

UNDERGRADUATE  
BULLETIN  
2017-2018



# FALL SEMESTER 2017

*August 21-December 15*  
*Classes Begin - August 21*

Labor Day - no classes .....	September 4
Thanksgiving Recess .....	November 17 (close of classes)-November 27 (7 a.m.)
Final Exams.....	December 11-15
Commencement.....	December 16

# SPRING SEMESTER 2018

*December 18-January 12 (Wintersession)*  
*January 16 – May 11 (Regular Semester)*

Martin Luther King, Jr. Birthday (no classes) .....	January 15
Classes Begin .....	January 16
Spring Break .....	March 9 (close of classes) - March 19 (7 a.m.)
Easter Recess.....	March 29 (close of classes) – April 2 (7 a.m.)
Final Exams.....	May 7-11
Commencement.....	May 11

# SUMMER SEMESTER 2017

*First 4-Week Session: May 15-June 8*  
*Regular 8-Week Session: June 12 - August 3*

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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.

**NOTICE OF NONDISCRIMINATION/ANTI-HARASSMENT**  
Southeast Missouri State University is committed to providing a safe and civil learning and working environment for its faculty, staff, students, and visitors,

free from discrimination in any form. The University prohibits discrimination on the basis of race, color, ethnicity, religion, national origin, sex, sexual orientation, gender identity, age, genetic information, disability, or protected veteran status in any of its programs or activities. Harassment based on any of these classifications is a form of discrimination that also violates University policy. Inquiries concerning the application of these regulations to the University may be directed to the Vice President for Finance & Administration, Room 139, Academic Hall, One University Plaza, Cape Girardeau, MO 63701, (573) 651-2570.

Situations may arise in which students believe 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 faculty or staff which affects the student. Whenever 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 staff should be taken to the staff member's supervisor and then to the next higher supervisor.

It is the policy of Southeast Missouri State University to comply with Title IX of the Education Amendments Act of 1972. In the event of a complaint alleging sexual harassment discrimination, the student may contact the Office of Student Conduct, the Dean of Students, the Department of Public Safety or the University's Title IX Coordinator/Coordinator for Institutional Equity and Diversity.

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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 2017-2018

Cape Girardeau

Phone (573) 651-2000

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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.

## MISSION, VISION AND VALUES

**Mission:** Southeast Missouri State University provides student-centered education and experiential learning with a foundation of liberal arts and sciences, embracing a tradition of access, exceptional teaching, and commitment to student success that significantly contributes to the development of the region and beyond.

**Vision:** Southeast Missouri State University strives to be one of the nation’s most academically competitive regional comprehensive universities, recognized for excellence in education, engagement, research, and creativity.

**Values:** Student Success – Southeast Missouri State University values student-centered education and experiential learning through engaged and adaptive modes in and beyond the classroom in a safe, friendly, supportive environment that offers academic and career achievement for our students.

Excellence – Southeast Missouri State University values sustained commitment to quality teaching, research, and creative activities integrated into impactful academic and co-curricular programs that offer students a transformative educational experience.

Access and Diversity – Southeast Missouri State University values access to affordable, high-quality education with a diverse student body, faculty, and staff that respects and celebrates a diverse learning community in a global society.

Community – Southeast Missouri State University values an engaged campus learning community committed through shared purposes and service; sustained by respect, accountability, and adaptability; and strengthened through collaborative partnerships that extend the expertise and accomplishments of faculty, staff, students, and alumni beyond the campus.

## 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.

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*Southeast Missouri State University 2017-2018*

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- ACEJMC - ACCREDITING COUNCIL FOR EDUCATION IN JOURNALISM AND MASS COMMUNICATIONS
- AND/ACEND – ACADEMY OF NUTRITION AND DIETETICS/ACCREDITATION COUNCIL FOR EDUCATION IN NUTRITION AND DIETETICS
- ACS - AMERICAN CHEMICAL SOCIETY
- ASHA/CAA – 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
- CAEP – COUNCIL FOR THE ACCREDITATION OF EDUCATOR PREPARATION (formerly NCATE)
- CCNE - COMMISSION ON COLLEGIATE NURSING EDUCATION
- CEPR/PRSA – CERTIFICATE IN EDUCATION FOR PUBLIC RELATIONS/PUBLIC RELATIONS SOCIETY OF AMERICA
- COSMA – COMMISSION ON SPORT MANAGEMENT ACCREDITATION
- CSWE - COUNCIL ON SOCIAL WORK EDUCATION
- NASM - NATIONAL ASSOCIATION OF SCHOOLS OF MUSIC
- NAST – NATIONAL ASSOCIATION OF SCHOOLS OF THEATRE
- NAEYC – NATIONAL ASSOCIATION FOR THE EDUCATION OF YOUNG CHILDREN
- NCFR/CFLE – NATIONAL COUNCIL ON FAMILY RELATIONS/CERTIFIED FAMILY LIFE EDUCATOR
- NIBS – NETWORK OF INTERNATIONAL BUSINESS SCHOOLS
- NKBA – NATIONAL KITCHEN AND BATH ASSOCIATION
- NRPA/COAPRT - NATIONAL RECREATION AND PARK ASSOCIATION/COUNCIL ON ACCREDITATION OF PARKS, RECREATION, TOURISM, AND RELATED PROFESSIONS
- American Association of Collegiate Registrars and Admissions Officers
- American Association of Hispanics in Higher Education
- American Association of State Colleges and Universities
- American College Personnel Association
- American Kinesiology Association
- American Speech-Language-Hearing Association
- American Society for Engineering Education
- Association of College and University Housing Officers - International
- Association of Governing Boards of Universities and Colleges
- Association of Student Conduct Administration
- Association of Title IX Administrators
- Association for the Advancement of Sustainability in Higher Education
- Association to Advance Collegiate Schools of Business International
- Coalition of Higher Education Association Organizations
- College Board
- College and University Professional Association for Human Resources
- Commission on Collegiate Nursing Education
- Council for Accreditation of Counseling & Related Educational Programs
- Council for the Advancement and Support of Education
- Council for the Accreditation of Education Preparation
- Council for Opportunity in Education
- Council of Academic Programs in Communication Sciences and Disorders
- Council of Colleges of Arts and Sciences
- Council of Graduate Schools in the United States
- Council on Social Work Education
- Educause Learning Initiative
- Fulbright Association
- Higher Learning Commission
- Hispanic Educational Technology Services
- Illinois Thespian Conference
- International Association of Campus Law Enforcement Administrators
- Midwestern Higher Education Compact
- Missouri Academy of Science
- Missouri Association of Colleges for Teacher Education
- Missouri Association of Colleges of Nursing
- Missouri Association of Student Financial Aid Personnel
- Missouri Charter Public School Association

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

- American Association of Colleges of Nursing
- American Association of Colleges for Teacher Education
- Missouri Association of Colleges of Nursing
- Missouri Association of Colleges for Teacher Education
- Missouri Association of Student Financial Aid Personnel
- Missouri Charter Public School Association

- Missouri League for Nursing
- Missouri Thespian Conference
- National Association of College Admission Counseling
- National Association of College and University Food Services
- National Association of College Auxiliary Services
- National Association for Campus Activities
- National Association of Charter Schools Authorizers
- National Association for College Admission Counseling
- National Association of College and University Attorneys
- National Association of College and University Business Officers
- National Association of Student Financial Aid Administrators
- National Association of Student Personnel Administrators
- National College Access Network
- National Collegiate Athletic Association
- National Collegiate Honors Council
- Network of International Business Schools
- Ohio Valley Conference
- Quality Matters in Online Learning
- Society for Human Resources Management – Southeast Missouri Chapter
- Southeastern Theatre Conference
- Teacher Education Council of State Colleges and Universities
- United States Distance Learning Association

Donald G. LaFerla, Carthage  
Member, Board of Regents  
Term Expires January 1, 2019

Thomas M. Meyer, Cape Girardeau  
Member, Board of Regents  
Term Expires January 1, 2018

Bradley A. Jones, Affton  
Student Representative to the Board of Regents  
Term Expires January 1, 2018

Margaret Vandeven, Jefferson City  
Commissioner of Education  
Ex Officio

## **BOARD OF REGENTS, SOUTHEAST MISSOURI STATE UNIVERSITY**

Jay B. Knudston, Cape Girardeau  
President of the Board of Regents  
Member, Board of Regents  
Term Expires January 1, 2019

Kendra Neely-Martin, St. Louis  
Vice President of the Board of Regents  
Term Expires January 1, 2018

Phillip M. Britt, Kennett  
Member, Board of Regents  
Term Expires January 1, 2022

Edward P. Gargas, Dexter  
Member, Board of Regents  
Term Expires January 1, 2022

## **SOUTHEAST MISSOURI STATE UNIVERSITY ALUMNI ASSOCIATION**

With approximately 75,000 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.

Membership in the Alumni Association is free for all Southeast graduates and former students and includes a variety of benefits. 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. The alumni website, [www.iAMsoutheast.com](http://www.iAMsoutheast.com), and the Alumni Association’s social media websites allow alumni to stay personally and professionally connected to one another. These services, along with many others, are provided free to Alumni Association members of Southeast Missouri State University.

The Aleen Vogel Wehking Alumni Center at 926 Broadway is located in the building formerly occupied by Cape Girardeau’s First Baptist Church. During the fall and spring semesters, the Alumni Center is generally open from 8 a.m. to 5 p.m. weekdays. Spring break and summer hours for the center are 8 a.m. to 4 p.m. The center is closed during major holidays and also the week between the Christmas and New Year’s holidays. Alumni Relations Department may be reached at (573) 651-2259 or via email at [alumni@semo.edu](mailto:alumni@semo.edu).

For more information about 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:

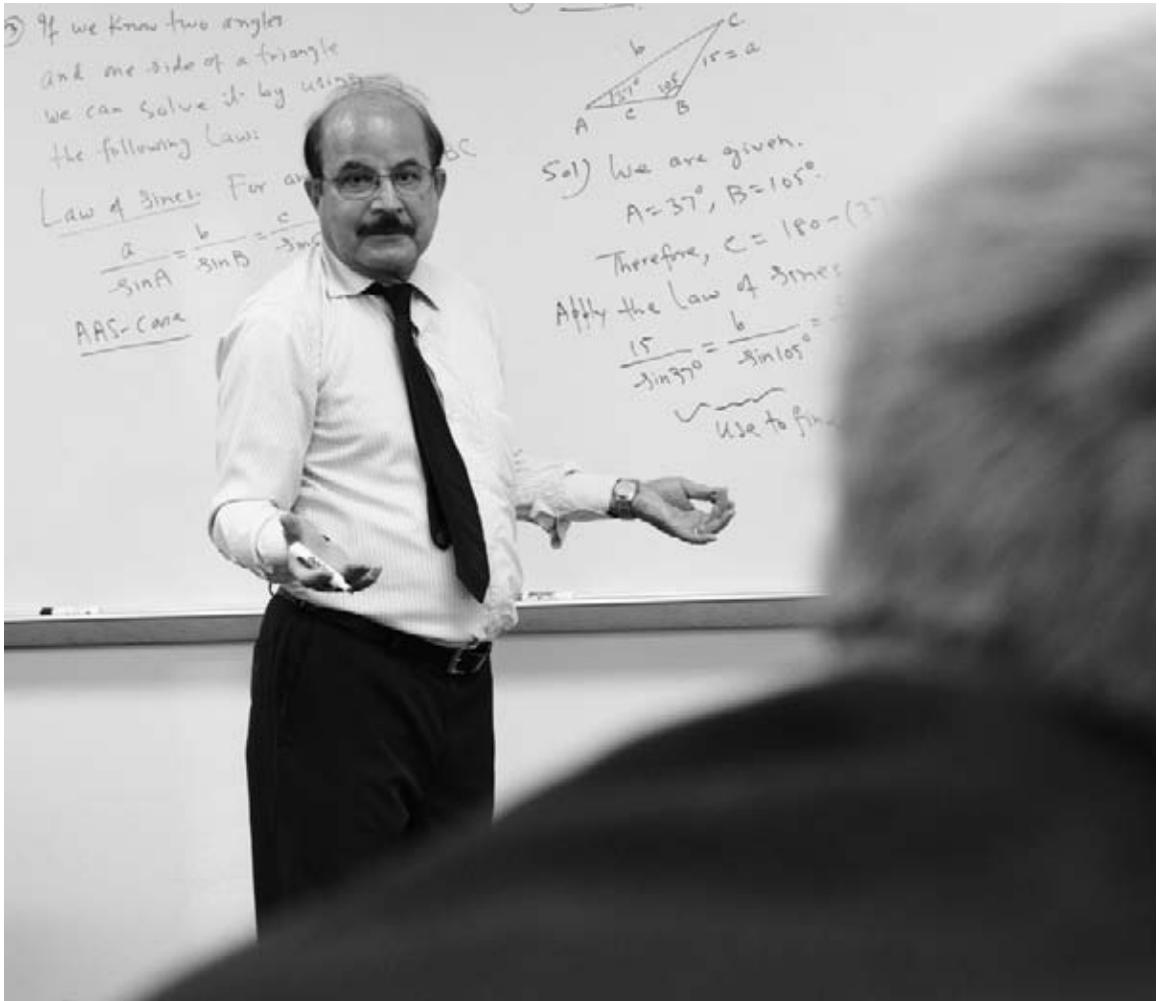
Scholarships and financial aid that help make a Southeast education even more affordable for future students;

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



## **ADMISSION**

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

Applicants for admission must complete an admission 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. Individuals with a felony/criminal background (pending charges and SIS included) are not allowed to live in campus housing facilities. 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 ACT/SAT assessment standards as well as high school grade point average and class rank. 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 high school equivalency (GED, HiSET) 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 Academic Appeals 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 Undergraduate Application for Admission. 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. The Director of Admissions may bring the appeal to the University Academic Appeals Committee for review. 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.

**Completion of University Studies Requirements:** In accordance with the Credit Transfer: Guidelines for Student Transfer and Articulation among Missouri Colleges and Universities, approved by the Missouri Coordinating Board for Higher Education (CBHE) in June 2000 and revised in April 2013, students who transfer from Missouri public colleges and universities and Missouri private institutions that adhere to these guidelines will be considered as having met the University Studies (general education) requirements if they complete:

- an Associate of Arts (AA) degree; or,
- an Associate of Arts in Teaching (AAT) degree; or,
- the Missouri 42 semester-hour block of general education credit; or,
- the designated general education program at the other institution, provided that the institution

certifies the student's completion of that program.

Students with an AA or AAT degree from an out-of-state institution accredited by a United States Department of Education recognized regional accrediting agency will also be considered as having met University Studies requirements at Southeast, with the exception of the Missouri Constitution Requirement.

While AA and AAT degree holders are considered as having met the University Studies requirements, students are required to complete University Studies classes required as part of the major area of study curriculum.

**Transfer Credit Appeals.** A student has the right to appeal a denial of transfer credit from an accredited 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 Academic Appeals Committee to review the appeal. If the student's petition is denied by the University Academic Appeals 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

### Admission of International First Year 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) Completing an online or paper application form for international students. (2) Submit the non-refundable \$40 application fee. (3) Send official scores from the Test of English as Foreign Language (TOEFL iBT), International English Language Testing States (IELTS), International Test of English Proficiency (iTEP) or Pearson Test of English (PTE) Academic. A TOEFL iBT score of 61 or higher, an IELTS total band score of 5.5 or higher, an overall iTEP level of 3.7 or higher and overall PTE score of 45 or higher is required for undergraduate admission. Applicants who lack the required English proficiency may apply for conditional admission to undergraduate study by first completing the University's Intensive English Programs (IEP). Students from the United Kingdom, Canada, Australia and New Zealand are exempt from English proficiency verification. (4) Submit official transcripts or mark sheets and official graduation

certificate or diploma from all high schools and colleges attended. These official documents must be submitted in sealed envelopes directly from the institution. Certified/attested copies by a notary or school official are acceptable in place of original documents. If the documents are not in English, certified English translations must also be included. Students are responsible for obtaining the required translations of the degree and transcripts. (5) Submit evidence of financial resources necessary to cover estimated costs of attendance for at least one year of study.

#### **Admission of International Transfer Students**

International students with transferable hours from another college or university are considered transfer students. Transfer students must meet all admission criteria as international first year students (see above) as well as submit official course descriptions. In addition, international students transferring from within the United States must submit a copy of their I-20 or DS 2019 and the SEVIS transfer form.

**Foreign Language Credit:** Non-native speakers of English who are pursuing a degree that requires a study of a foreign language may request their native language satisfy their requirement. Students should contact the department of Modern Languages, Anthropology and Geography for information and to obtain a waiver of the requirement.

#### **Admission of International Exchange Students**

International students in good standing who plan to participate in a short term exchange program from an approved partner institution, are admitted as exchange students through the Office of International Education and Services. The process includes (1) Completing the application provided to the student by the program coordinator at the partner institution (2) Application fee where applicable (3) Verification of English proficiency in accordance with the exchange agreement that governs the student's participation. (4) Submit any additional academic transcripts in accordance with the exchange agreement that governs the student's participation. (5) Submit evidence of financial resources necessary to cover the estimated cost of attendance for the duration of the exchange. The estimated cost of attendance will be in accordance with the exchange agreement that governs the student's participation.

#### **Admission of International Visiting Students**

In rare circumstances, prospective international applicants with lawful presence in the United States may enroll as a visiting student. Visiting students are classified as non-degree seeking students, so they are ineligible for non-immigrant visa support. But in all circumstances, visiting students must apply for admission to the university

in the same way that a degree seeking international student would. International visiting students who then decide to pursue a degree program must follow all admission procedures for the appropriate classification as outlined in the undergraduate 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. Undergraduate applicants who lack the required English Proficiency may be given conditional admission, whereby they must complete the IEP or submit the required official test score 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.

#### **SPECIAL ADMISSION**

**Visiting Students.** Students in good standing at other colleges and universities may enroll as visiting students. Visiting students are classified as non-degree seeking students, so they are not eligible for financial aid.

**Early College Credit Program.** The Early College Credit (ECC) program is designed to encourage high school students with 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 new student with fewer than 24 transferable college credit hours (at least one semester post-high school graduation). 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, 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 attendance at 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.

**Online Student Orientation.** Online student orientation is required for all new students entering an online-only degree program. It is designed to give students information on academic advising, services available for distance students, financial aid and billing, and more. The program is delivered through Moodle, the University's online learning management system, and is designed to familiarize students with the program they will use to complete much of their coursework. There is no charge to complete online orientation.

**International Student Orientation.** International First Step is the required orientation for all new first year, new transfer and visiting/exchange international students before they begin their academic career at Southeast. International First Step is held the week before school starts each fall and spring semester. This program includes immigration advising, cultural advising, safety and security, classroom expectations, academic advising and placement testing, enrollment in classes, financial and billing information, campus tours and student ID cards. A one-time \$65 non-refundable orientation fee, which covers all orientation events for international students, will be charged to the student's account after International First Step.

## 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 20 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 a preceptor. 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 standards 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 1<sup>st</sup> by noon to the ATEP Director's office located in Parker Hall 215F. Following admission into the ATEP,

completion of the program requires a minimum of five consecutive semesters.

**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 Center for Academic Advising-North (Polytechnic Building, room 301) 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: 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.

2. An overall cumulative grade point average (GPA) of 2.25.

In addition to satisfying prerequisites, students must complete at least 45 credit hours before 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, 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, 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:

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": BS 113; CH 181; EN 140; FN 235; MA134.

Completion of all developmental courses (if applicable).

## **Admission Procedures:**

1. Each student will complete a declaration of major form. When eligibility requirements have been met, an application for admission must be completed and submitted to the departmental office by February 28. The director of the Dietetics Program will determine if all admission criteria are met. The program director will send a letter of acceptance by April 1 with a copy of the admission policy to successful applicants. Those individuals who do not meet the admission criteria will be notified in writing and may reapply one additional time the following year by February 28.
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 requirements in the Undergraduate Bulletin.

**Graduation Requirements:** In order to receive a verification statement for completion of the required didactic curriculum, accredited by The Accreditation Council for Education in Nutrition and Dietetics, the accrediting agency for 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/approved by The Accreditation Council for Education in Nutrition and Dietetics and successfully complete the registration examination for dietitians.

**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, s/he 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 78 hours outside of the MC prefix.
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 59 prerequisite hours or to be enrolled in any of the still remaining courses at the time of application. These 59 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 59 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 2.80, and a "C" or higher in required courses listed below.

The Missouri Board of Nursing limits the number of students admitted each semester; therefore, admission is competitive and is based on meeting all admission requirements, including completion of all prerequisites, achievement of minimum GPA, and completion of the HESI A-2 pre-admission exam.

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

- Anatomy & Physiology I & II
- Chemistry (CH180 fulfills University Studies Physical Systems requirement)
- Microbiology
- Nutrition (FN235 fulfills University Studies Living Systems requirement)
- Psychological Development Across the Lifespan (PY220 fulfills University Studies Behavioral Systems requirement)
- Statistical Reasoning (MA155 fulfills University Studies Logical Systems requirement)
- Written Expressions (University Studies 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 387, s/he must also drop NS 387; if the student drops NS 387, s/he must also drop NC 387.)

A student who receives a grade below a "C" in an NS prefix course or a non-credit grade in an NC 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 which includes plans for success in the failed courses, must meet all current criteria for admission, and must have completed requirements and prerequisites for the requested level of entry. Readmission is dependent on record review, program space, and evidence that successful progress can be made toward degree completion. Requested readmission after two years out of the program has additional criteria. See the BSN Handbook for details or contact the Department of Nursing directly. 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. Transfer students who have one failure of a nursing course elsewhere must meet additional specific criteria. See the BSN Handbook for details or contact the Department of Nursing directly.

