomology.** Insect biology, behavior, control, structure, diversity, physiology and additional selected topics in entomology. Two lectures; two-hour lab. Prerequisite: BI 154 or AO 120 and AY 101 and HO 130. (3)

**ZO 466. Ornithology.** The physical structure, habits, ecology, geographical distribution, physiology, and evolution and conservation of birds. Emphasis on current topics in the scientific literature. Two lectures; two-hour lab; one Saturday field trip. Prerequisite: BI 154. (3)

**ZO 469. Vertebrate Adaptations.** Survey of vertebrate adaptations to various environments. Topics include mechanistic and morphological adaptations for feeding, thermoregulation, locomotion, reproduction, and sensory systems. One lecture; two two-hour labs. Prerequisite: BI 154. (3)

**ZO 478. Ichthyology.** An introduction to the evolution, zoogeography, taxonomy, and ecology of fishes, with particular reference to Missouri fishes. Two lectures; two-hour lab. Prerequisites: BI 154; ZO 200. (3)

# *University Personnel*

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# UNIVERSITY PERSONNEL

## ADMINISTRATIVE OFFICERS

### **Kenneth W. Dobbins (1991)**

President (1999)

B.S.A., U of Akron; M.B.A., Old Dominion U; C.P.A., Ohio; Ph.D., Kent State U.

### **Dr. Gerald McDougall (1993)**

Provost (Interim) (2013)

B.A., B.S., CA State U; M.A., Ph.D., Claremont Graduate School.

### **William R. Eddleman (1994)**

Vice Provost/Dean, School of Graduate Studies (2011)

B.S., M.S., U of MO-Columbia; Ph.D., OK State U.

### **Kathy Mangels (1995)**

Vice President, Finance and Administration (2006)

B.S., U of MO-Columbia; M.A., Southeast MO State U.

### **William Holland (2005)**

Vice President, University Advancement/Executive Director,

Foundation (2009)

B.S., MO State U.

### **Deborah Below (2002)**

Vice President, Enrollment Management and Student Success (2013)

Dean of Students (2013)

B.S., M.S.A., Southeast MO State U; Ph.D., U of MO-St. Louis

## DEANS AND DEPARTMENT CHAIRPERSONS

### **DONALD L. HARRISON COLLEGE OF BUSINESS**

#### **Dr. Charles McAllister, Interim Dean**

Dept. of Accounting, Dr. Leisa Marshall

Dept. of Economics & Finance, Dr. Rebecca Summary

Dept. of Management & Marketing, Dr. Judy Wiles

### **SCHOOL OF VISUAL AND PERFORMING ARTS**

#### **Prof. Rhonda Weller-Stilson, Director**

Dept. of Art, Prof. Caroline A. Kahler

Dept. of Music, Dr. Kevin Hampton

Dept. of Theatre & Dance, Dr. Phil Nacy

### **COLLEGE OF EDUCATION**

#### **Dr. Diana Rogers-Adkinson, Dean**

Dept. of Educational Leadership and Counseling,

Dr. Ruth Ann Roberts (Interim)