**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.

**Non-English Speaking Student Policy.** Any student wishing to declare nursing as a major, whose native language is not English, is required to take the TOEFL. The TOEFL score cannot be more than two years old. Minimum scores for admission to the Department of Nursing at Southeast Missouri State University are 100 cumulative score, and no less than 20 on individual scores for speaking, writing, reading and listening. Students with less than this required score are encouraged to obtain information about remediation with the Office of International Education and Services at (573) 986-6863. Students, whose native language is not English, who wish to transfer from another academic institution must show evidence of the required scores, or take the TOEFL prior to making application to the Department of Nursing for admission.

The student whose native language is not English is required to meet all other admission requirements of other students applying for admission to the nursing program.

**RN-BSN 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 students’ geographical location where they hold an RN license and have an approved RN mentor. Guidance is given by the course instructor by communicating online with the RN student and mentor. Qualified students who are licensed RN’s and hold a GPA of 2.80 or better and have completed a criminal background check are admitted every fall and spring semester until the class is full. Once RN-BSN students are enrolled in their

final semester of the program, an additional 34 hours of baccalaureate nursing credit will be added to their transcripts. 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 Southeast Online at (573) 651-2766 or access <http://www.semo.edu/nursing/rn/index.htm> for more information.

## 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, SW 222 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 Sport Management Director will send a letter of acceptance with copy of admission policy to successful applicants via email. Those individuals who do not meet the admission criteria will be notified in writing.

Students denied acceptance are permitted to re-apply for admission after they have met the admission criteria.

**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."

Each semester, grades will be reviewed by the Sport Management director. Any student failing to meet retention requirements will be notified by mail within two weeks 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.

**Accreditation:** Information pertaining to student learning and achievement in the sport management programs accredited by COSMA can be obtained by visiting the Department of Health, Human Performance and Recreation website at [http://semo.edu/health/sport\\_management.html](http://semo.edu/health/sport_management.html) or by contacting the Department chair, Dr. Joe Pujol at [jpujol@semo.edu](mailto:jpujol@semo.edu) or 573-651-2197.

## ADMISSION TO THE TEACHER EDUCATION PROGRAM

To be eligible for enrollment in the majority of courses offered by the College of Education and required for a teaching degree (BSE, BSFCSE, BME), students must be admitted to the Teacher Education Program (TEP). Applications can be found at [www.semo.edu/education/edu\\_prep/program\\_requirements.html](http://www.semo.edu/education/edu_prep/program_requirements.html). Students should apply for admission to the TEP upon having met the following entrance criteria:

1. 42 hours of coursework completed;
2. Passing scores on all sections of the Missouri General Education Assessment (MoGEA).

**The following course requirements met:**

1. A minimum grade of 'C' in CF/PY120 The Child (Elementary, Early, and Exceptional) or PY222 Development of the Adolescent (Middle and Secondary)
2. A minimum grade of 'B' in ED280 Introduction to Education as a Profession or ME222 Principles of Teaching Music.

3. A 2.75 cumulative GPA.

Missouri Educator Profile (MEP) results on file with the Office of the Associate Dean of the College of Education.

**Retention in the Teacher Education Program**

After admission, students must continue to meet the following requirements for retention in the TEP:

1. Demonstrate continued eligibility for interaction with schoolchildren by completing an FBI background check once a year. (A current background check is required for participation in all field and clinical experiences.);
2. Pass all professional education courses with a minimum grade of 'C.' A minimum grade of 'C' must be obtained in all prerequisite courses before a student can be enrolled in subsequent coursework. Students who, after two attempts, have still not earned at a minimum grade of 'C' in a particular professional education course will be removed from the Teacher Education Program.
3. Demonstrate behavior appropriate for teaching professionals. Appeals related to removal from the TEP must be submitted directly to the dean of the College of Education.

**Teacher Certification**

Upon completion of Southeast's Teacher Education Program an individual is eligible to be recommended for a Missouri Teaching Certificate if the student has the following:

1. A final 2.75 cumulative GPA
2. A final 3.0 GPA in both pedagogy and content coursework;
3. A passing score on the appropriate licensure exam(s) as required by the Missouri Department of Elementary and Secondary Education;
4. A passing score on the Missouri Preservice Teacher Assessment;
5. FBI background clearance from no earlier than one year prior to the date of the application for certification.

**Additional Notes:** 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 should be aware of the need to be eligible for admission to teacher education immediately upon transfer. They should contact the Office of the Associate Dean well in advance of the time of transfer. It is especially important that transfer students in the College of Education make arrangements for having MEP and MoGEA scores transferred to the University.

## 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. For students declaring either the BA in Theatre or Dance, the declaration of major form constitutes full admission into the program. For students declaring either the BFA in Theatre or Dance, the declaration of major form does not constitute full admission into the program; rather, students will first be declared as "pre-theatre and dance BFA" majors.

**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 high school, junior college or university GPA.
2. Audition or present a portfolio at the fall or spring BFA Admittance Auditions. For early admission, incoming students (freshmen or transfers) may audition the year prior to their first semester at Southeast; otherwise, they will audition their first year at Southeast. To apply, go to [http://www.semo.edu/theatreanddance/prospective/thd\\_scholarship.html](http://www.semo.edu/theatreanddance/prospective/thd_scholarship.html)

**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. Any course within the major with a grade of 'D' or 'F' must be repeated before any higher level CD class can be taken.
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. Fees are typically set annually and available by June for the upcoming year. For the most updated information, complete fee schedule, and policy/procedures, please visit [www.semo.edu/sfs](http://www.semo.edu/sfs) or contact Student Financial Services.

**Tuition/General Fees.** Tuition and general fees are required costs per credit hour and assessed for all courses to cover educational and other expenses not funded by the State of Missouri, as recommended by Student Government and approved by the Board of Regents.

**Additional Fees.** Students may incur additional fees for certain processes or courses to cover the cost of consumable supplies, specialized equipment, and/or other unique expenses. These may include, but are not limited to: admission applications fees, special course fees, program fees, electronic course access, online/webinar fees, graduations fees, etc.

**Housing Fees.** Room and board fees vary depending on the accommodations and meal plan chosen. For specific information on the variety of living options or

meal plans, contact the Office of Residence Life at (573) 651-2274 or visit [www.semo.edu/residencelife](http://www.semo.edu/residencelife).

**Textbook Rental/Purchase.** Undergraduates may rent most textbooks at a reduced fee per course. Graduate students are required to purchase textbooks.

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

1. Payment in full
2. Confirmed financial aid greater than all charges
3. Enrollment and 1st payment of an Installment Payment Plan (IPP).

Monthly statements are mailed when a balance is due. However, when time does not allow for USPS mailing, an email notification of a balance due (eBill) can be issued. Payments must be received by the end of business on the due date. Past due balance will prevent future enrollment, transcript requests, university services, and may result in late fees or other consequences.

Payment is accepted in the following forms: cash, check, ACH (online check), money order, or debit/credit card (Visa, MasterCard, Discover). Note: All debit/credit card payments are subject to a service fee of 2.5%, up to a maximum of \$50 per transaction.

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

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

Enrollment in the IPP is per semester. The first payment must be made at the time of enrollment and is available with each method of payment (i.e. online, in-person, etc.). IPP payment amounts calculate on all current semester charges and will vary from month to month if additional charges are incurred. The first payment must include the first installment, enrollment fee, and any prior semester balances.

**Late Payment/Consequences.** Failure to make on-time payment may result in late fees, (up to \$25 for active students) or class/housing contract cancellation. Students are obligated to promptly pay all charges owed, including reasonable attorney fees and collection costs (not to exceed 40%).

**Returned Check Fee.** All checks are subject to a \$20 Returned Check Payment fee. Students who have checks returned may lose check writing privileges and be subject to disciplinary action. Returned check payment must be redeemed (paid) by certified funds.

**Financial Probation/Suspension/Withdrawal.** If a student's account is past due, the student may be placed on financial probation. If after efforts to notify

the student appropriate action to pay the balance is not taken, the student may be placed on financial suspension and become unable to attend classes, take tests, or receive grades.

Failure to pay the balance and become reinstated into the courses (reinstatement fee applies) by an established due date will result in the student being administratively withdrawn from the University. As a result, the student will not receive any academic credit for the term, and will still be responsible for all charges due to the university.

**Refunds.** Students can withdraw from the University or drop specific classes using the web registration system until the published "Last Day to Drop a Class". Refunds for withdrawal/dropped class(es) are based on the date in which online or written withdrawal is processed. The following refund schedules for fees will apply:

**16-week Session (fall/spring)/  
12-week Session (summer)      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  
(Wintersession/Summer)      Fee 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%

Withdrawn 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.

If federal Title IV financial aid (i.e. Federal Loans, Pell Grant, etc.) was received, refunds can be delayed. The University is required by Federal regulations to return all or a portion of the federal funds received for students who withdraw 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.

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 Tuition, 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 semester.

**Online Account Access.** Using the online Account Summary (portal.semo.edu), students can choose to enroll in direct deposit for refunds, view account history, make payments, or grant/edit authorized user access, or view the 'Online Schedule Bill' for a printable statement. Authorized user access can be given to any person(s) the student approves (i.e. parent, spouse, guardian, etc.).

## **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.

**NOTE:** Although Academic Fresh Start provides academic forgiveness of prior cumulative GPA, the credit hours of prior courses attempted will still be considered in determining the PACE requirement for maintaining Satisfactory Academic Progress (SAP) for financial aid purposes. Contact Student Financial Services to determine the potential impact of Academic Fresh Start on future financial aid eligibility before submitting an appeal for Academic Fresh Start.

### **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 academic honesty 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 undergraduate or graduate bulletin. 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, images, 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 clarifying to

his or her classes 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 both 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.

### **Informal Resolution When Student Acknowledges the Violation**

1. 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.
2. 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 Procedure for Formal Resolution. Students enrolled in ITV or online courses who fail to respond to electronic correspondence from the faculty within five (5) business days will either receive academic sanctions or be referred for a formal hearing.
3. 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 or her action resolves the matter, then the matter is resolved.

4. 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.
5. 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.

**Informal Resolution When Student Does Not Acknowledge the Violation or Does Not Accept Faculty's Sanctions**

1. If the student does not acknowledge the violation or believes the faculty's sanctions are excessive, he/she can request a formal hearing.
2. Upon requesting formal hearing the student will follow Procedure for Formal Resolution.

**Formal Resolution When Student Acknowledges the Violation and Faculty Refers for Judicial Action:**

1. Faculty member determines whether the violation warrants referral to the department chairperson for judicial action.
2. 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 (5) business days following the initial faculty-student discussion.
3. 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) business days of receiving the faculty notification.
4. Within five (5) 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.
5. In addition to being required to complete the sanction or sanctions imposed by the faculty member in accordance with the guidelines in the Procedure

for Informal Resolution When Student acknowledges the Violation, 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.

6. In addition to the original faculty sanctions, the Chair can impose additional sanctions in accordance with the guidelines in the Procedure for Informal Resolution When Student Acknowledges the Violation.
7. 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).
8. The Judicial Coordinator will review documentation, meet with the student, and impose sanctions as warranted.

**Formal Resolution When 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. The faculty member will forward a written summary within five (5) business 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" found in the Student Handbook.
2. Within five (5) 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.
3. 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.
4. The Judicial Coordinator will immediately initiate

- written contact with 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 on-line or ITV courses may have this advisory person review the evidence and the student's response.
5. 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.
  6. The hearing will be conducted by the Department Chairperson in accordance with the standards provided in the University's "Code of Student Conduct" found in the Student Handbook. 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.
  7. After the hearing (or review of evidence and on-line 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 (5) business days.
  8. If the student is found not in violation of the academic honesty policy, then the case will be dismissed.
  9. 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 the Procedure for Informal Resolution When Student Acknowledges the Violation.
  10. 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.
  11. In addition to the original faculty sanctions, the Chair can impose additional sanctions in accordance with the guidelines in the Procedure for Informal Resolution When Student Acknowledges the Violation.
  12. The Department Chair may recommend failing the course, suspension, dismissal or expulsion if he or 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).
  13. The Judicial Coordinator will review documentation, meet with the student, and impose sanctions as warranted.
- Appeals:**  
Either the student or the faculty member may appeal the result of the formal hearing.
1. An appeal must be made within five (5) business days after the decision is rendered.
  2. Appeals must be in writing through e-mail, local mail or personal delivery.
  3. 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. The appeals process is not for retrying or rehearing a case. At each level, an appealed case merits being heard based on the following conditions.
    1. An excessive sanction when compared with previous sanctions for similar violations under similar circumstances. \*
    2. The discovery of significant new information relevant to the case.
    3. Procedural error regarding the student's rights involving error in the administration of judicial procedures by the faculty, Department Chair or Judicial Coordinator.
 Decisions made during the appeals process can result in one of the following.
    1. The sanction being altered based on a finding that the sanction is not consistent with past practice.
    2. A new hearing being granted based on new information.
    3. 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.

Full text of the policy and accompanying procedures can be found at [http://www.semo.edu/pdf/Provost\\_FacultyHandbook.pdf](http://www.semo.edu/pdf/Provost_FacultyHandbook.pdf)

## **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 Academic Appeals 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.

## **ADVISING**

Each student is assigned an advisor. Each school or college is represented by an advising center which coordinates advising in that school or college. Undeclared first year students are advised by the Center for Academic Advising-South. Students who have declared a major are advised by either a faculty advisor in their major department, or professional advisor in an advising center, depending upon major. Questions regarding advising or declaration of major should be directed to the appropriate advising center:

### **Academic Advising – North**

Seabaugh Polytechnic Building, Room 301

Telephone: (573) 651-5090

**Donald L. Harrison College of Business**

**College of Science, Technology & Agriculture**

### **Academic Advising – South**

Academic Hall, Room 057

Telephone: (573) 651-2007

**College of Education**

**College of Health & Human Services**

**College of Liberal Arts**

**School of University Studies**

### **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

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 by examination 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. Programs include Advanced Placement (AP), and the College Level Examination Program (CLEP), DSST, Departmental Examination (DE), Certified Administrative Professional (CAP) certification, and the International Baccalaureate Organizations (IBO) program.

Students may qualify for credit by examination as long as they have earned fewer than 90 semester hours and have at no point been enrolled in the course for which they desire credit. Students should not enroll in any course for which they plan to attempt credit by examination. For mathematics exams, students may not have been enrolled in any courses from the Mathematics Department prior to attempting credit by examination. For more information, visit [www.semo.edu/testing](http://www.semo.edu/testing) or contact Testing Services at (573) 651-2836.

It is the responsibility of the student to have official score reports sent to Southeast for processing. We cannot accept unofficial transcripts or transcripts issued to students.

**Advanced Placement (AP):** Credit for Advanced Placement Examinations will be granted for each examination receiving a score of 3 or above (4 or above on History exams). AP exams are administered through high schools. Students must have an official AP score report sent to Southeast to obtain credit. AP courses and equivalent Southeast courses and credit are listed below:

<b>AP Course</b>	<b>Institutional Course Satisfied</b>	<b>Credit Hours</b>
Art 2-D or 3-D	AR 198 Art Elective	3
Art History	AH 198 Art History Elective	3
Art, Studio:		
Drawing	AR 198 Art Elective	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
Economics, Macro	EC 225 Prin Macroeconomics	3
Economics, Micro	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
Geography, Human	GG 180 Cultural Geography	3
German Language	GN 100, GN 120 German Lang & Culture I & II**	3-6
Govt/Politics, U.S.	PS 103 US Political Systems***	3
Govt/Politics, Comparative	PS 104 Comp Political Systems***	3
History, United States	US 105, US 107 Am Hist I & II**	3-6
History, European	EH 101, EH 103 Early Euro Civ/Modern Euro Civ**	3-6
History, World	WH 198 World Civilization**	3
Latin: Veril	LT 198 Latin Elective	3
Music Theory	MM 101 Theories-Music & Cult	3
Physics I	PH 120 Intro Physics I	5
Physics II	PH 121 Intro Physics I	5
Psychology	PY 101 Psych Perspective/Hum Behr	3

Spanish Language SN 100, SN 120 Spanish Lang & Culture I & II\*\* 3-6

Spanish Literature SN 220 Hispanic Literature 3

Statistics 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:** CLEP exams are 90-minute exams and credit is awarded for each examination receiving a score of 50 or above (60 or above for EN 100). See chart for foreign language score requirements. Students may not receive CLEP credit for a course in which they have previously been enrolled. Students may not receive CLEP math credit if they have previously enrolled in any Southeast math course. To take a CLEP test, purchase the test online at <https://CLEP.collegeboard.org> then call Testing Services at (573) 651-2836 to schedule an appointment. You will be charged a \$20 sitting fee upon arrival for your exam. CLEP test titles 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 Administrative Professional.** Credit for the courses listed below is granted upon successful completion of the CAP rating and 12 hours in residence. Please email [testingservices@semo.edu](mailto:testingservices@semo.edu) with your name, student ID number and a list of courses for which you desire credit. CAP courses and equivalent Southeast credits are listed below:

Course	Course Title	Credit Hours
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

**DSST:** DSST exams are available for all Southeast students. To take an exam, make an appointment with Testing Services. At the beginning of your appointment, you will register and pay for the exam as part of the registration process. A debit or credit card is required to pay for the online exam. A sitting fee of \$20 will also be charged upon arrival for the exam. DSST test titles and equivalent Southeast credits are listed below:

Course	DSST Test Title	Credit Hours
BS 105	Environment & Humanity	3
CJ 100	Criminal Justice	3
CJ 110	Introduction to Law Enforcement	3
EC 335	Money and Banking	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/ QM 257	Principles of Statistics	3
US 225	History of the Vietnam War	3
US 354	Civil War and Reconstruction	3

### Local Credit By Departmental Examination (DE):

Each test is roughly equivalent to 1 two-hour final examination administered in a regular academic class. Call Testing Services at 573-651-2836 to schedule an appointment. Tests are available for the following courses:

Course	Course Title	Credit Hours
AD 101	Microcomputer Applications	3*
PS 220	Missouri Government	1

\* Fees apply

**International Baccalaureate Organisations (IB):**

If you attended an IB institution and have qualifying credit, you will need to have official score reports sent to Southeast. IB course titles and equivalent Southeast courses are listed below:

Course	Course Name	Credit Hours
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 and online. Check with your high school counselor or contact the Dual Credit office at (573) 986-6179.

Students who have earned college credit from other dual credit programs need to 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 department office or advising center. Students may change their major in the same manner.

**Harrison College of Business:** All of the following Bachelor of Science in Business Administration degrees should be declared in the Center for Academic Advising - North if admission requirements are not met: Accounting, Business Administration, Economics, Finance, Healthcare Administration, International Business, Management, Marketing and Pre-Business. If Admission to the previously listed programs has been granted, majors may be declared in the appropriate department office. Students with fewer than 24 hours wishing to declare the following majors should declare at the Center for Academic Advising - North: Economics, Healthcare Management, and Hospitality Management. If 24 hours or more are completed, these majors may be declared in the major department office.

**College of Education:** Declaration of major for Elementary, Early Childhood, Exceptional Child and Middle School is done at the Center for Academic Advising – South. Secondary education majors declare in the academic department. All education majors should confer with the education advisor in the Center for Academic Advising-South prior to enrollment in Block II.

**College of Health & Human Services:** Declaration of major for Pre-Nursing is completed in the Center for Academic Advising – South. 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 major department.

**Exploratory/Undeclared or Bachelor of General Studies – School of University Studies:** These areas are declared in the Center for Academic Advising – South.

**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 42 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. 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 electives 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

### (Degree Works Audit)

The official evaluation of a student's record stating the specific requirements for graduation is a Degree

Works audit. Degree Works 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 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

MA 050 Basic Math Skills. A minimum grade of 'NDC' in MA 050 is needed to satisfy the prerequisite for the next developmental mathematics course.

Any student with an ACT mathematics subscore of 15-21 is placed in a developmental mathematics course that is required for the Logical Systems mathematics course. The following table lists the developmental mathematics course which is required for each Logical Systems mathematics course.

Developmental Mathematics	Logical Systems Mathematics
MA 018	MA 128
MA 021	MA 218
MA 023	MA 123
MA 055	MA 155
MA 106	MA 134
MA 106	MA 137

**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 any required developmental courses or score at the appropriate levels 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 fall or spring semester are designated as full-time students. Students enrolled in 11 hours or less per fall or spring semester are designated as part-time students. Students enrolled in 6 hours of credit per summer semester are designated as full-time students. Students enrolled in 5 hours or less per summer 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/Withdraw from the University,” 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. 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, Academic Hall, 1st level.

**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. Eligibility for retroactive credit is based upon the first course in a specific language a student completes at Southeast Missouri State University. 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 Faculty Senate website, "Grade Appeals Procedures" found online at <http://www.semo.edu/facultysenate/bills/13-A-02.html>. (See the policy on academic honesty for process in cases of alleged academic misconduct and/or grade appeals policy.)

## GRADUATION

**Application:** To receive a degree or certificate, the student must apply for graduation for the semester in which they complete requirements. Applications must be submitted according to deadlines published on the commencement website, and may be submitted through the portal, or by visiting <http://www.semo.edu/commencement>. Every effort will be made to notify students of unmet requirements in time for changes to be made in the student's enrollment schedule; however, the final responsibility for enrolling in courses which fulfill graduation requirements is the responsibility of the student. Students and their advisors should review Degree Works and address any unmet requirements before applying for graduation.

**Commencement:** Commencement exercises are held at the conclusion of the fall and spring semesters for the purpose of celebrating students' impending graduation. An approved candidate for graduation may participate only in the commencement exercise

corresponding to the semester in which the student completes all requirements, with one exception. Because there is no summer commencement exercise, students who are completing requirements in the summer may opt to participate in the preceding spring commencement, or the following fall commencement, provided they meet deadlines published on the website: <http://www.semo.edu/commencement>. When students apply for summer graduation, they may indicate their commencement exercise preference on the application.

**Fee:** A non-refundable fee is charged to graduating students to cover the administrative costs associated with the awarding of the degree. This fee is charged to the student's account when the student is approved as a candidate for graduation. Additional late fees may apply if the candidates fails to complete required information in a timely fashion.

**Requirements:** Students are solely responsible for knowing and meeting graduation requirements, which are listed in this Bulletin. Students cannot graduate with any incomplete grades, including elective courses which may or may not be required for degree completion, on their record.

Questions regarding the application process, graduation requirements, fees, the commencement exercise and other topics related to graduation or commencement should be directed to graduation personnel in the Office of the Registrar.

## HONORS

Dean's Honor List. Students who meet the following criteria will be eligible for the Dean's Honor List:

1. Full time student and complete 12 hours of standard graded (A-F) credit hours;
2. Achieve a semester GPA of 3.75 or higher;
3. Achieve no grade less than a 'B';
4. Receive no failing grades in any enrolled course, including credit/no credit or pass/fail courses.

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.

**Academic Distinction in the Department of the Major.** To be eligible to apply for graduation with academic distinction in the department of the major, 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 graduate with this honor, students must initiate a scholarly paper or project prior to the graduation semester, and satisfy criteria as outlined in the Faculty Handbook ([www.semo.edu/facultysenate/handbook/](http://www.semo.edu/facultysenate/handbook/)). All projects must be initiated and approved prior to the first day of the graduation semester. Students interested in this program should contact the chairperson of their department for additional information.

**Graduation with Honors.** Students with a qualifying cumulative GPA of at least 3.5 may be eligible to graduate with honors. To compute the qualifying cumulative GPA, a student's overall cumulative GPA, as reported on their transcript, is re-calculated to include the original grade(s) and credit hour(s) for any course(s) that have been repeated. 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.

For purposes of recognition at commencement, the GPA is based on the student's honors GPA at the beginning of the semester in which the student is participating in commencement. Grades earned during the commencement semester will not be considered in determining eligibility for recognition at commencement. However, all students who qualify to have this honor awarded, including those whose GPA was not sufficient until the end of their final semester, will have this honor recorded on their transcript and diploma.

**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.

## 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 needs, aspirations and motivations of students with outstanding intellectual and creative abilities, the Jane Stephens Honors Program underscores Southeast Missouri State University's commitment to quality and excellence in matters of knowledge, creativity and leadership. The

goals of the Jane Stephens Honors Program reflect this basic commitment. These goals are:

- 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.
- 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.
- To encourage an intellectual perspective by providing a model of academic endeavor that emphasizes analytical thought, insight into the methodologies of different disciplines and cross-disciplinary synthesis.

### **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 Jane Stephens Honors Program. At the same time, honors courses meet the content requirements of their non-honors counterparts.

To be eligible for admission to the Jane Stephens Honors Program, students with less than 15 semester hours of college credit must have a cumulative high school grade point average (GPA) of at least 3.5 on a 4.0 scale (or its equivalent) and an ACT composite score of at least 27 (or its equivalent). Students who do not meet the initial criteria, and transfer students, may be admitted to the Jane Stephens Honors Program after they have completed 15 semester hours of college credit with a cumulative college GPA of 3.5 and before they have completed 75 credit hours. Students with more than 75 credit hours completed are required to contact the honors program to determine their ability to complete the program before they will be admitted.

For transfer students, Southeast will accept a maximum of 6 semester hours of honors credit from an accredited college or university.

To remain active in the Jane Stephens Honors Program, students must maintain a GPA of at least 3.5. Additionally, students must complete 3 semester hours of honors credit by the time they have earned 30 credit hours, 9 semester hours of honors credit by the time they have earned 60 credit hours, 18 semester hours of honors credit by the time they have earned 75 credit hours, and 21 semester of hours of

honors credit by the time they have earned 90 credit hours. To request an exception to the honors credit hours requirements, students should contact the honors program directly.

The requirements to complete the Jane Stephens Honors Program are 24 semester hours of honors credit with 6 hours at the upper division level, a senior honors project (HN 499), and a minimum cumulative GPA of 3.5.

### 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 or 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.

### 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, 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 42 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.

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 University Studies program.

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 42-hour University Studies program.

The School of University Studies is located in Memorial Hall, room 210, (573) 651-2783 and online at <http://www.semo.edu/ustudies>.

### **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



## ACADEMIC SUPPORT CENTERS

The mission of the Academic Support Centers (ASC) is to enhance the academic achievement and educational attainment of all students. Academic Support Centers include programs/services for underrepresented populations (first generation, low-income students with disabilities or U.S. ethnic minority students) and academically at-risk students. The programs span the educational scope from pre-college to undergraduate and graduate studies. The office can be reached by calling (573) 986-6135 or visit the website at [www.semo.edu/asc](http://www.semo.edu/asc).

### Educational Access Programs

The purpose of Educational Access Programs (EAP) is to enhance the quality of the educational experience for minority students in particular, and all students in general, through programs, services, advocacy, and referral to appropriate resources. EAP is actively involved in the enrollment development functions of the University with respect to recruitment and retention of minority students. In addition, EAP responds to the need to expose all students to, and involve in, a wide range of multi-cultural activities and initiatives. EAP fulfills its purpose by working in cooperation with other administrative and academic units, student organizations, and the Cape Girardeau community. 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 provide 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. Retention Services can be reached by calling (573) 651-2273. Tutorial Services can be reached by calling (573) 651-2861. Or visit the website at [www.semo.edu/lap](http://www.semo.edu/lap).

### 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) 986-6135 or visit the website at [www.semo.edu/mcnair](http://www.semo.edu/mcnair).

### 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. The program provides academic services and a supportive environment to increase the persistence and

graduation rates of eligible students and to foster an institutional climate that encourages their success. The office can be reached by calling (571) 651-2512 or visit the website at [www.semo.edu/sss](http://www.semo.edu/sss).

## 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, room 100D. 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.

## 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 52 OVC regular-season championships and 18 OVC tournament titles during its first 25 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 HEALTH CLINIC

The Campus Health Clinic, through a partnership with SoutheastHEALTH, health care professionals provide health treatment including physical exams, laboratory services, immunizations and allergy shots, medical procedures, prescription services, well women exams and assessment and treatment of illness/injuries for Southeast Missouri State University students, faculty, and staff. Both appointments and walk-in patients are seen. Charges for services can be billed to insurance or applied to one's student account. Additional details can be found at <http://www.semo.edu/healthclinic/>.

### CAMPUS LIFE

www.semo.edu/campuslife  
(573) 651-5120

### University Center

www.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 Panda Express 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.

### CENTERS FOR ACADEMIC ADVISING & CAREER SERVICES

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

**Academic Advising:** Academic advising is provided for students with majors in the Colleges of Education, Health & Human Services, Liberal Arts and the School of University Studies in the Center for Academic Advising – South located in Academic Hall. Students with majors in the Harrison College of Business and the College of Science, Technology and Agriculture are advised in the Center for Academic Advising – North located in Seabaugh Polytechnic Building.

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 Advising:** Career counselors 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 counselors keep current in career and employment trends and work collaboratively within the Center for Academic Advising & Career Services making appropriate student referrals within the Center and to other resources across campus.

**Career Services:** Professionals in Career Services 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 Services 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 Services also coordinates employment opportunities available to students, graduates, and alumni through an online career management system.

### COUNSELING AND DISABILITY SERVICES

Counseling Services provides confidential services to all enrolled students and is located on the first floor of Dearmont Hall Wing B1 (northeast corner). 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). Substance Abuse Prevention and Education (SAPE) Services, located in Dearmont Hall Wing B1, 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 [semo.edu/SAPE](http://semo.edu/SAPE).

Campus Violence Prevention Program (CVP). The Campus Violence Prevention Program, located in Dearmont Hall Wing B1, raises awareness and promotes the primary prevention of interpersonal violence to create a safe campus environment. The Campus Violence Prevention program Education and Outreach Coordinator plans and coordinates programs (i.e. trainings, workshops) to educate students, faculty, and staff on the realities of violence, sexual assault, and stalking. CVP provides direct support to students who experience sexual assault and interpersonal violence and informs students of their rights regarding reporting instances of violence. CVP ensures access to counseling, victim advocacy, legal assistance, and supportive services available on campus and in the community. The program serves a vital role in promoting bystander intervention and educating the campus to prevent interpersonal violence. The Campus violence Prevention program can be reached at (573) 986-6899 or emailing [cvpp@semo.edu](mailto:cvpp@semo.edu) or online at [semo.edu/ucs/violence-prevention/index.html](http://semo.edu/ucs/violence-prevention/index.html).

Disability Services. Disability Services, located in Dearmont Hall Wing B1, is the institutionally recognized program designated to provide both federally mandated services as well as proactive services for students with disabilities, by ensuring equal access to curricular and co-curricular opportunities. Students with disabilities are encouraged to register with Disability Services if they wish to use academic accommodations while enrolled at Southeast. By providing leadership, advocacy, resources, mediation, and guidance to students with disabilities, Disability Services assists students with identifying barriers to their success and thus identifying ways to address those barriers.

Disability Services collaborates with students, faculty, staff and community members to create useable, equitable, inclusive and sustainable learning environments. The programs can be reached by calling (573) 651-5927 or emailing [ds@semo.edu](mailto:ds@semo.edu).

Additional information may be accessed through the website [semo.edu/ds](http://semo.edu/ds)

## **DEAN OF STUDENTS**

The Dean of Students serves as a student advocate

within the University community and to the general public. This advocacy includes providing individual support and guidance to students in need. The Office of the Dean of Students provides education to reduce the risk of drug and alcohol abuse and sexual violence among college students. The Statement of Student Rights and Code of Student Conduct is published and administered by the Office of the Dean of Students. Students are encouraged to contact the Dean of Students when they will be absent from class due to a substantial personal emergency. The Dean of Students Office will send a Temporarily Out of Class notice to faculty on behalf of the student. This does not serve as an excused absence from class nor does it excuse the student from the course requirements. Students will be responsible for following up with their faculty members to make arrangements for making up missed coursework. It is up to each individual faculty member to determine if missed work will be allowed to be "made up." The Office of the Dean of Students can be reached by calling (573) 986-6888.

## **EXTENDED LEARNING**

Extended Learning coordinates all for-credit programming offered away from the Cape Girardeau campus, including all learning activities at the regional campuses in Kennett, Malden and Sikeston, with a delivery site in Poplar Bluff (on the Three Rivers College campus), as well as the Cape College Center. A wide variety of undergraduate degree programs are available at the regional campuses, including General Studies, Agribusiness, Child Development, Criminal Justice, Interdisciplinary Studies, Psychology, Social Science, Early Childhood Education, Elementary Education, Exceptional Child Education, and Middle School Education. Coursework is delivered face-face, ITV, online and blended which incorporates online and face-face delivery. For more information, visit the website at <http://www.semo.edu/extlearn/>.

## **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. In order to be considered for priority packaging, the FAFSA should be received by the processor by February 1. To meet this deadline, submit your FAFSA electronically by

mid-January. 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.

**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 the Student SS tab. A link will be provided for AcademicWorks. 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 "Admissions" or "Current Students" and then "Student Financial Services" and then "Financial Aid." 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 February 1.

**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 February 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. Enrolled students interested in student employment can view job openings through the Career Linkages website [www.semo.edu/careers](http://www.semo.edu/careers).

**Verification.** Often, FAFSA records are selected to be verified by the Department of Education and the University. 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 "Current Students" and then "Student Financial Services" and then "Financial Aid."

## GRADUATE STUDIES

The primary purposes of graduate study are to

provide opportunities for advanced study of an academic discipline and advanced preparation 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, TOEFL, or Graduate Management Admission Test. (See the Graduate Bulletin at [www.semo.edu/gradschool](http://www.semo.edu/gradschool) for details.)

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.

## **INTERNATIONAL EDUCATION AND SERVICES**

The mission of the Office of International Education and Services (IES) is to support the international students, scholars, and study abroad participants, as well as their families, from the time of recruitment and application through the completion of their academic program at Southeast. IES provides a comprehensive program of assistance to students, their families, and the campus community through immigration and personal advising, programming and outreach services, as well as study abroad programs. The International Center is located at the corner of Dearmont Circle and College Hill, immediately behind Dearmont Hall. Walk-ins are welcome or the office can be reached by calling (573) 986-6863. Additional information is available at [www.semo.edu/international](http://www.semo.edu/international).

### **Intensive English Program (IEP)**

The Intensive English Program is ESL academic program operating in five eight-week sessions during the year, providing college preparation in English language listening and speaking, reading, writing and grammar. Conditionally admitted students may enter undergraduate studies upon their successful completion of the IEP or by submitting the required TOEFL or IELTS score in a future semester. The Graduate Conditional Admission Program (Grad CAP) is designed to prepare qualified students in graduate level research and communication skills in the English language. Students take one semester-long reading course and one writing course. Upon completion of the Grad CAP coursework with a grade of A or B, a student may enter the graduate school, and certain graduate programs, in lieu of satisfying a standardized language

test requirement. Additional information is available at [www.semo.edu/international/iep](http://www.semo.edu/international/iep).

### **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). Additional information is available at [www.semo.edu/studyabroad](http://www.semo.edu/studyabroad).

## **KENT LIBRARY**

Kent Library is the academic heart of Southeast Missouri State University. The library currently houses over half a million print volumes, journals, magazines, newspapers, DVDs, video games, rare books and more. In addition to physical holdings, the collection also includes thousands of online journals, eBooks and streaming videos.

Best sellers, new books, magazines and newspapers are on the main floor, right next to the circulation desk. The third floor is home to a large student computer lab with a hundred computers. Kent Library's large collection of books and government documents is located on the fourth floor.

Librarians work with departments across campus and help students learn information skills. Library faculty teach classes on how to effectively find and evaluate information. In addition to this instruction, students can get one-on-one research assistance, in person, over the phone, through an instant chat service, or by email from the Kent Library Reference Desk.

Kent Library is also home to other units that support a range of students' interests and needs. The Heather MacDonald Greene Multimedia Center provides access to 3D modelling and printing, a one-button recording studio, Adobe Creative Suite software, video and audio production and editing, and offers expert assistance for students' media creations. The Instructional Materials Center houses classroom resources and children's materials, as well as video games, equipment, movies and audiobooks. Special Collections and Archives preserves and curates rare and unique, local artifacts and

documents relating to the university and the region. The Rare Book Room, on the main floor, contains a world-class literary collection on William Faulkner and materials from the 13th through the early 20th centuries.

Kent Library works with the School of Visual and Performing Arts to provide access to library materials and services at the River Campus. The Arts Resource Center (ARC), located in the River Campus Seminary building, provides access to a variety of musical scores, a large collection of sound recordings, scripts, plays and books. Kent Library materials are easily available at the ARC, so students have access regardless of where they study.

Kent Library supports student success, and to this end, provides access to materials outside of Kent Library through a catalog shared with other Missouri Libraries as well as access to materials around the world through Interlibrary Loan.

Kent Library, by blending current technology and online resources with traditional library services and collections, remains a central part of Southeast Missouri State University and an essential service to students.

### **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 transitioning service members to the academic setting, counseling and processing VA educational benefits, tuition assistance, and the 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. Their mission is to serve all military-affiliated students and their families. The OMVS is located in the University Center, room 302, and 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 Office of the Registrar is charged with implementing academic policies with regard to program and degree requirements; the maintenance and integrity of the student database; the maintenance of the Master Catalog; the maintenance of the Master Schedule; the production of the Undergraduate and Graduate Bulletin; the maintenance of the degree audit program;

evaluation of domestic and international credit for transfer recording of grades; management of the enrollment and withdrawal processes; meeting the student reporting needs of other offices; implementation of academic policies with regard to graduation requirements, course requirements, and major and minor requirements; processing of applications for graduation; determination of eligibility of applicants for graduation; coordination of commencement activities; verification of eligibility of athletes to participate in varsity sports; and verification of courses taken, grades and grade point averages and degrees completed.

For additional information, contact the office at (573) 651-2250.

### **ONLINE LEARNING**

The Office of Online Learning has a leadership role in the development, implementation, and marketing of high-quality programs and course offerings taught in a variety of modes. The office consists of two divisions: Southeast Online Programs and the Center for Scholarship in Teaching and Learning.

Southeast Online Programs (SEO) works to help ensure the best possible experience for prospective and current online students. SEO staff work to meet the needs of online students from first contact through application, admission, registration, and advising through to graduation. SEO also collaborates with academic departments to optimize the availability of course offerings for online majors.

The Center for Scholarship in Teaching and Learning (CSTL) offers comprehensive services to faculty to promote effective course design and teaching in courses offered in all modes, including face to face, online, blended, ITV, and webinar. The CSTL organizes and delivers a wide variety of workshops and presentations on pedagogy and technology for faculty. It oversees the administration and interpretation of the IDEA student evaluation, and delivers the annual week-long Teaching Enhancement Workshop for new faculty. It comprises a staff of instructional designers, a faculty associate, the Office of Instructional Technology, and the Office of Media Services.

The CSTL's Instructional Designers work individually and as part of development teams with faculty content experts to develop effective learning environments, both online and face-to-face. They oversee the University's Quality Matters program, certifying quality in online courses and assisting faculty in achieving certification.

The Office of Instructional Technology (OIT)

supports faculty with assistance in the implementation and effective use of pedagogical technologies. OIT's Learning Management System administrators install, maintain, and upgrade LMS and related software on Southeast servers for faculty and student use. The OIT's student technicians provide one-on-one assistance to faculty, answering questions about instructional technology and helping solve technical problems.

The Office of Media Services designs, installs, and maintains audio and video transmission and recording equipment for pedagogical use by faculty. The office oversees the networks and systems required for delivery of ITV courses, and offers audio/video recording and presentation services to faculty both on the main campus and at the regional campuses. The office also trains faculty in the use of ITV equipment.

## PROGRAM CENTERS

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 focuses on academic experiences and student learning, both curricular and co-curricular, by presenting and demonstrating principles and practices promoting the entrepreneurial spirit as well as providing a forum for students to gain valuable engagement with these activities.

The Greene Center is an academic entity housed in the Harrison College of Business, but with a scope including various academic programs from all five colleges at Southeast. A vital part of the center is Catapult Creative House located on Broadway. It is an on-going creative lab and entrepreneurial space for student entrepreneurs, student-run businesses and student artists, operating under the mentorship of faculty. Catapult is open for business at least 40 hours per week, First Friday

evenings, and for special events.

The **CENTER FOR REGIONAL HISTORY** serves the University and the region through the promotion and interpretation of the history of southeast Missouri. The Center is involved in a variety of public outreach programs which serve to preserve, present, promote, and publish the history of the region. Members of the Center staff provide assistance to historical societies, schools, museums, and a number of city, county, state, and national agencies. The Center not only provides a forum for engaging the community and creating links between people, but also offers a wide variety of consultative services, cultural resource management, and program planning in regional and local history. Administered within the College of Liberal Arts, the Center serves as a support unit for student, faculty, and community 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 an 18-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.

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 of student parents, faculty and staff. Accessible, affordable, quality childcare makes it possible for student parents, faculty and staff to remain in school and at work. The Centers also serve the University as a teacher training facility for students going into the early care and education profession. 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.

### PUBLIC SAFETY

**PUBLIC SAFETY.** The University maintains a staff of police officers in the Department of Public Safety, separate from city and state police agencies. University police officers are commissioned by the Board of Regents under RSMo 174. They also hold commissions from the City of Cape Girardeau. Officers protect the safety of people and property on the University campus, as well as the security of University facilities. 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; (573) 651-2215. Business hours are 8:00 a.m.-5:00 p.m., Monday-Friday. The lobby is open and emergency services are available 24 hours a day, seven days a week.

**PARKING.** The University maintains a number of streets, parking lots, and sidewalks that are separate from public streets and thoroughfares in the City of Cape Girardeau. All vehicles of students and employees operated and parked on University property must be registered with the Department of Public Safety's Parking Services and display a current parking permit. Premium parking is available in preferred parking lots; while additional parking is available, at a reduced cost, in perimeter lots. Application for preferred parking may be made online in July proceeding the academic year. Perimeter parking is available anytime during the semester. Additional information about parking services is available by contacting the Department of Public Safety-Parking Services or by visiting <http://www.semo.edu/parking/index.html>.

**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. The shuttle service is available to faculty, staff, students and guests. All busses are accessible to passengers with disabilities and bus routes also provide accessible routes across campus and to the River Campus.

### RECREATION SERVICES

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

The Recreation Services Department offers recreation and fitness opportunities for its students, faculty, and staff members. Our Student Recreation Center, located on the North side of campus adjacent to the Show-Me Center, has an expansive weight room and cardiovascular training areas, including a separate dumbbell room, TRX/Plyometrics room and Abs room. This facility also features five basketball courts, an indoor running

track, and houses the Student Aquatic Center. The Student Aquatic Center includes a dedicated lap pool, a leisure pool (featuring a rock climbing wall, rope swing, zip-line, basketball, and volleyball court) and a spa.

The Department of Recreation Services also offers a multitude of programs to enhance one's fitness and overall well-being. Our Intramural program offers many individual and team sports, which take place in the evenings to accommodate class schedules. There are also several different club sport teams, competing both locally and nationally. Our fitness and wellness program offers a wide variety of group fitness classes, accommodating all skill and intensity levels. We also have personal trainers for those who want one-on-one or partner training. Our department also hosts several fun special events throughout the year. Information may be obtained from the main office, located in the Student Recreation Center, or by calling (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! Housing options include community and suite-style living arrangements, and learning communities such as honors, education, business, and military/veteran students.

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 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 Memorial Hall, room 103, 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 [www.semo.edu/writing](http://www.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 supports the mission of Southeast Missouri State University by providing high quality assessment services to students and the community. Fulfilling our mission includes providing exams in a professional, secure, and accessible environment that supports academic success, promoting an atmosphere that encourages students, faculty, staff, and community members to readily utilize our numerous services, offering the most advanced testing options to assist individuals as they pursue academic and professional fulfillment, and creating optimal test environments in compliance with the National College Testing Association (NCTA) Professional standards and Guidelines.