Dept. of Elementary, Early, and Special Education,

Dr. Julie Ray

Dept. of Middle & Secondary Education, Dr. Simin Cwick

### **COLLEGE OF SCIENCE, TECHNOLOGY AND AGRICULTURE**

#### **Dr. Chris W. McGowan, Dean**

Department of Agriculture, Dr. Mike Aide

Dept. of Biology, Dr. James Champine

Dept. of Chemistry, Dr. Philip Crawford

Department of Computer Science, Dr. David Probst

Department of Industrial & Engineering Technology,

Dr. Bradley Deken

Dept. of Mathematics, Dr. Tamela Randolph

Dept. of Physics & Engineering Physics, Dr. David Probst

### **COLLEGE OF HEALTH AND HUMAN SERVICES**

#### **Dr. Morris Jenkins, Dean**

Dept. of Aerospace Studies, Capt. Michael Holt

Dept. of Communication Disorders, Dr. Thomas Linares

Dept. of Criminal Justice & Sociology, Dr. Diana Bruns

Dept. of Health, Human Performance & Recreation, Dr. Joe Pujol

Dept. of Human Environmental Studies, Dr. Shelba Branscum

Dept. of Military Science, Capt. Tyson Mele

Dept. of Nursing, Dr. Gloria Green

Dept. of Social Work, Dr. Michael D. Parker

### **SCHOOL OF GRADUATE STUDIES**

#### **Dr. William R. Eddleman, Dean**

### **SCHOOL OF UNIVERSITY STUDIES**

#### **Dr. Francisco Barrios, Dean**

### **COLLEGE OF LIBERAL ARTS**

#### **Dr. Francisco Barrios, Dean**

Dept. of Communication Studies, Dr. Glen Williams

Dept. of English, Dr. Carol Scates

Dept. of Global Cultures and Languages,

Dr. Leslee Pollina (Interim)

Dept. of History, Dr. Wayne Bowen

Dept. of Mass Media, Dr. Jack Zibluk

Dept. of Political Science, Philosophy and Religion,

Dr. H. Hamner Hill

Dept. of Psychology, Dr. Leslee Pollina

### **ACADEMIC INFORMATION SERVICES**

#### **Dr. David Starrett, Dean**

### **ONLINE AND EXTENDED LEARNING**

#### **Dr. William R. Eddleman**

**Janet Adams (2004)**

Instructor of Nursing  
B.A., Beloit College; B.S.N., M.S.N, Southeast MO State U.

**Fred Adjei (2006)**

Instructor of Finance  
B.S., U of Cape Coast, Ghana; M.S., GA College and State U; Ph.D., U of MS.

**Beth Adkins (2000)**

Instructor of Geography  
B.A., Marshall U; M.A., U of KY.

**Greg Adkinson (2011)**

Director of Development/College of Science, Technology & Agriculture  
B.S., Ball State U.

**Quentonia Agnew (2010)**

St. Louis Career Specialist  
B.S., TN State U; M.A., Webster U.

**Nancy Aguinaga (2008)**

Asst. Professor of Elementary, Early & Special Education  
B.S., M.A., Ph.D., U of Central FL.

**Zahir Ahmed (2008)**

Executive Director, International Education & Services  
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**Leon C. Book (1972-2010)**

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**Norman Braasch (1963-1994)**

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**Alton Bray (1943-1984)**

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**Lawrence E. Breeze (1966-1989)**

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**Frank Chong (1968-2003)**

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**Jennie Cooper (1963-2001)**  
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**George Counts (1967-1997)**  
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**John V. Crampton (1965-1999)**  
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**Ada Cruce (1976-1997)**  
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**Beverly Cutsinger (1972-2000)**  
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**Mabel H. Daugherty (1967-1991)**  
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**F. Greg Dickey (1965-1988)**  
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**Jeanine Dobbins**  
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Literacy Intervention Program

**Bruce Domazlicky (1986-2013)**  
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**Alberta Dougan (1972-2006)**  
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**Max Drake (1983-1998)**  
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**James M. Drickey (1956-1991)**  
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**Anthony Duben (1983-2005)**  
Professor Emeritus of Computer Science

**Doyle Dumas (1957-1988)**  
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**JoAnne Dunham-Trautwein (1975-  
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**Darlene J. Dunning (1975-2005)**  
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**Larry J. Easley (1967-2007)**  
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**Johnson B. Egbert (1984-2011)**  
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**William W. Ellis (1979-2010)**  
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**William Ettlting (1969-2000)**  
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**Wayne Ewbank (1968-1997)**  
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**Ray G. Ewing (1983-2002)**  
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**Lane D. Fabrick (1976-2006)**  
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**Ernest K. Farmer (1967-1996)**  
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**Roy Farris (1974-2004)**  
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**Kathryn Farwell (1994-2012)**  
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**Phillip Finney (1976-2011)**  
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**Robert W. Foster (1967-1991)**  
Executive Vice President Emeritus