Testing Services provides numerous national and state exams such as GMAT, LSAT, HiSET, MoGEA, and Missouri Content Assessments, proctoring for on-line courses, and accommodated testing for individuals registered through Disability Services. For more information, visit [www.semo.edu/testing](http://www.semo.edu/testing) or call (573)651- 2836.

### **UI 100 Experience**

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) 651-2507 for further details about the program.

## **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://www.semo.edu/stuconduct/>. The office can be reached by calling (573) 651-2264.

## **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, Redhawks Grill, Sono, Wild Greens, Panda Express and Papa John's Pizza), Rowdy's in the Towers Complex, Kaldi's Coffee, Subway, Houck's Place, St. Vincent's Commons, 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**

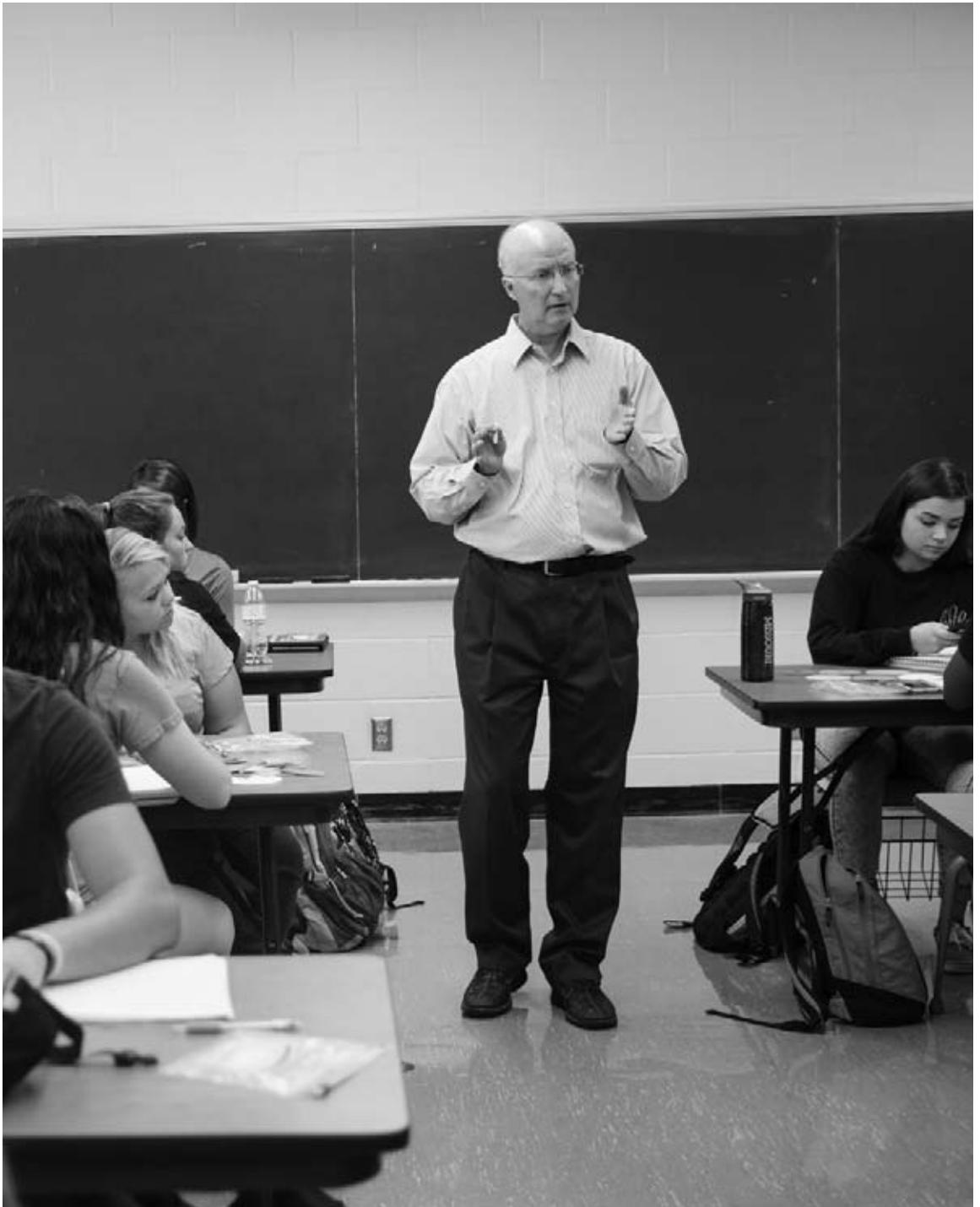
Southeast Missouri State University Press, founded in 2001, serves both as a first-rate publisher in our underpublished region and as a working laboratory for students interested in learning the art and skills of literary publishing. The Press supports a minor in Small Press Publishing for undergraduate 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 - 6:00 pm and Friday, 8:00 a.m.-5:00 p.m. Students interested in attending Southeast should contact the Office of Admissions, Academic Hall, room 100D, (573) 651-2590.





# College Information

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

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**Gary Johnson, 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.

The Donald L. Harrison College of Business at Southeast Missouri State University provides contemporary studies in business and related fields. The BSBA degree offers majors in accounting, business administration, economics, entrepreneurship, finance, healthcare administration, international business, management and marketing. The college also offers a BS degree in healthcare administration and a BS degree in hospitality management. At the graduate level, the Harrison College of Business offers the Master of Business Administration (MBA), the Master of Science (MS) in Management and the Master of Science (MS) in Healthcare Management degree programs. All degree programs are 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 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.

The MS degree in management is designed for working adults who have completed a bachelor's degree and wish to strengthen their management and supervisory skills. The MS degree in healthcare management is designed for the individuals with a bachelor's degree who are working in the healthcare services sector and wish to advance professionally.

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 Greene Center for Innovation and Entrepreneurship and through collaboration with the Institute for Regional Innovation and Entrepreneurship. 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 College goals and objectives for students in the undergraduate business program are:

1. Proficiency in oral/written communication
  - a. Write business documents with clear focus, development, organization, and mechanical correctness.
  - b. Create and deliver a professional presentation on a relevant business problem or issue. The presentation will display adequate content, organization and delivery.
  - c. Listen satisfactorily and recall work-related information.
2. Knowledge of the fundamentals of accounting, finance, business law, MIS, marketing, management and economics
  - a. Use business-related terms, concepts, theories, and principles appropriately.
3. Application of critical thinking skills to business problems and ethical dilemmas
  - a. Identifying the problem/issue(s)
  - b. Presenting the plausible alternatives
  - c. Evaluating the alternatives
  - d. Resolving the problem/dilemma with justification based on ethical principles, discipline-specific understanding, and professional judgement.
4. Awareness and understanding of other cultures by demonstrating shared feelings, perceptions, and experiences.
  - a. Provide evidence of adapting to other cultures by demonstrating shared feelings, perceptions, and experience.

#### 5. Effective use of technology

- a. Use technology-related terms, concepts and processes appropriately.
- b. Use the internet, spreadsheet, database, word processing, statistical, and presentation software effectively.

Regardless of degree, graduates of the Harrison College of Business are problem-solvers; they work hard, know their stuff, know how to think and play well together.

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

## ACCOUNTING

### Chairperson: Alisha Ortiz (Interim)

**Faculty: Sean Eom, Pam Gershuny, Roberta Humphrey, Gary Johnson, Christine Ladwig, Rebecca Lohmann, Leisa Marshall, Charles McAllister, Lori Mueller, Gillian Nicholls, Richard Palmer, Dana Schwieger, Gangaraju Vanteddu, Anthony Varnon, Jill Young**

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. 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.)

**MINORS:**

Accounting  
Business Law  
Supply Chain Management

***ECONOMICS AND FINANCE*****Chairperson: Rebecca Summary**

**Faculty: Fred Adjei, Michael Devaney, Benjamin Dow, Brian Gehring, Natallia Gray, Kang Hoon Park, Willie Redmond, William Weber, Chen Wu, 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 \$1million. 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: James Caldwell, John Cherry, Kevin Dickson, Lisa Essmyer, Erin Fluegge, Peter Gordon, Dena Hale, Kenneth Heischmidt, Sarah Holt, Nick Johnston, Nancy LeGrand, Ismatilla Mardanov, Heather McMillan, Quantella Noto, Foster Roberts, Sandipan Sen, 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 BSBA degree majors of management, marketing, business administration, healthcare administration and international business and the BS majors in Healthcare Management and Hospitality Management. 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 BSBA degree with a major in Healthcare Administration focuses on how the functional areas of business (finance, management, accounting, marketing and economics) operate within the complex healthcare environment.

The BS degree with a major in Healthcare Management offers a focus area (option) in either Quality and Patient Safety or Informatics. The BS degree with a major in Hospitality Management covers hotel and resort management, hospitality sales and marketing, food and beverage management, event management and culinary practices.

The department administers several minors, including those closely related to majors in Marketing and Management, a minor in Hospitality 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.)
- Healthcare Administration (B.S.B.A.)
- Hospitality Management (B.S.)
- 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
- Healthcare Management (B.S.)
  - Options: Informatics
  - Quality and Patient Safety

### **MINORS:**

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

## **COLLEGE OF EDUCATION**

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### **Diana Rogers-Adkinson, Dean**

#### **Department of Educational Leadership and Counseling**

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

#### **Department of Middle & Secondary Education**

The mission of the College of Education is to prepare teachers, leaders and counselors as highly effective

professionals. Bachelor's degree programs in teacher education prepare students for entry into careers and serve as a foundation for advanced education. These programs include a strong University Studies component, development of skills in the art of teaching, sequenced integrated field-based experiences, and instruction in the knowledge required for teaching in specialty areas. Graduate programs in teacher education, educational administration, and counseling provide opportunities for advanced education. The college also offers specialist's degrees in Educational Leadership and Counseling Education. 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 Council for the Accreditation of Educator Preparation (CAEP), and all of its certification programs have been approved by the Missouri Department of Elementary and Secondary Education (DESE). In addition, many programs have been recognized for their excellence by professional organizations in specialty areas (e.g. Music Education, Early Child Education, Counselor Education).

Other noteworthy items that underscore the quality of the College of Education include:

- Recognized leader in the International Reading Recovery Program. The Reading Recovery program is part of the Missouri Early Literacy Intervention Program (MSELIP);
- Regional Professional Development Center for area teachers, administrators, and counselors;
- International (50 countries) and American Indian Reservation student teaching opportunities;
- Southeast Missouri State University Autism Center for Assessment and Intervention of Children and Adults with Autism Spectrum Disorders.

All candidates for teacher education licensure must pass the required state assessments. State regulations may change, and teacher candidates are encouraged to remain attentive to these potential changes. Education advisors support students in understanding how to meet those standards.

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

**Chairperson: C.P. Gause**

**Faculty: Lisa Bertrand, Sherry Copeland, Margaret Dalton, Kristin LaMantia, Margaret Noe, Melissa Odegard-Koester, Travis Smith, David Stader, Holly Wagner, 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, Susan Davis, Sharon Dees, Ann Graham, Sharon Gunn, Tahsin Khalid, Ashley Lugo-King, Dixie McCollum, Debra Porter, Jamie Severtson, Shonta Smith, Brooke Uchtman, 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 includes a main emphasis on mild and moderate cross-categorical special education (K-12) and the coursework necessary to add on a certification in elementary education (grades 1-6). The early childhood education program provides instruction for birth-grade 3 and the coursework necessary to add on certification in elementary (grades 1-6). The elementary education program offers the option of an add-on certification in middle school education (grades 5-9).

### **MAJORS:**

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

### **CERTIFICATES:**

Autism Spectrum Disorder Certificate  
Teaching Assistant Preparation Certificate –  
Elementary or Special Education

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

**Chairperson: Simin Cwick**

**Faculty: William Bratberg, Shannon Clapsaddle, David Powell, Robin Smith  
Content Specialists: Gabriele Eckart,**

**Patricia Farrish, Carol Horst, Courtney Kisat,  
David Mauk, Belinda McMurry, Adolfo Ramos,  
Tamela Randolph, Christine Warren**

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. Extensive field experiences are an integral part of each program. Additionally, a Master of Arts with options for majors in Educational Studies in Art, Autism, English, Math or Science 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.

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, and the Association for Supervision and Curriculum Development (ASCD).

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

Agricultural Education (9-12)  
Art Education (K-12)  
Biology 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)  
Mathematics Education (9-12)  
Middle School Education (5-9)  
Music Education: Instrumental (K-12)  
Music Education: Vocal (K-12)  
Physical Education (K-12)  
Physics Education (9-12)  
Social Studies (9-12)  
Spanish Education (K-12)  
Unified Science-Biology (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 life-long 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**

### **Chairperson: Michael Holt**

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: Marcia Brown Haims**

#### **Faculty: Martha J. Cook, Jayanti Ray, Joyce Renaud, Misty Tilmon, Julie Tipton**

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: Jeremy Ball**

**Faculty: Monica Bixby-Radu, Raleigh Blasdell, Andrew Fulkerson, Morris Jenkins, Michelle Kilburn, Carl Kinnison, Karl Kunkel, Laura Krieger-Sample, Kristen Sobba**

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 350 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 gain 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, and Sociology. (Students who choose to major in criminal justice may not choose criminal justice as a minor.) The undergraduate program is offered face-to-face on the main and regional campuses as well as online. The graduate program is also offered both face-to-face and online. Students who have successfully completed a state-certified Law Enforcement Academy in the state of Missouri can earn 24 credits (LE199, LE299, LE399, LE499) with proper documentation. Students with documented completion of a non-Missouri Law Enforcement Academy may also earn credit. See department chairperson for information.

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

**MAJORS:**

Criminal Justice (B.S.)

**MINORS:**

Criminal Justice  
Criminology  
Sociology

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, Recreation and Park Administration and Sport Management programs are fully accredited.

**MAJORS:**

Athletic Training (B.S.A.T.)  
Health Management (B.S.)  
Options: Exercise Science  
Health Promotion  
Health Sciences (B.S.)  
Options: General Health Sciences  
Pre-Physical/Occupational Therapy  
Physical Education (B.S.Ed.)  
Recreation and Park Administration (B.S.)  
Sport Management (B.S.)

**MINORS:**

Coaching  
Exercise Science  
Health Management Entrepreneurship  
Health Promotion  
Outdoor Adventure Leadership  
Recreation  
Sport Management  
Substance Abuse Prevention

## **HEALTH, HUMAN PERFORMANCE, AND RECREATION**

**Chairperson: Joseph Pujol**

**Faculty: Jeremy Barnes, Michael Church, Beth Easter, Beverly Evans, Thomas Holman, Mark Langenfeld, Steve Nickell, Adolfo Ramos, Kyle Schneider, Alicia Scott, Annette Slattery, Seido Sofo, Jason Wagganer**

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

## **HUMAN ENVIRONMENTAL STUDIES**

**Chairperson: Victor Wilburn (Interim)**

**Faculty: Mary E. Ambery, Nicole Beaton, Shelba Branscum, Michelle Brune, Charlotte Cervantes, HJ Cho, Tammy Davis, Anthony Faber, Patricia Farrish, Sara Garner, Allie Helfrich, Billie Holshouser, Lee Anne Lambert, Carol Nesler, Joel Ramdial, Sharo Shafaie, Sara Starbuck, Angie Stiegemeyer, Francis Tayie, Molly Timlin**

The Department of Human Environmental Studies offers a wide variety of programs and four year degree programs that prepare professionals in social services, health, education and business. 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. The Family Studies Program is a nationally certified program through the National Council on Family Relations (CFLE). 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.

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.

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

The Interior Design program is accredited by the National Kitchen and Bath Association (NKBA) and have CIDA accreditation.

The Family and Consumer Sciences Education degree meets the requirements of the Missouri Department of Elementary and Secondary Education for teachers. 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 teacher training laboratories, provide diverse educational experiences for students. Programs administered by the department include Workshop on Wheels, EDUCARE, APPLE, and the Horizon Adult Day Care Program.

#### **MAJORS:**

Human Environmental Studies (B.S.)

Options: Child Development  
Dietetics  
Family Studies  
Fashion Merchandising  
Interior Design

Family and Consumer Sciences Education (B.S.F.C.S.E.)  
Child Care and Guidance (A.A.)

#### **MINORS:**

Child Development  
Child Development-Childhood Trauma and Outcomes  
Family Studies  
Fashion Entrepreneurship  
Fashion Merchandising  
Gerontology

Interior Design

Nutrition

## **MILITARY SCIENCE**

### **Program Director: Richard Branson**

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. 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, Moretta Burk, Vera Campbell-Jones, Cheryl Essner, Christel Fehr, Linda Garner, Kathy Ham, Linda Heitman, Elaine Jackson, Cassandra Loggins, Bobbi Palmer, Desma Reno, Julie Sappington, Lorreen Stinnett, Julie Twidwell, Jolon Vaughn, Kim Waltrip**

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 fully 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 the Family Nurse Practitioner option. 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: Cathy McElderry**

**Faculty: Dana Branson, Dhira Crunkilton, Kathie Miller, Gina Paris**

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 curriculum 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**

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**Francisco Barrios, Dean**

**Rhonda Weller-Stilson, Associate Dean and Director, Holland School of Visual and Performing Arts**

**Department of Communication Studies**

**Department of English**

**Department of History**

**Department of Mass Media**

**Department of Modern Languages, Anthropology & Geography**

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

**Department of Psychology**

**Holland School of Visual and Performing Arts**

**Department of Art**

**Department of Music**

**The Conservatory 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 historic preservation, music education, theatre, and dance, and the various options within the mass communication major (advertising, multimedia journalism, public relations, TV & film) 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, Joshua Newth, Hannah March Sanders, Katherine Ellinger Smith, Chris Wubben**

The Department of Art offers courses in digital art, web design, digital photography, graphic design, illustration, painting, drawing, printmaking, ceramics, sculpture, fiber, two and three dimensional design, art history, and art education. Upon completion of the five foundation courses, and passing the foundation review, students may choose to pursue the B.F.A, B.A., or B.S.Ed. in Art Education (K-12). The B.F.A. students choose an area of specialization in one of the following areas: Digital Arts; Graphic Design/Illustration; Ceramics; Painting; Printmaking; or Sculpture. The B.A. program leads students to a liberal arts degree with a minor required. The

B.S.Ed. in Art Education (K-12) is a major in Art and prepares students with the tools to teach in a K-12 educational setting. Art majors are expected to enter work every year in the Juried Student Assessment Exhibition. B.F.A. students are required to complete a senior B.F.A. senior 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: Lisa Clark, Brooke Clubbs, Jeanne Harris, Avery Henry, Natalie Holley, Slavica Kodish, Roseanna Whitlow-Greenwood**

The Department of Communication Studies offers majors in Communication Studies, Corporate Communication, and Health Communication as well as minors in Communication Studies, Communication for Health Professionals, and Communication for Legal Professionals. 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 for a variety of activities and careers which require skilled communicators. They also enhance their ability to participate more meaningfully in civic affairs.

In and out of the classroom, students will find opportunities to grow. A variety of audiovisual resources housed in state-of-the-art classrooms support department instruction, and a Speaker's Lab serves as a student resource. An award-winning intercollegiate debate program provides skill refinement for majors and those planning a legal or political career. The student organization, COMMrades, assists leadership training, professional networking, service-learning, and volunteer opportunities for majors and students studying communication-intensive professions. Another student organization, "Jimmy's Friends," offers service opportunities in a healthcare setting. In addition, active chapters of the honor societies Phi Kappa Delta (forensics) and Lambda Pi Eta (Communication Studies) foster and recognize academic achievement.

#### **MAJORS:**

Communication Studies (B.A.)

Corporate Communication (B.S.)

Health Communication (B.S.)

**MINORS:**

Communication for Health Professionals  
 Communication for Legal Professionals  
 Communication Studies

**ENGLISH****Chairperson: Susan Kendrick**

**Faculty: James Brubaker, John Campbell, Stephanie Chamberlain, Daniel Crocker, Jon Hayes, Pennie Pflueger, Missy Phegley, Debrah Raschke, Chris Rieger, Eric Sentell, Irina Ustinova, Melanie Walters, Christine Warren, Laura Weiss, Shauna Wight, 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  
 Writing

**CERTIFICATE:**

ESOL

**HISTORY****Chairperson: Wayne H. Bowen**

**Faculty: J. David Cameron, John Chandler, Eric L. Clements, Adam Criblez, Dalton Curtis, Laurie Hamblin, Theresa Haug-Belvin, Steven Hoffman, Courtney Kisat, Vicky McAlister, Joel Rhodes, Lily Santoro**

The Department of History offers four undergraduate programs: Bachelor of Arts with a major in History, Bachelor of Arts with a major in Social Science, Bachelor of Science with a major in Historic Preservation and 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. programs in History and Social Science prepare 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, non-profits 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 organizations 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, the National Trust for Historic Preservation, Gettysburg National Historic Park, The United States Holocaust Memorial Museum, and the Smithsonian Institution.

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: Karie Hollerbach**

**Faculty: Tamara Zellars Buck, James Dufek, Susan Gonders Golike, Fred Jones, Don Jung, Bruce Mims, Lok Pokhrel, Michael Simmons**

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 the 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; 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

## **MODERN LANGUAGES, ANTHROPOLOGY, AND GEOGRAPHY**

**Chairperson: Toni Alexander**

**Faculty: Beth Adkins, Warren Anderson, Jennifer Bengtson, Doc Billingsley, Gabriele Eckart, Debra Lee-DiStefano, Kimberly Louie, Shu-Chuan Wang-McGrath**

The Department of Modern Languages, Anthropology, and Geography 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

## **MUSIC**

**Chairperson: Kevin Hampton**

**Faculty: Gabrielle Baffoni, Sara Edgerton, Robert Fruehwald, Marc Fulgham, Christopher Goeke, Nicholas Kenney, Leslie Jones, Barbara Lamont, Elizabeth McFarland, Shane Mizicko, Martin Reynolds, Timothy Schmidt, Paul Thompson, Jacqueline Wilson, 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. The department enriches the musical life of the university and the community through its varied activities.

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 may advance 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  
Vocal

**MINOR:**

Music

Fine Arts Entrepreneurship

## ***POLITICAL SCIENCE, PHILOSOPHY, AND RELIGION***

**Chairperson: Hamner Hill**

**Faculty: Rickert Althaus, Chris Baldwin, Laura Hatcher, Albert Hayward, Debra Holzhauser, Bronik Matwijkiw, James Newman, Tomoaki Nomi, Bambi Robinson, Kevin Sexton, Patty Sharp, Jason Sides, 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 offers courses in 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 department also offers a Master of Public Administration degree. The MPA program focuses on public employment, and is strongly supported by internships in government and not-for-profit institutions. For more information on the MPA, consult the graduate bulletin. 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: Scott Brandhorst, Eu Gene Chin, Catherine Chou, Alison Whiteford Damerall, Laura Delgado, Jennifer Gadberry, Shawn Guiling, Jeremy Heider, John Humrichouse, Lesly Krome, Stephen Nettelhorst, Gail Overbey, D'Arcy Reynolds, Nicolas Wilkins**

The Department of Psychology offers an undergraduate major that leads to the Bachelor of Science degree and an online major that leads to a Bachelor of Arts degree. The goal of these programs is to provide a common set of learning experiences that characterize the breadth and diversity of the discipline. The programs establish a solid foundation for a variety of career goals. The B.S. program prepares students for graduate education in psychology also. In addition, 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 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.A., online)  
Psychology (B.S.)

**MINORS:**

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

## ***THEATRE AND DANCE***

**Chairperson: Kenneth L. Stilson**

**Faculty: Alyssa Alger, Michelle Contrino, Amber Cook, Philip Edgecombe, Josh Harvey, Michael McIntosh, Jenna Moore, Philip Nacy, Hilary Peterson, Rhonda Weller-Stilson, Roxanne Wellington, Bart Williams**

The Conservatory 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 10 major productions, two student showcases, the Fault Line Film Festival, 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 world-class facility with numerous classroom, construction, rehearsal and performance spaces. The conservatory 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, professional employment, and showcases in both New York and Los Angeles. The theatre program is accredited by the National Association of Schools of Theatre (NAST).

**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**

**Sophia Scott, Associate Dean**

**Department of Agriculture**  
**Department of Biology**  
**Department of Chemistry**  
**Department of Computer Science**  
**Department of Mathematics**  
**Department of Physics and Engineering Physics**  
**Department of Polytechnic Studies**  
**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 Polytechnic Studies 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. Polytechnic Studies 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 Hutson Horticulture Greenhouse in the Department of Agriculture provide excellent opportunities 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: Julie Weathers

**Faculty: Michael Aide, Indi Braden, Heidi Clark, Christian DeGuzman, Samantha Lowman, David Mauk, Byron McVay, Wesley Mueller, Sven Svenson**

The Department of Agriculture's teaching laboratories are supported by the David M. Barton Agriculture Research Center, the Charles L. Hutson Horticulture Greenhouse, the Charles Nemanick Alternative Agriculture Gardens, the Rice Research Station, Horticulture Incubator Lab and the Agriculture Experiential Learning Field. 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, Collegiate Cattleman's Club, Collegiate Farm Bureau, Collegiate FFA, Delta Tau Alpha (national agriculture honorary society), Equestrian Club, Equestrian Team, Horticulture Club, the Livestock Showing team, and the Pre-Veterinary Medicine Club are actively supported.

#### MAJORS:

Agribusiness (B.S.)

Options: Agriculture Industry

Animal Science

Horticulture

Plant & Soil Science

Agricultural 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, Rebecka Brasso, Marilyn Burleson, Jon Davenport, Jeremy Ellermeier, Seong Nam Hwang, Timothy Judd, John Kraemer, Rebeccah Kurzhals, Walt Lilly, Shannon McNew, James Robins, John Scheibe, Dustin Siegel, Michael Taylor, Jennifer J. Weber, 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 excellent opportunities for field studies. 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 is 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  
Biology Education (B.S.Ed.)  
Options: Biology Education  
Unified Science

#### **MINORS:**

Biological and Medical Sciences Entrepreneurship  
Biology

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

Pre-Chiropractic  
Pre-Dentistry  
Pre-Medicine  
Pre-Optometry

## **CHEMISTRY**

### **Chairperson: Philip Crawford**

**Faculty: Mohammed Ali, Marcus Bond, Kelli Gottlieb, Sean Gottlieb, Jim McGill, Chris McGowan, Christina Ragain, Michael Rodgers, Rachel MorganTheall**

The Department of Chemistry is fully accredited by the American Chemical Society (ACS) 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 Laboratory Science 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 organizations, such as the student affiliate chapter of the American Chemical Society and the Forensic Science Club also promote 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 (ACS Certified)  
Biochemistry  
DNA Analysis  
Forensic Chemistry  
Chemistry Education (B.S.Ed.)  
Medical Laboratory Science (B.S.)

#### **MINOR:**

Chemistry

#### **PRE-PROFESSIONAL PROGRAM:**

Pre-Pharmacy

**COMPUTER SCIENCE****Chairperson: David Probst****Faculty: Suhair Amer, Vijay Anand, 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:

1. Recognized by their peers and superiors for their technical skills in the computing field;
2. Recognized by their peers and superiors for their professional skills in the computing field (e.g., communication, teamwork, leadership);
3. Actively involved in local and regional professional service;
4. Graduate students in computer science and related disciplines;
5. 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, in most tracks, 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 graduates of either program. 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.)  
 Cybersecurity (B.S.)

**MINORS:**

Computer Science  
 Cybersecurity  
 Cybersecurity for Business Systems  
 Information Systems

**ENVIRONMENTAL SCIENCE****John Kraemer, Director****Content Area Representatives: Michael Aide, Mohammed Ali, Allan Bornstein, Rebecka Brasso, James Champine, Philip Crawford, Gary Cwick, Hamner Hill, Debra Holzhauer, Seong Nam Hwang, Timothy Judd, Tahsin Khalid, Walt Lilly, Jim McGill, Chris McGowan, David Powell, William Weber**

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.

**MAJORS:**

Emergency Preparedness (B.S.)  
 Environmental Science (B.S.)

Options: Biology  
 Business  
 Chemistry  
 Environmental Health  
 Geoprocessing & Soils  
 Policy & Communication

Geographic Information Science (B.S.)

Public Health (B.S.)

Options: Biology  
 Health Policy & Management  
 Information

Nutrition  
Social/Behavioral

**MINORS:**

Environmental Science  
Geographic Information Systems  
Sustainability

**MATHEMATICS****Chairperson: Tamela D. Randolph**

**Faculty: Henry Clark, Daniel Daly, Paul Deiermann, Natalya Kutsevalova, Avelina Lichtenegger, Garion Lovig, Cheryl McAllister, James McEwen, William McNeary, Peter Oman, Laurie Overmann, Craig Roberts, Ann Schnurbusch, Andrew Schwartz, Pradeep Singh, Emmanuel Thompson, Caroline Thornburgh, Mohan Tikoo, 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: Actuarial Science  
Applied Mathematics & Statistics  
Pure Mathematics  
Mathematics (B.S.Ed.)

**MINOR:**

Mathematics

**PHYSICS & ENGINEERING****PHYSICS****Chairperson: David Probst**

**Faculty: Ali Abu-Nada, Michael Cobb, Gary Cwick, Santaneel Ghosh, Margaret Hill, Jonathan Kessler, Pamela Mills, Jian Peng, 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:

1. Graduates will be successful professionals.

2. Graduates will be effective communicators.
3. Graduates will be life-long learners.
4. 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, 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  
Geoscience  
Physics

**PRE-PROFESSIONAL PROGRAM:**

Pre-Engineering

**POLYTECHNIC STUDIES****Chairperson: Bradley Deken**

**Faculty: Khaled Bawaneh, Bryan Bowers, Gregory Boyd, Clyde Carryl, Robbie Davis, John Dudley, Jeremy Griffin, Kevin McMeel, Belinda McMurry, Olufolahan Oduyemi, Jim Peterson, Bradley Phillips, Shane Prine, Md. Rasheduzzaman, Sophia Scott, Jingjing Tong, Shaojun Wang**

The Department of Polytechnic Studies offers Bachelor of Science programs in Technology Management, Engineering Technology, Commercial Multimedia, Industrial Distribution, Industrial and Systems Engineering, and Unmanned Aircraft Systems. 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 program in Technology Management and an Associate of Applied Science program in Computer Technology.

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 Multimedia (B.S.)

Options: Computer Multimedia Graphics  
Commercial Photography

Engineering Technology (B.S.)

Options: Electrical & Control  
Mechanical & Manufacturing Systems

Industrial Distribution (B.S.)

Industrial & Systems Engineering (B.S.)

Technology and Engineering Education (B.S.Ed.)

Technology Management (B.S.)

Options: Construction Management & Design  
Facilities Management & Sustainability  
Industrial & Safety Management  
Sustainable Energy Systems  
Management  
Technology Management  
Telecommunications and Computer  
Networking

Unmanned Aircraft Systems (B.S.)

Computer Technology (A.A.S.)

Options: Automated Manufacturing  
Microcomputer Systems  
Technical Computer Graphics

**CERTIFICATE:**

Healthcare Facilities Operations

**MINORS:**

Architectural Design

Commercial Photography

Computer Networking

Construction Management

Electronic Technology

Graphic Communications Technology

Industrial and Engineering Technology Entrepreneurship

Industrial Management

**PRE-PROFESSIONAL PROGRAM:**

Pre-Architecture



# University Studies



## **SCHOOL OF UNIVERSITY STUDIES**

**Wayne H. Bowen, Director**

**UI 100 Experience**

**University Studies Program**

### **UNIVERSITY STUDIES PROGRAM**

General or liberal education programs at most colleges and universities 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 42 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

#### **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 104	2D Design (3)
AR 108	Drawing in Society (3)
AR 111	Ceramics: A Metaphor for Understanding Human Experience (3)
AR 112	Perspectives in Art (3)
CF 233	Creative Thought and Expression in Children (3)
DA 100	Dance Appreciation (3)
DS 104	Exploring Interior Design (3)
LI 205	The Art of Film (3)
MM 101	Theories of Music in Culture (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)*

- CN 100 Chinese Language & Culture I (3)  
 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)  
 EN 190 Writing & the Environment (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 220 Psychological Devel Across Life Span (3)  
 PY 222 Development of the Adolescent (3)

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

- AO 120 Plant Science (3)  
 AY 101 Animal Science (3)  
 BI 163 Evolution and Ecology (4)  
 BS 103 Human Biology (3)  
 BS 105 Environmental Biology (3)  
 BS 107 Investigations in Biology (3)  
 BS 108 Biology for Living (3)  
 BS 151 Biological Reasoning (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 123 Survey of Mathematics (3)  
 MA 128 Numbers & Operations for Educators (4)  
 MA 134 College Algebra (3)  
 MA 137 Precalculus (5)  
 MA 155 Statistical Reasoning (3)  
 MA 218 Concepts of School Mathematics (3)  
 PL 120 Symbolic Logic I (3)

**NOTE:** In order to receive a degree from Southeast, students must pass MA 106 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)  
 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 21<sup>st</sup> Century (3)
- FA 104 Beyond Project Runway (3)
- GG 150 People & Places of the World (3)
- GG 180 Cultural Geography (3)
- MC 101 Mass Communication & Society (3)
- OS 200 Survey of Social Science (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)



# Degrees/Majors/ Pre-Professional Curricula



## **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 42 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 career proficiency checks CL 001, CL 002, CL 003, and CL 004.
- Required completion of MAPP2.
- Required completion of WP 003.
- 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, and the Bachelor of Music Education which require a 2.75 GPA, 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, the major in Health Sciences which requires a 3.0, 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 Athletic Training

major, 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, and the Human Environmental Studies: Dietetics Option which require a 3.0 GPA. For all students in an education program, a GPA of 3.0 or higher is required in both the professional education coursework and in the specific content area for which certification is sought.

- 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 any required developmental courses 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:

### **Academic Advising – North**

Seabaugh Polytechnic Building, Room 301

Telephone: (573) 651-5090

Donald L. Harrison College of Business

College of Science Technology & Agriculture

### **Academic Advising – South**

Academic Hall, Room 057

Telephone: (573) 651-2007

College of Education

College of Health & Human Services

College of Liberal Arts

School of University Studies

**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) .....	90
Bachelor of Science (BS) .....	90
Bachelor of Science in Athletic Training (BSAT) .....	114
Bachelor of Science in Bus Admin (BSBA) .....	114
Bachelor of Science in Education (BSED) .....	118
Bachelor of Family & Consumer Sciences Education (BFCSE) .....	126
Bachelor of Music Education (BME) .....	127
Bachelor of Music (BM) .....	127
Bachelor of Science in Nursing (BSN) .....	128
Associate degrees (AA, AAS) .....	129

**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/BSAT .....	Health, Hum Perf & Rec/H&HS
Biology/BS .....	Biology/ST&A
Biomedical Science	
Marine Biology	
Microbiology, Cellular & Molecular Biology, & Biotechnology	
Organismal, Ecological, & Evolutionary Biology	
Pre-Physician Assistant	
Wildlife & Conservation	
Biology/BSED .....	Biology/ST&A
Biology Education	
Unified Science .....	
Business Administration/BSBA .....	Harrison College of Business
Chemistry/BA, BS, BSED .....	Chemistry/ST&A
Child Care & Guidance/AA .....	Human Envir. Studies/H&HS
Child Development .....	(see Human Envir. Studies)
Commercial Multimedia/BS .....	Polytechnic Studies/ST&A
Communication Disorders/BS .....	Comm Disorders/H&HS
Communication Studies/BA .....	Communication/Lib Arts
Computer Information Systems/BS .....	Computer Sci/ST&A
Computer Science/BS .....	Computer Sci/ST&A
Computer Technology/AAS .....	Polytechnic Studies/ST&A
Construction Mgmt & Design .....	(see Polytechnic Studies)
Corporate Communication/BS .....	Communication/Lib Arts
Criminal Justice/BS .....	Crim Justice & Sociology/H&HS
Cybersecurity/BS .....	Polytechnic Studies/ST&A
Dance/BA, BFA .....	Theatre & Dance/Lib Arts
Dietetics .....	(see Human Envir. Studies)
Early Childhood Educ/BSED .....	Erlly, Elem & Special Educ/Ed
Economics/BS .....	Economics & Finance/Bus
Economics/BSBA .....	Economics & Finance /Bus
Business Economics	
Financial Economics	
Elementary Education/BSED .....	Erlly, Elem & Special Educ/Ed
Emergency Preparedness/BS .....	College of Science, Tech & Agric
Engineering Physics/BS .....	Physics & Engr Physics/ST&A
Computer Applications	
Electrical Applications	
Mechanical Applications	
Engineering Technology/BS .....	Polytechnic Studies/ST&A
Electrical & Control	

Mechanical/Manufacturing Systems	
English/BA, BSED .....	English/Lib Arts
Literature	
Writing	
Entrepreneurship .....	(See Mgmt & Mktg/Bus)
Environmental Science/BS .....	Environmental Sci/ST&A
Biology	
Business	
Chemistry	
Environmental Health	
Geoprocessing & Soils	
Policy & Communication	
Exceptional Child Educ/BSED .....	Erlly, Elem & Special Educ/Ed
Family & Consumer Sciences Educ/FCSE .....	Human Envir. Studies/H&HS
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 .....	Modern Lang/Anthro/Geog/Lib Arts
General Studies/BGS .....	University Studies
Geographic Information Science/BS .....	Environmental Science/ST&A
German/BSED .....	Modern Lang/Anthro/Geog/Lib Arts
Global Cultures & Languages/BA .....	Modern Lang/Anthro/Geog/Lib Arts
Anthropology	
Foreign Language	
Global Studies	
Health Communication/BS .....	Communication Studies/LA
Health Management/BS .....	Health, Hum Perf & Rec/H&HS
Exercise Science	
Health Promotion	
Health Sciences/BS .....	Health, Hum Perf & Rec/H&HS
General Health Sciences	
Pre-Physical/Occupational Therapy	
Healthcare Administration/BSBA .....	Marketing/Bus
Healthcare Management/BS .....	Marketing/Bus
Informatics	
Quality & Patient Safety	
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 Distribution .....	Polytechnic Studies/ST&A
Industrial Management .....	(see Polytechnic Studies)
Industrial & Systems Engineering .....	Polytechnic Studies/ST&A
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
Actuarial Science	
Applied Mathematics & Statistics	
Pure Mathematics .....	
Mathematics/BSED .....	Mathematics/ST&A
Medical Laboratory Science/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/BA, BS.....	Psychology/Lib Arts
Public Health/BS.....	Environmental Science/ST&A
Biology	
Health Policy & Management	
Information	
Nutrition	
Social/Behavioral	
Public Relations.....	(see Mass Communication)
Recreation & Park Administration/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.....	Modern Lang/Anthro/Geog/Lib Arts
Sport Management/BS.....	Health, Hum Perf & Rec/H&HS
Technology & Engineering Education/BSED.....	Polytechnic Studies/ST&A
Technology Management/BS.....	Polytechnic Studies/ST&A
Construction Management and Design	
Facilities Management & Sustainability	
Industrial & Safety Management	
Sustainable Energy Systems Management	
Technology Management	
Telecommunication & Computer Networking	
Telecommunication & Computer Networking.....	(see Polytechnic Studies)
Theatre/BA.....	Theatre & Dance/Lib Arts
Theatre/BFA.....	Theatre & Dance/Lib Arts
Acting	
Design/Technology	
Musical Theatre	
Television & Film.....	(see Mass Communication)
Unmanned Aircraft Systems.....	Polytechnic Studies/ST&A

- History
- Music
- Philosophy
- Political Science
- Psychology
- Social Science
- Theatre

## ART

### 39 Hour Major Minor Required

(see also Bachelor of Fine Arts degree)

#### Required Courses:

- AR 001 Foundation Review (0)
- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 100 Drawing I (3)
- AR 104 2D Design (3)
- AR 106 3D Design (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II (3)
- AR 399 Prof Pract in Visual Art (3)

#### Choose 6 hours from:

- AR 302 Printmaking (3)
- 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)

#### Choose 6 Hours Additional Art History Courses (300-500 level)

Choose 3 hours of art/art history electives.