**Richard L. Francis (1965-2010)**  
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**Donald H. Froemsdorf (1960-1990)**  
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**Robert M. Gifford (1981-2003)**  
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**Victor H. Gummersheimer (1976-  
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**Harold W. Hager (1957-1995)**  
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**William F. Halcomb (1960-1985)**  
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**Doris Hamer (1965-1968; 1970-1993)**  
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**Larry R. Hamilton (1966-2002)**  
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**Tom Harte (1966-2000)**  
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**Bruce A. Hathaway (1982-2010)**  
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**Susan W. Haugland (1979-1999)**  
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**Helen M. Hays (1979-2003)**  
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**Leita Hensley (1977-1994)**  
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Disorders

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**M. Jane Stacy (1973-2008)**  
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**Carl T. Train (1967-2003)**

Professor Emeritus of Biology

**Steven Trautwein (1974-2005)**

Assoc. Professor Emeritus of Biology

**Benjamin Uzoaru (1982-2003)**

Associate Professor Emeritus of Economics and Finance

**Giulio Venezian (1989-2005)**

Associate Professor Emeritus of Physics and Engineering Physics

**Mary Ann Vogelsang (1962-1995)**

Professor Emerita of Communication Disorders

**Glenn Wade (1985-2001)**

Associate Professor Emeritus of Health and Leisure

**R. Graham Wagoner (1949-1980)**

Associate Professor Emeritus of Industrial and Technical Education

**Thomas George Wallgren (1981-2010)**

Assistant Professor Emeritus of Mathematics

**Arthur Wallhausen (1984-2008)**

Associate to the President Emeritus

**Michael A. Weatherson (1980-2011)**

Professor Emeritus of Communication Studies

**William J. Weber (1978-2007)**

Associate Professor Emeritus of Computer Science

**Thomas V. Wenczewicz (1966-2008)**

Assistant Professor Emeritus of Mathematics

**Joseph R. Werne (1972-2011)**

Professor Emeritus of History

**Billy Bob White (1966-1999)**

Assistant Professor Emeritus of History

**Marybeth White (1963-1965; 1966-1995)**

Assistant Professor Emerita of English

**Charles Wiles (1969-1970, 1971-2000)**

Professor Emeritus of Marketing

**C. Edwin Williams (1958-1959; 1963-1994)**

Professor Emeritus of Geosciences

**Carroll Williams (1960-1996)**

Assistant Professor Emeritus of Physical Education

**Mack A. Wilson (1988-2005)**

Associate Professor Emeritus of Agriculture

**Fred E. Wing (1967-1991)**

Associate Professor Emeritus of English

**E. Otha Wingo (1962-1992)**

Professor Emeritus of Foreign Languages

**Janie M. Wright (1962-1991)**

Assistant Professor Emerita, Kent Library

**Wendell Wyatt (1965-2000)**

Associate Professor Emeritus of Mathematics

**John Young (1968-1998)**

Professor Emeritus of Mathematics

**Jesse L. Yow (1966-1991)**

Assistant Professor Emeritus of Teacher Education

**Robert Zeller (1980-2008)**

Professor Emeritus of English

**James Zink (1979-1997)**

Professor Emeritus, Kent Library

**AFFILIATED MEDICAL TECHNOLOGY CLINICAL PROGRAMS**

**Cox Medical Centers (Springfield, MO)**

Medical Director:  
David M. Smid, M.D.  
Program Director:  
Douglas D. Hubbard, M.T. (ASCP)

**North Kansas City Hospital (Kansas City, MO)**

Medical Director:  
Mark Stivers, M.D.  
Program Director:  
Marisa J. James, M.A., M.L.S. (ASCP), C.M.

**Owensboro Mercy Health System (Owensboro, KY)**

Medical Director:  
Brian E. Ward, M.D.  
Program Director:  
Lisa Cecil, M.T. (ASCP), M.S.

**Southeast HEALTH (Cape Girardeau, MO)**

Medical Director:  
Mark Hosler, M.D.  
Program Director:  
Sheryl K. Schloss, M.A, M.L.S. (ASCP), C.M.

**Mercy Hospital (St. Louis, MO)**

Medical Director:  
Beverly B. Kraemer, M.D.  
Program Director:  
Terry Taff, M.A., M.T.(ASCP), S.M.

**St. John's Regional Medical Center (Joplin, MO)**

Medical Director:  
Susan Pintado, M.D.  
Program Director:  
Karen Adkins, M.A.Ed., M.T. (ASCP)





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