**Every year, when taking student art classes, it is recommended that art work should be entered in the Juried Student 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
- Chemistry
- Forensic Science

Communication Studies

Dance

English

- Options: Literature
- Writing

Global Cultures & Languages

- Options: Anthropology
- Foreign Language
- Global Studies

## CHEMISTRY

### 36-66 Hour Major – minor required on some options 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 306 Survey of Phys Chem (3)
- CH 313 Physical Chem Lab (3)
- CH 340 Essentials of Organic Chem (5)
- CH 498 Professional Presentation in Chemistry (1)
- CH 531 Found of Biochemistry (3)

#### OR

- 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)

EC 215 Principles of Microeconomics (3)

EC 225 Principles of Macroeconomics (3)

FI 361 Financial Management (3)

IS 175 Information Systems I (3)

MA 223 Elementary Probability and Statistics (3)

**OR**

QM 257 Business Statistics (3)

MG 301 Principles of Management (3)

MI 375 Management Information Systems (3)

MK 301 Principles of Marketing (3)

*\*\*Upon completion of the B.A. 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 Laboratory (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)

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 301 Found of Health Comm (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 I (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*

## 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 211 World Literature I (3)
- LI 212 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 Trag & 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 Twentieth-Century 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)
- 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)
- EN 572 Creative Non-Fiction 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 Twentieth-Century American Novel (3)

- LI 571 Contemporary American Poetry (3)

- LI 576 Am Fiction/21st Century (3)

#### Professional Writing (Choose 3 hours):

- EN 302 Small Press Publishing (3)
- EN 311 Literary Manuscript Editing Practicum (3)
- EN 435 Internship in English (3)
- IU 309 Writing for Science & Technology (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 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)  
*Approved Anthropology Electives (6)\*\*\**

**FOREIGN LANGUAGE OPTION (24 Hours):****French Track:****Required Course:**

FR 010 Language Prof Exam: Midpoint (0)  
 FR 020 Language Prof Exam: Exit (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 010 Language Prof Exam: Midpoint (0)  
 GN 020 Language Prof Exam: Exit (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 010 Language Prof Exam: Midpoint (0)  
 SN 020 Language Prof Exam: Exit (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)  
 EH 103 Modern European Civ (3)

**OR**

WH 130 Latin American 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)

**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, OS200 or departmentally approved UI courses**

*(Only 3 Hours UI courses can be counted on major)*

**Additional Requirements – choose one option:**

12 hours in the same foreign language

**OR**

6 hours in one foreign language

**AND**

6 hours in a different foreign language

**OR**

6 hours in one foreign language

**AND**

6 hours of EH/WH 300-500 level

**OR**

6 hours in one foreign language

**AND**

6 hours of mathematics/statistics (PY 271, PL 120, QM 275, SO/SW 242, MA 123 or above)

**OR**

EH/WH 300-500 level - 12 hours

**OR**

**Second degree/major in one of the following:**

BA – Global Cultures and Languages

BA – Political Science

BS – Historic Preservation

BSBA – International Business

**MUSIC**

**50 Hour Major - Minor Required**

*(A grade of 'C' or better is required for all courses within the major.)*

MH 251 History & Lit of Music to 1827 (3)

MH 252 Evolution of Musical Style Since 1827 (3)

MM 001 Aural Skills (0)

MM 002 Aural Skills (0)

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)

MM 312 Adv Form & Analysis (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 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 Track:**

MU 123 Singer's Diction I (1)

MU 124 Singer's Diction II (1)

**Additional Requirement:**

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)

**OR**

- PS 471 Sr Seminar in Poli Sci (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 331 The American Executive (3)  
 PS 335 American Foreign Policy (3)  
 PS 360 Political Parties & Voting Behavior (3)  
 PS 361 Campaigns & Elections (3)  
 PS 365 Legislative Process (3)  
 PS 387-389 Independent Study in Poli Sci (1-3)  
 PS 390 American Judicial System (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)  
 UI 458 Terrorism & Political Violence (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 403 Public Personnel Admin (3)  
 PS 415 Government Budgeting Process (3)  
 PS 425 Administrative Law & Procedure (3)  
 PS 502 Fundamentals of Public Admin (3)\*  
 PS 505 Org Theory/Behavior (3)\*  
 PS 518 Public Policy Analysis (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

*\*For accelerated MPA students*

**PSYCHOLOGY****54 Hour Major – No Minor Required****Required Courses:**

- PY 101 Psych Perspect/Hum Behr (3)  
 PY 220 Psychological Devel Across Life Span (3)  
 PY 250 Applied Psychology (3)  
 PY 271 Research Design & Analysis I (3)  
 PY 358 Social Psychology (3)  
 PY 362 Learning & Memory (3)  
 PY 432 Intro to Personality (3)  
 PY 440 Abnormal Psychology (3)  
 PY 460 Cognitive Processes (3)  
 PY 466 Intro to Physiological Psychology (3)  
 PY 497 Historical Development (3)  
 PY 531 Psychological Testing (3)

**Choose 18 hours from:**

- PY 120 The Child: Devel/Concept to Adolsc (3)

**OR**

- PY 222 Development of the Adolescent (3)  
 PY 251 Industrial/Organizational Psychology (3)  
 PY 301 Cross-Cultural Psychology (3)  
 PY 325 Psychological Devel of the Family (3)  
 PY 353 Social Cognition (3)

**OR**

- PY 359 Psychology & the Law (3)  
 PY 441 Intro to Clinical Psychology (3)  
 PY 444 Childhood Psychopathology (3)  
 PY 495 Internship in Psychology (3)#  
 PY 525 Maturity & Aging (3)

*#Contact Internship coordinator*

**Additional requirements:****Choose 6 hours from:**

- AN 100 Found of Human Behavior (3)  
 AN 181 Cultural Anthropology (3)  
 BS 103 Human Biology (3)  
 FN 235 Nutrition for Health (3)  
 SO 102 Society, Culture & Social Behr (3)  
 SW 207 Understand Cultural/Social Diversity (3)  
 UI 309 Crime/Human Behavior (3)

## 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 BASS (B.A. in Social Science).

#### University Studies Interdisciplinary Program Options:

UI/IU courses in Social Science may be substituted in any category with the approval of the BASS Coordinator. 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 181 Script Analysis (3)
- TH 218 Acting I (3)
- TH 231 Stagecraft I (3)
- TH 251 Costume Construction (3)

- TH 305 Rehearsal & Production II (6)
- 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 123 Class Voice/Mus Theatre II (3)
  - TH 219 Auditioning I (1)
  - TH 221 Auditioning II (2)
  - TH 223 Movement for the Actor I (3)
  - TH 267 Drawing for the Theatre II (3)
  - TH 275 Stage Management (3)
  - TH 291 Properties & Crafts I (3)
  - TH 317 Voice for the Actor I (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 323 Movement for the Actor II (3)
  - TH 331 Stagecraft II (3)
  - TH 350 Stage Lighting I (3)
  - TH 351 Costume Design I (3)
  - TH 361 Scene Painting I (3)
  - TH 371 Scenic Design I (3)
  - TH 375 Performing Arts Mgmt (3)
  - TH 386 Sound Design I (3)
  - TH 391 Properties & Crafts II (3)
  - TH 395 Period & Style (3)
  - TH 416 Acting Styles (3)
  - TH 417 Voice for the Actor II (3)
  - TH 418 Musical Theatre Performance II (3)
  - TH 429 Accents/Dialects for the Actor (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 481 Scene Painting II (3)
  - TH 485 Directing II (3)
  - TH 486 Sound Design II (3)
  - TH 800 Summer Theatre/Dance Wkshop (3)
- \*9 hours must be at the 300-400 level.

#### Additional Requirement:

- UI 431 Shakespeare Trag & Hum Cond (3)

## BACHELOR OF FINE ARTS DEGREE

The Bachelor of Fine Arts degree is offered in the areas of Art (Department of Art), Dance (The Conservatory of Theatre and Dance) and Theatre (The Conservatory of Theatre and Dance). Music Performance

is offered under the Bachelor of Music degree (Department of Music) page 127.

**The areas from which majors must be chosen are:**

- Art
- Dance
- Theatre
- Options: Acting
- Design/Technology
- Musical 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. Score of 2.5 or better in AR 001 Foundation Review.

**81 Hour Major - No Minor Required**

**Required Courses:**

- AH 110 Art History Survey I (3)
- AH 210 Art History Survey II (3)
- AR 001 Foundation Review (0)
- AR 100 Drawing I (3)
- AR 104 2D Design (3)
- AR 106 3D Design (3)
- AR 201 Color Composition (3)
- AR 202 Drawing II (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 3 Hours Printmaking From:**

- AR 302 Printmaking (3)
- AR 303 Screenprinting (3)
- AR 501 Intaglio Printmaking (3)
- AR 502 Litho Printmaking (3)

**Choose 6 additional hours of Art History courses (300-500 level)**

**Required Specialization – 12-18 hours**

**Additional Art Electives – 12-18 hours**

Studio majors select 12-18 departmentally approved credit hours in one of the following specialized areas: Digital Arts; Graphic Design/Illustration; Painting; Printmaking; Sculpture; or Ceramics.

All BFA majors will choose an additional 12 to 18 departmentally approved elective credit hours.

Every year, artwork must be entered in the Juried Student Assessment Exhibition.

**DANCE**

**83 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 I (3)
- DA 282 Movement Improv (3)
- DA 290 Dance in World Cultures (3)
- DA 301 Dance Musicianship (3)
- DA 305 Rehearsal & Production II (6)
- DA 380 Choreography I (3)
- DA 391 Topics in Dance (6)
- DA 396 Movement Analysis II (3)
- DA 430 Prin of Teaching Dance (3)
- DA 485 Choreography II (6)
- DA 490 Dance History (3)
- DA 497 Choreography III (3)
- DA 498 BFA Project (2)
- DA 499 Internship (2)

**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 216 Pointe I (2)
- DA 227 World Dance I (2)
- DA 228 Hip Hop Dance I (2)
- DA 236 Tap I (2)
- DA 316 Pointe II (2)
- DA 327 World Dance II (2)
- DA 328 Hip Hop Dance II (2)
- DA 336 Tap II (2)
- DA 436 Tap III (2)
- TH 155 Makeup (3)

- TH 218 Acting I (3)  
 TH 251 Costume Construction (3)  
 TH 350 Stage Lighting I (3)

## THEATRE

### 81-83 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 181 Script Analysis (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 385 Directing I (3)  
 TH 488 Senior Portfolio (3)  
 TH 490 Theatre History I (3)\*\* , \*\*\*

#### OR

- UI 384 History of the Musical (3)\*  
 TH 495 Theatre History II (3)  
 TH 498 BFA Project (2)  
 TH 499 Internship (2)

*\*Required for Musical Theatre Option*

*\*\*Required for Acting Option*

*\*\*\*Required for Design/Technology Option*

### Choose One Option:

#### ACTING (41 Hours)

- TH 218 Acting I (3)  
 TH 219 Auditioning I (1)  
 TH 221 Auditioning II (2)  
 TH 223 Movement for the Actor I (3)  
 TH 316 Acting II (6)  
 TH 317 Voice for the Actor I (3)  
 TH 319 Acting for Film & Television (3)  
 TH 321 Stage Combat I(3)  
 TH 323 Movement for the Actor II (3)  
 TH 416 Acting Styles (3)  
 TH 417 Voice for the Actor II (3)  
 TH 429 Accents/Dialects for the Actor (3)

### Choose 5 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)  
 TH 122 Class Voice for Musical Theatre I (3)  
 TH 318 Musical Theatre Perf I (3)  
 TH 350 Stage Lighting (3)  
 TH 351 Costume Design I (3)  
 TH 371 Scenic Design I (3)  
 TH 386 Sound Design I (3)  
 TH 431 Stage Combat II (3)  
 TH 485 Directing II (3)

### Additional Requirement:

- UI 431 Shakespeare Trag & Hum Cond (3)

### DESIGN/TECHNOLOGY OPTION (39 Hours)

- TH 265 Drawing for the Theatre I (3)  
 TH 267 Drawing for the Theatre II (3)  
 TH 275 Stage Management (3)  
 TH 291 Properties & Crafts I (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 I (3)  
 TH 395 Period & Style (3)

### Choose 9 hours:

- TH 331 Stagecraft II (3)  
 TH 391 Properties & Crafts II (3)  
 TH 450 Stage Lighting II (3)  
 TH 451 Costume Design II (3)  
 TH 471 Scenic Design II (3)  
 TH 481 Scene Painting II (3)  
 TH 486 Sound Design II (3)

### Additional Requirement:

- UI 431 Shakespeare Trag & Hum Cond (3)

### MUSICAL THEATRE OPTION (41 Hours)

- TH 122 Class Voice for Musical Theatre I (3)  
 TH 123 Class Voice for Musical Theatre II (3)  
 TH 201 Pvt Voice for Musical Theatre I (2)  
 TH 218 Acting I (3) (in addition to required course)  
 TH 219 Auditioning I (1)  
 TH 221 Auditioning II (2)  
 TH 301 Pvt Voice for Musical Theatre II (2)  
 TH 316 Acting II (6)  
 TH 318 Musical Theatre Performance I (3)  
 TH 401 Pvt Voice for Musical Theatre III (2)  
 TH 418 Musical Theatre Performance II (3)

### Choose 7 hours:

- DA 211 Ballet I (2)  
 DA 221 Modern Dance I (2)  
 DA 226 Jazz Dance I (2)  
 DA 227 World Dance I (2)  
 DA 228 Hip Hop Dance I (2)

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- DA 236 Tap Dance I (2)
- DA 282 Movement Improv (3)
- DA 321 Modern Dance II (2)
- DA 327 World Dance II (2)
- DA 328 Hip Hop Dance II (2)
- DA 336 Tap Dance II (2)
- DA 421 Modern Dance III (2)
- DA 426 Jazz Dance III (2)
- DA 436 Tap Dance III (2)

## Choose 4 hours:

- DA 311 Ballet II (2)
- DA 326 Jazz Dance II (2)
- DA 411 Ballet III (2)
- DA 426 Jazz Dance III (2)

## Additional Requirement:

- UI 431 Shakespeare Trag & Hum Cond (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.

<b>Minimum Degree Requirements</b>	<b>120 Hours</b>
<b>University Studies Requirements</b>	<b>42 Hours</b>
<b>300-500 Level Courses Required</b>	<b>39 Hours</b>
<b>Non-business Courses Required</b>	<b>90 Hours</b>

## **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

### 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 Multimedia

- Communication Disorders
- Computer Information Systems
- Computer Science

### Corporate Communication

### Criminal Justice

### Cybersecurity

### Economics

### Emergency Preparedness

### Engineering Physics

- Options: Computer Applications

### Electrical Applications

### Mechanical Applications

### Engineering Technology

- Options: Electrical & Control

### Mechanical & Manufacturing Systems

### Environmental Science

- Options: Biology

### Business

### Chemistry

### Environmental Health

### Geoprocessing & Soils

### Policy & Communication

### Geographic Information Science

### Health Communication

### Health Management

- Options: Exercise Science

### Health Promotion

### Health Sciences

- Options: General Health Sciences

### Pre-Physical/Occupational Therapy

### Healthcare Management

- Options: Informatics

### Quality & Patient Safety

### Historic Preservation

### Hospitality Management

### Human Environmental Studies

- Options: Child Development

### Dietetics

### Family Studies

### Fashion Merchandising

### Interior Design

### Industrial Distribution

### Industrial & Systems Engineering

### Interdisciplinary Studies

Mass Communication

- Options: Advertising
- Multimedia Journalism
- Public Relations
- Television & Film

Mathematics:

- Options: Actuarial Science
- Applied Mathematics & Statistics
- Pure Mathematics

Medical Laboratory Science

Physics

Political Science

Psychology

Public Health

Recreation & Park Administration

Social Work

Sport Management

Technology Management

- Options: Construction Management and Design
- Facilities Management & Sustainability
- Industrial & Safety Management
- Sustainable Energy Systems
- Management

Technology Management

Telecommunications & Computer Networking

Unmanned Aircraft Systems

## AGRIBUSINESS

**67-70 Hour Major - No Minor Required**

**Required Courses:**

AC 221 Principles of Accounting I (3)

**AND**

AD 101 Intro to Microcomp Appl (3)

**OR**

AG 208 Agriculture Bus Data Analysis (3)

**AND**

AG 381 Agribusiness Management II (3)

AG 245 Agricultural Economics (3)

AG 250 Agribusiness Management (3)

AG 334 Agribusiness Finance (3)

AG 355 Agriculture Seminar (1)

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)

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 210 Animal Welfare (2)

AY 220 Animal Handling (1)

AY 300 Domestic Animal A&P I (3)

AY 305 Advanced Horse Science (3)

AY 310 Domestic Animal A&P II (3)

AY 320 Meat Science (3)

AY 375 Animal Breed Improvement (3)

AY 405 Beef Production (3)

AY 425 Feeding Nonruminants (3)

AY 435 Feeding Ruminants (3)

AY 440 Adv Beef Production (3)

**HORTICULTURE**

AO 215 Soils (3)

AO 323 Plant Pathology (3)

HO 215 Practical Hort Experiences (2)

HO 225 Ident/Use of Deciduous Plants (2)

HO 235 Ident/Use of Evergreen Plants (2)

HO 245 Ident/Use of Interior/Tropical Plants (2)

HO 255 Ident/Use of Annual/Perennial Plants (2)

**Choose 14 Hours From:**

AG 551 Water Management (3)

AO 322 Weed Science (3)

HO 215 Practical Hort Experiences (2)

HO 310 Alternative Agriculture (3)

HO 320 Nursery Admin & Culture (3)

HO 321 Adv Plant Propagation (3)

HO 330 Strategic Landscape Design (3)

HO 342 Prod of Horticulture Crops (3)

HO 350 Adv Greenhouse Mgt (4)

HO 355 Interior Plantscaping (3)

HO 430 Adv Turfgrass Management (3)

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- HO 431 Landscape Inst/Maint (3)
- HO 445 Compost/Utilzn in Hort Systems (3)
- HO 450 Vineyard Operations (3)
- HO 464 Adv Horticulture Technologies (3)
- HO 470 Strategic Urban Hort (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 420 Crop Physiology (3)
- AO 427 Soil Fertility & Plant Nutrtn (3)
- AO 480 Crop Production (3)

### Choose 11-12 hours from the following:

- AG 444 Spatial Analysis (3)
- AO 301 Forages (3)
- AO 321 Cotton & Rice (3)
- AO 322 Weed Science (3)
- AO 327 Sustainable Agriculture (3)
- AO 340 Agroecosystems Analysis (3)
- AO 401 Ag & Natural Resource Mgmt (3)
- AO 415 Crop Systems Management (3)
- AO 444 Prin of Plant Breeding (3)
- AO 555 Soil Class & Resource Mgmt (3)
- AY 105 Animal Science Experience (2)

## BIOLOGY

### 46-52 hour major - No minor required

#### Required Courses:

- BI 163 Evolution & Ecology (4)
- BI 173 Cell/Organismal Biology (4)
- BI 283 Genetics (4)
- BI 389 Career Develop in Biology (1)
- CH 185 General Chemistry (5)

#### Choose two hours:

- BI 471-473 Internship in Biology (1-3)
- BI 551-553 Biology Field Studies (1-3)
- BI 589-591 Biological Research (1-3)
- BI 570 Develop of Instruct Materials (1)

#### Choose one Math course:

- MA 134 College Algebra (3)
- MA 137 Precalculus (5)
- MA 139 Applied Calculus (3)
- MA 140 Analyt Geometry & Calc I (5)

#### Choose 3 hours of additional math:

- MA xxx Additional Math (MA 133 or higher) (3)

#### Choose One of the Following Options

### BIOMEDICAL SCIENCES

- BI 310 General Microbiology (4)

### OR

- ZO 310 Animal Biology (4)

- ZO 331 Animal Physiology (3)

### Any BI, BO, BT, ZO courses, at least 14 credits 300 level and above (17)

#### Non-Biology Requirements:

- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chem Lab I (1)
- 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 Ecology & Conservation (3)
- ZO 310 Animal Biology (4)
- ZO 430 Invertebrate Zoology (4)

### Any BI, BO, BT, ZO courses 300 level and above.

### A minimum of 3 hours of marine biology-related coursework must be taken from the Gulf Coast Research Laboratory or comparable institution. (6-8)

#### Non-Biology Requirements:

- CH 186 Found of Inorganic Chem (3)
- CH 187 Inorg Chem & Qual Analysis Lab (2)
- CH 341 Found of Organic Chem (4)
- CH 342 Organic Chem Lab I (1)
- GO 320 Oceanography (3)
- PH 106 Physical Concepts (3)

### MICROBIOLOGY, CELLULAR AND MOLECULAR BIOLOGY, AND BIOTECHNOLOGY

- BI 245 Lab Methods in Biotechnology (3)
  - BI 310 General Microbiology (4)
- #### Choose 6 hours from this list:
- BI 404 Cell Biology (3)
  - BI 413 Molecular Genetics (3)
  - BI 442 Immunology (3)
  - BI 445 Microbial Physiology (3)
  - BI/BT 450 Inv Molecular Biology & Biotechnology (3)
  - BI 543 Pathogenic Microbiology (2)
  - BI 544 Pathogenic Microbiology Lab (1)
  - ZO 414 Developmental Biology (3)

### Any BI, BO, BT, ZO courses, 300 level and above (10)

#### Non-Biology Requirements:

- 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)
- CH 531/UI 331 Found of Biochemistry (3)

### ORGANISMAL, ECOLOGICAL, AND EVOLUTIONARY BIOLOGY

- BI 300 Intro to Evolutionary Biology (3)
- BI 332 General Ecology (3)

BI 438 Biogeography (3)  
BO 310 Plant Biology (4)  
ZO 310 Animal Biology (4)  
**Any BI, BO, BT, ZO courses, 300 level and above (7)**

**PRE-PHYSICIAN ASSISTANT**

BS 113 Anat & Phys I (4)  
BS 114 Anat & Phys II (4)  
BI/BO/BT/ZO prefix courses (12)\*

**OR**

BS 240 Micro/Human Hosts (3)

**AND**

BI/BO/BT/ZO 3xx-5xx (9)

**Non-Biology Requirements:**

CH 186 Found of Inorganic Chem (3)  
CH 187 Inorg Chem & Qual Analysis (2)  
CH 341 Found of Org Chem (4)  
HL 113 Medical Terminology (3)  
PY 220 Psych Dev Across/Lifespan (3)

**WILDLIFE AND CONSERVATION**

BI 332 General Ecology (3)  
BO 310 Plant Biology (4)  
ZO 310 Animal Biology (4)

**Choose six hours:**

BI 420 Management of Wildlife Populations (3)  
BI 430 Management of Wildlife Habitat (3)  
BI 435 Conservation Biology (3)  
BI 440 Ecology and Management of Wetlands (3)  
BI 469 Wildlife Toxicology (3)

**Any BI, BO, ZO courses 300 level and above (6)**

**Non-Biology Requirements:**

GO 110 Physical Geology (3)

\*At least 9 hours at the senior division

**CHEMISTRY**

**49-62 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:**

**ACS CERTIFIED CHEMISTRY OPTION – 15-16 hours**

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 OPTION – 27 hours**

BI 173 Cell/Organismal Biology (4)  
BI 283 Genetics (4)  
BI 310 General Microbiology (4)  
BI 404 Cell Biology (3)  
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)

**DNA ANALYSIS OPTION – 27 hours**

BI 173 Cell/Organismal Biology (4)  
BI 245 Lab Methods in Biotechnology (3)  
BI 283 Genetics (4)  
BI 310 General Microbiology (4)  
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)

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## **FORENSIC CHEMISTRY OPTION – 26 hours**

- CH 343 Adv Organic Chem (3)
- CH 420 Forensic Chemistry (4)
- CH 533 Biochemistry Lab (2)
- CH 575 Chemical Instrumentation (4)
- CJ 350 Criminalistics (3)
- EV 460 Introduction to Toxicology (3)
- FS 550 Crime Lab I: Microscopy (2)
- FS 552 Crime Lab II: Blood & Fluids (2)
- MA 423 Statistical Analysis for Forensic Science (3)

## **COMMERCIAL MULTIMEDIA**

### **81 Hour Major – No Minor Required**

#### **Required Courses:**

- 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)
- GM 326 Interactive Multimedia (3)
- GM 385 HD/SLR Video Capture (3)
- GM 490 Adv Graphics Projects (3)
- IM 300 Technical Communication (3)
- MA 134 College Algebra (3)
- PG 284 Photo Fundamentals (3)
- PG 285 Comm Photo Lighting (3)
- PG 286 Comm Studio Photo (3)
- PG 384 Comm Photo I (3)

#### **Choose one course:**

- MA 133 Plane Trigonometry (3)
- MA 223 Elementary Prob & Stats (3)

#### **Choose one option:**

### **COMPUTER & MULTIMEDIA GRAPHICS**

- GM 380 3D Modeling & Animation Prod (3)
- GM 386 Interactive Multimedia & Animation (3)
- GM 480 3D Animation Pipeline (3)
- IM 301 Industrial Safety (3)
- IM 311 Statistical Process Control (3)
- IM 419 Industrial Supervision (3)
- IM 506 Projects in IET (3)
- MN 220 Engineering Econ Analysis (3)
- MN 260 Tech Computer Progr Appl (3)
- PH 106 Physical Concepts (3)
- SW 207 Understand Cult/Soc Diversity (3)
- TN 255 Microcomputer Maint & Trblshtng (3)
- UI 410 Manuf Res in Global Society (3)

### **COMMERCIAL PHOTOGRAPHY**

- AR 104 2D Design (3)
- AR 201 Color Composition (3)
- ER 361 Prin of Entrepreneurship (3)
- IU 321 Creative Problem Solving (3)
- MC 101 Mass Comm & Society (3)

- MC 310 Advertising Comm Strat (3)
- MC 312 Advertising Creative Conc (3)
- MC 429 Media Management (3)
- MK 301 Principles of Marketing (3)
- PG 300 Adv Lighting Tech (3)
- PG 325 Pract of Comm Photo (3)
- PG 484 Comm Photo II (3)

#### **Choose one course:**

- ER 561 Bus Planning for New Ventures (3)
- MK 343 Integ Marketing Comm (3)
- MK 555 Internet Marketing (3)

## **COMMUNICATION DISORDERS**

### **35 Hour Major - Minor Required**

*(See Admission to Communication Disorders Program criteria under Admissions, page 19)*

#### **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/Intrvntn Spch/Lang 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)

#### **Additional Requirements:**

- BS 103 Human Biology (3)
- EN 140 Rhetoric & Critical Thinking (3)
- MA 155 Statistical Reasoning (3)\*
- PS 103 U.S. Political Systems (3)
- PY 101 Psych Perspectives/Hum Behr (3)
- SC 105 Fund of Oral Communication (3)
- US 105 American History I (3)

#### **OR**

- US 107 American History II (3)

#### **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.

## **COMPUTER INFORMATION SYSTEMS**

### **82 Hours**

#### **Minor required for some tracks**

##### **Core Courses:**

- IS 003 Computer Info Systems Assmnt (0)
- IS 130 Application Development 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 360 Mobile Application Development (3)
- IS 375 Database & Info Systems (3)
- IS 445 Systems Analysis & Design (3)
- IS 448 IS/IT Project Management (3)
- IS 465 Mgmt Support Systems (3)
- IS 495 Senior Seminar (1)
- IU 309 Prof Writing for Science/Technology (3)
- IU 315 Ethics in the Cyber World (3)
- MA 139 Applied Calculus (3)
- MA 223 Probability & Statistics (3)
- UI 450 Capstone Experience (3)

##### **Choose One Track:**

#### **Track 1 – Business Administration**

##### **Required Minor:**

Business Administration Minor

##### **Required Courses:**

- AC 330 Accounting Analytics (3)
- IS 440 Web Design for Elec Commerce (3)
- IS 575 IS/IT Strategy & Mgmt (3)
- MK 555 Internet Marketing (3)

#### **Track 2 - Commerce**

##### **Required minor - Choose one from list:**

- Accounting minor
- Economics minor
- International Business minor
- Management minor
- Marketing: Integrated Marketing Communications minor
- Marketing: Marketing Management minor
- Marketing: Retail Management minor
- Marketing: Sales Management minor

##### **Required courses:**

- IS 440 Web Design for Elec Commerce (3)
- IS 575 IS/IT Strategy & Mgmt (3)

#### **Additional requirements – Choose 6 to 9 hours, depending on minor chosen:**

- AC 222 Prin of Managerial Acctg (3)
- AC 375 Financial Statement Analysis (3)
- EC 225 Prin of Macroeconomics (3)
- FI 361 Financial Management (3)
- IM 411 Total Quality Assurance (3)
- MG 301 Principles of Management (3)
- MK 301 Principles of Marketing (3)

#### **Track 3 - Game Programming**

##### **Required courses:**

- AR 104 2D Design (3)
- AR 323 Art & New Technology (3)
- 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)
- CS 373 Intro to Game Programming (3)
- CS 375 Computer Graphics (3)
- CS 473 3D Game Programming (3)
- MA 345 Linear Algebra (3)

#### **Track 4 - Information Assurance**

##### **Required Minor:**

Cybersecurity minor

##### **Additional requirements - Choose 6 hours:**

- CS 315 C and the Unix Environment (3)
- CY 410 Web Applications Security (3)
- CY 420 Computer Forensics (3)
- EP 305 Digital System Design (3)
- ET 245 Logic Circuits (3)
- ET 366 Microcontrollers (3)
- TN 375 Network Rout Protocols/Concepts (3)
- TN 435 Network Security (3)

#### **Track 5 – Multimedia programming**

##### **Required courses:**

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 300 Computer Science III (4)
- CS 440 Database (3)
- MC 221 Media Elements (3)

##### **Additional requirements - Choose 12 hours:**

- AR 104 2D Design (3)
- AR 323 Art & New Technology (3)
- CS 315 C & the Unix Environment (3)
- CS 331 Application Programming (3)
- CS 403 Information Retrieval (3)
- GM 180 Intro to Technical Graphics (3)
- GM 200 Vector & Bitmapped Graphics (3)
- MC 310 Advertising Analysis/Strategy (3)

#### **Track 6 - Networking**

##### **Required minor:**

Computer Networking minor

## Required courses:

- 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)
- CS 480 Data Communications (3)

## Track 7 – Science

### Required minor - Choose one from list:

- Biology minor
- Chemistry minor
- Electronics Technology minor
- Engineering Physics minor
- Industrial Management minor
- Mathematics minor
- Physics minor

### Additional requirements – Choose 10-15 hours, depending on minor chosen:

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 300 Computer Science III (4)
- CS 2xx
- CS 3xx
- CS 4xx

## Track 8 - Web Page Design & Multimedia Computing

### Required courses:

- AR 104 2D Design (3)
- GM 180 Intro to Technical Graphics (3)
- IS 440 Web Design for Elec Commerce (3)
- MC 221 Media Elements (3)
- PG 284 Photography Fundamentals (3)

### Additional requirements - Choose 15 hours:

- AR 323 Art & New Technology (3)
- GM 200 Vector & Bitmapped Graphics (3)
- GM 282 Vector Graphics (3)
- GM 380 3D Modeling/Animation Production (3)
- GM 386 Interactive Multimedia/Animation (3)
- GM 480 3D Animation Pipeline (3)
- MC 310 Advertising Analysis & Strategy (3)
- MC 312 Advertising Creative Concepts (3)
- MC 318 Advertising Digital Applications (3)

## Track 9 – Web Programming

### Required courses:

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CS 300 Computer Science III (4)
- AR 323 Art & New Technology (3)
- CS 331 Application Programming (3)
- CS 403 Information Retrieval (3)
- CS 440 Database (3)
- GM 180 Intro to Technical Graphics (3)
- IS 440 Web Design for Elec Commerce (3)

## 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)
- MA 140 Analytic Geometry & Calculus I (5)
- MA 145 Analytic Geometry & Calculus II (4)
- MA 223 Probability & Statistics (3)
- MA 345 Linear Algebra (3)
- IU 309 Prof Writing for Science/Technology (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 301 Found of Health Comm (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 Integ Marketing Comm (3)
- MK 344 Consumer Behavior (3)
- MK 345 Intro to Business Research (3)
- MK 349 Retail Marketing (3)
- MK 547 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 Hour Major – Minor required unless noted**

*A grade of 'C' or better is required in all courses within the major.*

**Required Courses:**

- CJ 100 Intro to Criminal Justice (3)
- CJ 110 Intro to Law Enforcement (3)
- CJ 115 Intro to Criminal Courts (3)
- CJ 125 Intro to Corrections (3)
- CJ 320 Criminal Law (3)
- CJ 370 Juvenile Justice (3)
- CJ 425 Planning/Resrch in Crim Justice (3)
- CJ 499 Issues in Justice Admin (3)
- SO 305 Race, Gender, Class & Crime (3)
- SO 360 Theories of Crime (3)

**Choose One Track:**

**Academic/University – Minor required**

- CJ 303 Correctional Institutions (3)
- CJ 310 Advanced Police Administration (3)
- CJ 330 Criminal Investigations (3)
- CJ 335 Police Operations (3)
- CJ 350 Criminalistics (3)
- CJ 355 Constitutional Rights of Inmates (3)
- CJ 365 Community-Based Corrections (3)
- CJ 375 Victimology (3)
- CJ 400 Crisis Management (3)

- CJ 422 Criminal Procedures (3)
- CJ 430 Policing in an Info Age (3)
- CJ 435 Senior Seminar (3)
- CJ 440 Theories/Methods of Offender Rehab (3)
- CJ 471-473 Independent Study (1-3)\*\*
- CJ 491 Internship in Criminal Justice (3)\*\*
- CJ 510 Comp Crim Justice Systems (3)
- CJ 525 Crime & Crim Justice Policy (3)
- CJ 834 Field Exp in Corrections (3)
- SO 242 Statistics for Soc Scientists (3)
- SO 300 Organized/White-Collar Crime (3)
- SO 444 Deviant Social Behavior (3)
- SR 444 Treatment Strategies (3)

**Law Enforcement Academy\* – No minor required**

*(for students who have been admitted to the SEMO Law Enforcement Academy)*

- LE 199 Basic LEA I (6)
- LE 299 Basic LEA II (6)
- LE 399 Basic LEA III (6)
- LE 499 Basic LEA IV (6)

*\*Students who can show successful completion of POST certification in any law enforcement academies in the state of Missouri will earn credit for LE 199/299/399/499 for 24 credits that can be used toward a Bachelor of Science degree with a major in Criminal Justice.*

*\*\*No more than 3 credits of Independent Study (CJ471-473) and no more than 6 credits of Internship (CJ491) may be counted toward degree.*

**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 300 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 Understand Cultural/Social Diversity (3)
- TN 254 Network Communications (3)

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- TN 255 Microcomputer Maintenance (3)
- TN 275 Intro to Networks (3)
- TN 375 Routing/Switching Essentials (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.

## EMERGENCY PREPAREDNESS

### 69 Hour Major – No Minor Required

#### Required Courses:

- BI 471 Internship (1)
- CH 185 General Chemistry I (5)
- CH 234 Organic & Biological Chemistry (3)
- EA 507 School & Campus Safety (3)
- EV 425 GIS Planning for Emerg Mgmt (3)
- EV 447 Fund of Disaster/Emerg Mgmt & Planning (3)
- EV 448 Disaster/Emerg Planning & Response (3)
- EV 449 Vulnerability, Risk Reduct/Crit Incdnt Mgmt (3)
- EV 454 Risk Assessment Applications (3)
- EV 456 Fund Risk Comm in Emerg Mgmt (3)
- EV 551 Hazardous Materials Assessment (3)
- GO 445 Geographic Information Systems (3)
- HL 320 Community Health (3)
- MA 134 College Algebra (3)
- MG 301 Principles of Management (3)
- PS 310 Govt/Politics in the American States (3)
- PS 415 Govt Budgeting Process (3)
- PS 418 Public Policy Analysis (3)
- PS 425 Admin Law & Procedures (3)
- SC 355 Relational Comm Strategies (3)
- SC 560 Organizational Communication (3)
- SO 375 Collective Behavior (3)
- SW 242 Stats for Social Scientists (3)

#### Additional requirements:

*(Some courses may fulfill University Studies requirements)*

- BS 105 Environmental Biology (3)
- GO 150 Earth Science: Environ Hazards (3)
- HL 120 Health Perspectives (3)
- PS 103 US Political Systems (3)
- SC 105 Fundamentals of Oral Communication (3)
- SO 120 Cities & Society (3)
- IU 309 Writing for Science & Technology (3)
- UI 387 Environmental Law (3)
- UI 429 Environmental Ethics (3)

## 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)
- 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: 30 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 244 Analytic Geometry & Calculus III (4)
- 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 System Design (3)
- EP 310 Microcontroller/Embedded Systems (3)
- EP 461 Computer Applications (3)

#### ELECTRICAL APPLICATIONS (18 HOURS)

- EP 305 Digital System Design (3)
- EP 310 Microcontroller/Embedded Systems (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**

**100 Hour Major - No Minor Required**

CH 181 Basic Principles of Chemistry (5)

ET 304 Intro Prog Logic Circuits (3)

IM 300 Technical Communications (3)

IM 301 Industrial Safety Supervision (3)

IM 311 Statistical Process Control (3)

MA 137 Precalculus (5)

MA 140 Analytic Geometry & Calculus I (5)

MA 144 Integral Calculus & Differential Equations (5)

MN 220 Engineering Economic Analysis (3)

MN 260 Technl 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 Understand Cultural/Social Diversity (3)

UI 319 Science, Tech, & Society (3)

UI 410 Manufacturing Research (3)

**Choose One 33 Hour Option:**

**ELECTRICAL AND CONTROL:**

ET 160 Basic Electricity/Electronics (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 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**

**90-94 Hour Major - No Minor Required**

**Required Courses:**

BI 163 Evolution and Ecology (4)

BI 332 General Ecology (3)

BS 105 Environmental Biology (3)

CH 185/085/005 General Chemistry (5)

CH 186 Found of Inorganic Chemistry (3)

EC 344 Environmental Economics (3)

EN 190 Writing and the Environment (3)

EV 201 Environmental Science Seminar I (1)

EV 400 Health Physics (3)

EV 401 Environ Science Seminar II (1)

EV 454 Risk Assessment Applications (3)

EV 481-483 Internship Environ Science (3)

**OR**

EV 491-493 Research in Environmental Science (3)

EV 3xx or EV 4xx – one additional EV course at upper 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 120/020 Introductory Physics I (5)

UI 429 Environmental Ethics (3)

**Choose six hours:**

UI 331 Biochemistry I (3)

UI 360 Recycling & Waste Management (3)

UI 370 Media Ethics (3)

UI 373 Earth & Life Through Time (3)

UI 386 Environmental Health (3)

UI 387 Environmental Law & Public Policy (3)

**CHOOSE ONE OPTION**

**BIOLOGY (25 hours)**

BI 173 Cell/Organismal Biology (4)

**Choose two courses:**

BI 310 General Microbiology (4)

BO 310 Plant Biology (4)

ZO 310 Animal Biology (4)

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## Choose six hours:

- BI 283 Genetics (3)
- 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 & Management of Wetlands (3)
- BI 441 Virology (3)
- BI 442 Immunology (3)
- BI 443 Epidemiology (3)
- BI 445 Microbial Physiology (3)
- BI 452 Freshwater Ecology (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 Lab (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 430 Invertebrate Zoology (4)
- ZO 459 Mammalogy (3)
- ZO 460 Herpetology (3)
- ZO 466 Ornithology (3)
- ZO 469 Vertebrate Adaptations (3)
- ZO 478 Ichthyology (3)

## Additional required courses:

- CH 187 Inorg Chem & Qual Analysis (2)
- CH 341 Found of Organic Chemistry (4)
- CH 342 Organic Chemistry Lab I (1)

## BUSINESS (24 Hours)

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- AD 101 Introduction to Microcomputer Appl (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 (25 Hours)

- CH 187 Inorg Chem & Qual Analysis (2)
- CH 271 Foundations of Analytical Chemistry (4)
- CH 311 Foundations of Physical Chemistry (4)
- CH 341 Foundations of Organic Chemistry (4)
- CH 342 Organic Chemistry Lab I (1)
- PH 121 Introductory Physics II (5)
- UI 443 Professional Experience in Chemistry (3)

## Choose one course:

- CH 313 Physical Chemistry Laboratory (3)
- CH 343 Advanced Organic Chemistry (3)
- CH 344 Organic Chemistry Lab II (2)
- CH 391-393 Undergraduate Research (1-3)
- CH 447 Advanced NMR Techniques (2)
- CH 531/UI 331 Foundations of Biochemistry (3)
- CH 545 Organic Preparations and Characterizations (3)
- CH 575 Chemical Instrumentation (4)

## ENVIRONMENTAL HEALTH (23-25 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 4xx courses above will satisfy the 3 hours of elective credit in the Environmental Science core course requirements.

- UI 386 Environmental Health (3)

**NOTE:** UI 386 will satisfy 3 hours of UI 3xx credit in the Environmental Science core course requirements

## Choose six hours:

- BI 485 Topics in Biology (3)
- BI 543/544 Pathogenic Microbiology & Lab (3)
- GO 445 Geographic Information Systems (GIS) (3)
- GO 520 GIS Application (3)
- HL 320 Community Health (3)

## Additional required courses:

- CH 187 Inorg Chem & Qual Analysis (2)
- CH 234 Organic & Biological Chemistry (3)

## OR

- CH 341 Foundations of Organic Chemistry (4)

## AND

- CH 342 Organic Chemistry Lab I (1)

## GEOPROCESSING AND SOILS (22 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 Classification & Resource Management (3)

## Choose one: (3 hours)

- AO 427 Soil Fertility & Plant Nutrition (3)
- BI 440 Ecology & Management of Wetlands (3)

## Additional requirements:

- CH 187 Inorg Chem & Qual Analysis (2)
- CH 341 Organic Chemistry I (4)
- CH 342 Organic Chemistry Lab I (1)

## POLICY & COMMUNICATION (21 hours)

- IU 309 Writing for Science & Technology (3)

PS 230 American Public Policy (3)

**OR**

PS 280 Introduction to Global Issues (3)

PS 418 Public Policy Analysis (3)

PS 491 Topics in Political Science (3)

SC 200 Advanced Public Speaking (3)

UI 386 Environmental Health (3)

UI 387 Environmental Law & Public Policy (3)

**NOTE:** The two UI courses above will satisfy the 6 hours of UI 3xx credit in the Environmental Science core course requirements.

## **GEOGRAPHIC INFORMATION SCIENCE**

**64 hours required – No Minor Required**

AG 440 Precision Agriculture (3)

AG 444 Spatial Analysis (3)

CS 177 Programming for Scientists & Engr (3)

EV 425 GIS Planning for Emergency Response (3)

EV 483 Internship (3)

GG 150 Cultural Geography (3)

GG 445 Intro to Computer Cartography (3)

GO 110 Physical Geology (3)

GO 340 Remote Sensing (3)

GO 445 Geographic Information Systems (3)

GO 520 GIS Application (3)

IS 130 Application Development I (3)

IS 175 Computer Information Systems I (3)

IS 275 Computer Information Systems II (3)

IS 330 Application Development II (3)

IU 314 GeoInfo Science Today (3)

MA 137 Precalculus (5)

MA 138 Discrete Math I (3)

MA 140 Analyt Geom & Calc I (5)

MA 223 Elem Prob & Stats (3)

## **HEALTH COMMUNICATION**

**36 hours required – Minor Required**

HA 300 Management of Healthcare (3)

HA 585 Healthcare Marketing (3)

HL 113 Medical Terminology (3)

HL 320 Community Health (3)

HL 4xx General Principles of Health Promotion (3)\*

**OR**

UI 354 Lifestyle Enhancement (3)\*

PY 555 Health Psychology (3)

SC 001 Exit Interview (0)

SC 215 Intercultural Communication (3)

SC 301 Foundations of Health Communication (3)

SC 335 Interviewing: Principles and Practices (3)

SC 320 Group Communication and Decision Making

**OR**

SC 510 Leadership and Team Building (3)

SC 483 Internship in Communication Studies (3)

SC 560 Organizational Communication (3)

**OR**

UI 425 Persuasion (3)

**Required Support Courses:**

*Some courses may also fulfill University Studies requirements.*

CF 124 Children's Health, Nutrition and Safety (3)

**OR**

FN 235 Nutrition for Health (3)

EN 140 Rhetoric & Written Comm (3)

HL 120 Health Perspectives (3)

MC 101 Mass Communication and Society (3)

SC 105 Fundamentals of Oral Communication (3)

**OR**

SC 155 Interpersonal Communication (3)

UI 345 Nonverbal Communication (3)

UI 352 Medical Ethics (3)

UI 412 American Healthcare Systems and Issues (3)

*\*Students with a strong science background could substitute HL 432 Health Promotion Programs with instructor consent.*

## **HEALTH MANAGEMENT**

*\*A grade of 'C' or higher is required in all courses in the core, option and all additional requirements*

**62-73 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 (4)

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 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)

TX 251 Intro to Athletic Injuries (3)

**Electives - 6 Hours:**

FN 200-500 approved by advisor (3)

HL 300-500 approved by advisor (3)

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## 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 Integ Marketing Comm (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)

## HEALTH SCIENCES

### 89-90 Hours Required – No Minor Required

*Student must attain a grade of 'C' or higher in every major course.*

#### Core Courses

BS 151 Biological Reasoning (3)

### OR

FN 235 Nutrition for Health (3)  
BS 113 Anatomy and Physiology I (4)  
BS 114 Anatomy and Physiology II (4)  
CH 185 General Chemistry I (5)  
CH 186 Foundations of Inorganic Chemistry (3)  
CH 187 Inorg Chem & Qual Analysis (2)  
FN 530 Pathophysiology: Implications for Nutrition and Exercise Science (3)  
HL 105 Introduction to Allied Health Professions (3)  
HL 113 Medical Terminology (3)  
HL 120 Health Perspectives (3)  
MA 134 College Algebra (3)  
PH 120 Introductory Physics I w/Lab (5)  
PH 121 Introductory Physics II w/Lab (5)  
PY 101 Psych Persp on Human Behavior (3)  
PY 220 Psych Development Across Life Span (3)  
PY 271 Research Design and Analysis I (3)

### OR

SW 242 Statistics for Social Scientists (3)

PY 440 Abnormal Psychology (3)

### OR

PY 466 Introduction to Physiological Psychology(3)  
SC 155 Interpersonal Communication (3)  
**GENERAL HEALTH SCIENCES OPTION**  
BI 310 General Microbiology (4)  
BI 472 Internship in Biology (2)  
CH 341 Foundations of Organic Chemistry (4)  
CH 342 Organic Chemistry Lab I (1)

### Physical Rehabilitation electives – choose 9 hours

FN 255 Nutrition I (3)  
FN 530 Pathophysiology (3)  
HL 265 Therapeutic Modalities (3)  
HL 321 Advanced Injury Assessment I (3)  
HL 322 Advanced Injury Assessment II (3)  
HL 323 Advanced Injury Assessment III (3)  
HL 331 Exercise Physiology w/Lab (4)  
HL 444 Rehabilitation of Sports Injury (3)  
HL 511 Applied Anatomy (3)  
TX 251 Introduction to Athletic Injuries (3)

### Psychosocial electives – choose 9 hours

AN 101 Observing Cultures (3)  
PY 362 Learning & Memory (3)  
PY 525 Maturity & Aging (3)  
PY 555 Health Psychology (3)  
SO 102 Soc, Culture & Soc Behvr (3)

### PRE-PHYSICAL/OCCUPATIONAL THERAPY OPTION

*A student must maintain an overall grade point average of 3.0 to remain in option.*

FN 255 Nutrition I (3)  
HL 265 Therapeutic Modalities (3)  
HL 321 Advanced Injury Assessment I (3)  
HL 322 Advanced Injury Assessment II (3)  
HL 323 Advanced Injury Assessment III (3)  
HL 331 Exercise Physiology w/Lab (4)  
HL 444 Rehabilitation of Sports Injury (3)  
HL 511 Applied Anatomy (3)  
TX 251 Introduction to Athletic Injuries (3)

## HEALTHCARE MANAGEMENT

### 50 Hour Major – No Minor Required

#### Required Courses:

EC 585 Healthcare Economics (3)  
HA 300 Intro to Healthcare Mgmt (3)

### OR

MG 301 Principles of Management (3)  
HA 473 Internship in Healthcare (3)  
HA 510 Healthcare Operations (3)  
HL 113 Medical Terminology (3)  
HL 320 Community Health (3)  
MG 252 Business Communication (2)

- MG 356 Found of Hum Resource Mgmt (3)  
MG 362 Management Skills (3)  
PY 101 Psych Perspectives on Hum Behr (3)  
PY 271 Research Design & Analysis I (3)  
PY 555 Health Psychology (3)  
SC 301 Foundations of Health Communication (3)

**Choose one Option:**

**INFORMATICS (12 hours)**

- CY 501 Intro to Cybersecurity (3)

**OR**

- MG 575 Info Technology Mgmt (3)  
HA 540 Healthcare Informatics (3)  
HA 545 Healthcare Database Systems (3)  
MI 375 Management Info Systems (3)

**QUALITY & PATIENT SAFETY (12 hours)**

- HA 520 Intro to Healthcare Quality (3)  
HA 525 Advanced Healthcare Quality (3)  
HA 530 Intro to Patient Safety (3)  
HA 535 Advanced Patient Safety (3)

**Additional Requirements: 22-24 Hours**

- AD 101 Intro to Microcomputer Appl (3)

**OR**

- EP 100 Physics & Engr Concepts (1)  
BS 103 Human Biology (3)\*  
EC 215 Prin of Microeconomics (3)\*  
HL 120 Health Perspectives (3)\*  
MA 134 College Algebra (3)\*  
UI 386 Environmental Health (3)  
UI 352 Medical Ethics (3)

**OR**

- UI 400 Business Ethics (3)  
UI 412 American Healthcare Systems & Issues (3)

*\*Fulfills University Studies requirement*

**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 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)  
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**

**45 Hour Major – No Minor Required**

**Required Courses:**

- HM 150 Intro to Hospitality Mgmt (3)  
HM 205 Basic Culinary Techniques (3)  
HM 260 Meeting & Event Mgmt (3)  
HM 270 Hotel & Resort Operations (3)

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- HM 304 Food, Bev & Labor Cost Cntrls (3)
- HM 325 Hospitality Law (3)
- HM 350 Advanced Culinary Practices (3)
- HM 390 Hosp Sales & Marketing (3)
- HM 406 Hospitality Strategic Mgmt (3)
- HM 416 Quantity Food Production (4)
- HM 473 Internship in Hospitality Mgmt (12)
- MG 252 Business Communication (2)

## **Additional Requirements: 33 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)\*
- EN 140 Rhetoric & Critical Thinking (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)
- SC 105 Fund of Oral Communication (3)\*

### **OR**

- SC 155 Fund of Interpersonal Comm (3)\*
- UI 400 Business Ethics (3)

## **Choose one of the following:**

- ER 361 Prin of Entrepreneurship (3)
- HM 493 Ind Study in Hosp Mgmt (3)
- MK 342 Professional Selling (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 Intro to Fam Process & 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 & Appl: Preschool (3)
- CF 285 Learn Theory/App! Infants & Toddlers (3)
- CF 306 History/Theory of Child Dvlpmnt (3)
- CF 310 School Age Child Care (3)
- CF 330 Middle Childhood/Youth Issues (3)
- CF 360 Family Life Education (3)
- CF 410 Culture, Ethnicity, & 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)

### **OR**

- CF 520 Family Assessment (3)
- HS 301 Found Child Maltreat & Advoc (3)
- HS 401 Child Advoc II-Prof & Sys Resp (3)
- HS 402 Child Advoc III - Respond to the Survivor (3)

## **Additional requirements:**

*(Some courses may fulfill University Studies requirements)*

- BS 103 Human Biology (3)
- FE 200 Family Resource Management (3)
- LI 243 Children's Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- 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**

### **84 Hour Major – Minor required where noted**

#### **Required Courses:**

- AD 101 Intro to Microcomputer Appl (3)
- BS 113 Anatomy & Physiology I (4)
- BS 114 Anatomy & Physiology II (4)
- FN 235 Nutrition for Health (3)
- FN 240 Intro to Food Science (3)
- FN 255 Nutrition I (3)
- FN 340 Professional Dietetic Seminar (1)
- FN 355 Lifespan Nutrition (3)
- FN 540 Community Nutrition (3)
- HL 303 Research Methods (3)

### **OR**

- PY 271 Research Design I (3)
- PY 101 Psych Perspectives/Human Behavior (3)

## **Choose one advising track:**

### **Didactic Program in Dietetics Track – no minor required**

- AC 221 Principles of Accounting I (3)
- BS 240 Microorganisms/Human Host (3)
- CH 181 Basic Prin of Chemistry (5)

- CH 234 Organic & Biol Chemistry (3)
- FN 310 Food & Culture (3)
- FN 320 Essentials of Food Science (4)
- FN 370 Nutrition Assessment (2)
- FN 401 Sports Nutrition (3)
- FN 415 Prin/Pract of Foodservice for Dietitian (3)
- FN 450 Food Service Operations (4)
- FN 502 Nutrition II (3)
- FN 503 Medical Nutrition Therapy I (4)
- FN 504 Medical Nutrition Therapy II (4)
- FN 505 Senior Dietetic Seminar (1)
- FN 525 Nutrition Counseling (3)
- HE 520 Tech/Teaching Nutrition & Health Ed (3)
- HM 304 Food, Beverage & Labor Cost Cntrl (3)
- MA 134 College Algebra (3)

**Nutrition Science Track – no minor required**

- BI 163 Ecology & Evolution (4)
- BI 173 Cell/Organismal Biology (4)
- BI 283 Genetics/Cell Biology (4)
- BI 310 General Microbiology (4)
- CH 185 General Chemistry I (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)
- CH 343 Adv Organic Chem (3)
- CH 344 Organic Chem Lab II (2)
- CH 531 Biochemistry (3)
- FN 320 Essentials of Food Science (4)
- FN 502 Nutrition II (3)
- MA 134 College Algebra (3)
- PH 120 Introductory Physics I (5)
- PH 121 Introductory Physics II (5)

**Nutrition and Wellness Track – minor required**

- FN 370 Nutrition Assessment (2)
- FN 503 Medical Nutrition Therapy I (4)
- FN 520 Nutrition & Aging (3)
- HE 520 Tech/Teaching Nutrition & Health Ed (3)
- HL 111 Intro to Health Management (3)
- HL 120 Health Perspectives (3)
- HL 260 Health Promotion Practicum (3)
- HL 320 Community Health (3)
- HL 332 Lifestyle Disease Risk Reduction (3)
- HL 432 Health Promotion Programs (3)
- HL 490 Program Planning/Evaluation (3)
- MA 123 Survey of Mathematics (3)

**OR**

- MA 155 Statistical Reasoning (3)

**HUMAN ENVIRONMENTAL STUDIES:  
FAMILY STUDIES OPTION**

**51 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 Fam Process & Systems (3)
- CF 220 Young & Middle Adulthood (3)
- CF 340 Family Policy Law & Advocacy (3)
- CF 360 Family Life Education (3)
- CF 385 Stress, Violence, Trauma & Families (3)
- CF 402 Relationships of Commitment (3)
- CF 405 Work with Special Pop & Diversity (3)
- CF 430 Parent-Child Interaction (3)
- CF 485 Family Studies Senior Seminar (3)
- CF 512 Family & Comm Resources (3)
- CF 520 Family Assessment (3)
- CF 565 Family Service Internship (6)

**Additional Requirements: 9 hours**

- FE 200 Family Resource Management (3)
- UI 303 The Family Experience (3)

**OR**

- UI 455 Understanding Men/Male Develop (3)
- UI 445 Social Perspectives of Sexuality (3)

**HUMAN ENVIRONMENTAL STUDIES:  
FASHION MERCHANDISING OPTION**

**51 Hour Major – Fashion Entrepreneurship Minor  
Required**

**Required Courses:**

- FA 104 Beyond Project Runway (3)
- FA 110 Intro to Fashion Merchandising (3)
- FA 114 Visual Merchandising (3)
- FA 120 Clothing Construction (3)
- FA 207 Textiles (3)
- FA 250 History of Costume I (3)
- FA 251 History of Costume II (3)
- FA 300 Professional Image & Behavior (3)
- FA 310 Fashion Forecasting (3)
- FA 315 Retail Buying (3)
- FA 350 Apparel Aesthetics (3)
- FA 421 Retail Strategy (3)
- FA 450 Global Fashion Economics (3)
- FA 530 Internship (6)

**Choose 6 hours:**

- FA 121 Intermediate Clothing Constr (3)
- FA 480 Fashion Merchandising Practicum (3)
- FA 520 Survey of National Markets (3)
- FA 521 Survey of International Markets (3)

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## Additional requirements – 18 hours:

- EC 101 Economic Problems & Policies (3)
- GM 180 Intro to Graphic Tech (3)
- MG 301 Principles of Management (3)
- MG 356 Found of Human Resources Management (3)
- UI 355 Consumer & the Market (3)
- UI 480 Soc/Psych Aspects of Dress (3)

## HUMAN ENVIRONMENTAL STUDIES: INTERIOR DESIGN OPTION

### 70 Hour Major - No Minor Required

#### Required Courses:

- DS 001 Portfolio Review (0)
- DS 104 Exploring Interior Design (3)
- DS 111 Tech Drafting for Designers (3)
- DS 205 History of Interiors I (3)
- DS 206 History of Interiors II (3)
- DS 207 Interior Systems (3)
- DS 209 Constr Codes for Designers (3)
- DS 211 Basic Kitchen/Bath Design (4)
- DS 218 Form & Space for Designers (3)
- DS 220 Design Communications (3)
- DS 313 Sustainable Design (4)
- DS 314 Multicultural Design (4)
- DS 320 Adv Design Communications (3)
- DS 330 Lighting/Electrical Systems (3)
- DS 332 Materials for Interior Environ (3)
- DS 410 Hospitality Design (4)
- DS 411 Adv Kitchen/Bath Design (4)
- DS 412 Contract Design (4)
- 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 Matls & Tech (3)
- MG 301 Principles of Management (3)

#### Additional Requirements: 39 Hours

- AH 210 Art History Survey II (3)
- AN 101 Observing Other Cultures (3)\*
- CM 126 Computer Aided Arch Drafting (3)
- CM 226 Residential Arch Drftg & Design (3)
- CM 322 Comm Arch Drftg & Design (3)
- EC 101 Econ Problems & Policies (3)\*
- MA 123 Survey of Mathematics (3)\*

#### OR

- MA 134 College Algebra (3)\*
- MK 301 Principles of Marketing (3)
- PY 220 Psych Develop Across Lifespan (3)\*
- SC 105 Fund of Oral Communication (3)\*

- UI 337 Issues in Modern Architecture (3)

#### OR

- UI 343 Transcultural Experience (3)
- UI 340 Housing Perspectives (3)
- UI 401 American Cultural Landscapes (3)

\*Some courses may fulfill University Studies requirements.

## INDUSTRIAL DISTRIBUTION

### 78-80 Hour Major – No minor required

#### Required Courses:

- AC 221 Prin of Accounting I (3)
- AC 222 Prin of Accounting II (3)
- BL 255 Legal Environ of Bus (3)
- EG 492 Modeling & Simulation (3)
- IM 300 Technical Communication (3)
- IM 301 Indus Safety & Supervision (3)
- IM 311 Statistical Process Cntrl (3)

#### OR

- QM 257 Business Stats I (3)
- IM 313 Facilities Planning (3)
- IM 405 Innov for a Lean Entrprs (3)
- IM 417 Manuf Resources Anal (3)
- MG 301 Principles of Management (3)
- MG 354 Business Negotiation (3)
- MK 301 Prin of Marketing (3)
- MK 342 Professional Selling (3)
- MK 346 Distribution Mgmt (3)
- MK 347 Transportation (3)
- PH 106 Physical Concepts (3)
- QM 258 Business Statistics II (3)
- QM 352 Quantitative Analysis (3)
- QM 558 Prin of Supply Chain Mgmt (3)

#### Choose one course:

- CH 180 Chem in Our World (3)
- CH 181 Basic Prin of Chem (5)
- CH 185 General Chemistry (5)

#### Choose 15 hours from:

- CM 126 Computer Aided Draft & Desgn (3)
- CM 226 Residential Arch Draft & Design (3)
- CM 315 Constr Contracts/Legal Issues (3)
- CM 325 Bldg Mechanical/Electrical Systems (3)
- ET 160 Basic Electricity/Electronics (3)
- ET 304 Intro Prog Logic Circuits (3)
- ET 374 Industrial Electronics (3)
- EV 551 Hazardous Matls Assess (3)
- FM 504 Facilities Management (3)
- FM 565 Bldg Automation & Tech (3)
- MN 120 Fund of Engr Design Process (3)
- MN 170 Engr Materials & Testing (3)
- MN 203 Engr Materials & Processes I (3)

#### Additional requirements:

- BS 105 Environmental Biology (3)

- MA 134 College Algebra (3)  
 MN 220 Engr Econ Analysis (3)

**OR**

- EC 215 Principles of Microeconomics (3)  
 SW 207 Understand Cult & Soc Diversity (3)  
 UI 400 Business & Ethics (3)  
 UI 410 Manuf Research in Global Soc (3)

## INDUSTRIAL & SYSTEMS ENGINEERING

### 81-82 Hour Major – No minor required

#### Required Courses:

- EG 201 Systems Engineering (1)  
 EG 492 Modeling & Simulation (3)  
 EG 5xx Operations Research (3)  
 EP 100 Physics & Engr Concepts (1)  
 EP 240 Circuit Analysis (4)  
 EP 261 Engr Mechanics Statics (3)  
 EP 361 Thermal Analysis (3)  
 ET 304 Fund Program Logic Controllers (3)  
 IM 301 Industrial Safety/Suprvsn (3)  
 IM 313 Facilities Planning (3)  
 IM 315 Work Measurement (3)  
 IM 411 Total Quality Assurance (3)  
 IM 417 Manufacturing Resource Analysis (3)  
 MA 140 Analytic Geometry and Calculus I (5)  
 MA 145 Analytic Geometry and Calculus II (4)  
 MA 240 Analytic Geometry and Calculus III (3)  
 MA 345 Linear Algebra (3)  
 MA 523 Probability & Statistics I (3)  
 MN 120 Fund of Engr Design Processes (3)  
 MN 170 Engineering Materials & Testing (3)  
 MN 203 Industrial Materials & Processes I (3)  
 MN 324 Mechanical Design Processes (3)  
 MN 412 Advanced Manufacturing Systems (3)  
 PH 230 General Physics I (5)  
 PH 231 General Physics II (5)  
 UI 410 Manuf Research/Global Society (3)

#### Choose one course:

- MN 260 Tech Computer Progr Appl (3)  
 CS 155 Computer Science I (4)  
 CS 177 Prog for Scientists/Engrs (3)

#### Additional requirements:

- CH 185 General Chemistry (5)  
 MN 220 Engr Economic Analysis (3)  
 SW 207 Understand Cultural/Social Diversity (3)  
 UI 400 Business & Ethics (3)

## 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 Center for Academic Advising or visit the webpage at <http://www.semo.edu/coadvise>.

#### Required courses:

#### University Studies requirements – 42 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 323 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 78 hours outside of the MC prefix.

**NOTE:** Students taking classes within the Department of Mass Media that are at the 300-level and above will be required to have a MacBook laptop computer for use in the classroom during class time.

## MATHEMATICS

### 46-67 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 244 Analytic Geometry & Calculus III (4)
- MA 250 Foundations of Math (3)
- MA 449 Mathematical Problem Solving (3)

#### Choose One Option:

##### ACTUARIAL SCIENCE

- AC 221 Principles of Accounting I (3)
- AC 222 Principles of Accounting II (3)
- EC 215 Principles of Microeconomics (3)
- EC 225 Principles of Macroeconomics (3)
- FI 361 Financial Management (3)
- FI 362 Advanced Financial Management (3)
- MA 223 Elem Probability & Statistics (3)
- MA 375 Theory of Interest (3)
- MA 385 Financial Mathematics (3)
- MA 425 Applied Regression Analysis (3)
- MA 523 Probability & Statistics I (3)
- MA 524 Probability & Statistics II (3)
- MA 526 Actuarial Seminar (3)
- MA 575 Time Series/Forecasting (3)
- MA 585 Intro to Life Contingencies (3)

#### Choose one of the following:

- CS 155 Computer Science I (4)
- CS 177 Programming for Scientists and Engineers (3)

#### Choose two courses from the following:

- EC 351 Applied Economic Models (3)
- EC 490 Business Forecasting (3)
- FI 351 Principles of Insurance (3)
- FI 368 Investments (3)
- MA 350 Differential Equations (3)
- MA 525 Actuarial Modeling (3)
- MA 546 Advanced Calculus I (3)
- MA 550 Differential Equations (3)
- MA 580 Exp Design/Analysis of Variance (3)

#### 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 (must include at least 3 MA prefix courses):

- 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)
- 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 425 Applied Regression Analysis (3)
- MA 443 Elementary Number Theory (3)
- MA 464 Mathematical Cryptography (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)
- 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 532 Foundations of Geometry (3)
- MA 545 Linear Algebra & Matrices (3)
- MA 547 Advanced Calculus II (3)
- MA 548 Enumerative Combinatorics (3)
- MA 549 Graph Theory (3)
- MA 550 Differential Equations II (3)

### 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 532, MA 540, MA 545, MA 547, MA 548, MA 549, MA 550.**

### MEDICAL LABORATORY SCIENCE

**77-80 Hour Major - No Minor Required**

#### Required Courses:

- BI 173 Cell/Organismal Biology (4)
- BI 283 Genetics (4)
- BI 310 General Microbiology (4)
- BI 442 Immunology (3)
- BI 543 Pathogenic Microbiology (2)
- BI 544 Pathogenic Microbiology Laboratory (1)
- 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

**56 Hour Major - No Minor Required**

#### Required Courses:

- EP 100 Physics & Engineering Concepts (1)
- EP 240 Circuit Analysis (4)
- 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 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)

- UI 330 Experimental Methods I (3)

**Choose 6 Hours Approved Technical Electives\*  
Additional Requirements: 26 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 244 Analytic Geometry & Calculus III (3)
- 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)

#### OR

- PS 471 Sr Seminar in Poli Sci (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 331 The American Executive (3)
- PS 335 American Foreign Policy (3)
- PS 360 Political Parties & Voting Behavior (3)
- PS 361 Campaigns & Elections (3)
- PS 365 Legislative Process (3)
- PS 387-389 Independent Study in Poli Sci (1-3)
- PS 390 American Judicial System (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)
- UI 458 Terrorism & Political Violence (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 403 Public Personnel Administration (3)

PS 415 Government Budgeting Process (3)

PS 425 Administrative Law & Procedure (3)

PS 502 Fund of Public Administration (3)\*

PS 505 Org Theory/Behavior (3)\*

PS 518 Public Policy Analysis (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)

*\*For accelerated MPA students*

## 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 230 Ethics & Diversity in Psych (3)

PY 271 Research Design & Analysis I (3)

PY 370 Research Design & Analysis II (3)

PY 489 Adv Topics in Psychology (3)

#### OR

PY 497 Historical Development of Psychology (3)

#### Extended Core Courses: (Choose one course from each of the following four areas) (12 hours)

##### Basic/Cognitive Processes

PY 362 Learning & Memory (3)

PY 460 Cognitive Processes (3)

PY 466 Intro to Physiological Psychology (3)

##### Clinical/Personality

PY 432 Intro to Personality (3)

PY 440 Abnormal Psychology (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)

##### Social/Applied Psychology

PY 250 Applied 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 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 466 Intro to Physiological Psych (3)

PY 484 Advanced Research in Psychology (3)\*

PY 495 Internship in Psychology (3)#

PY 525 Maturity & Aging (3)

PY 531 Psychological Testing (3)

PY 555 Health Psychology (3)

*\*Requires a faculty mentor*

*#Contact Internship coordinator*

## PUBLIC HEALTH

### 98-100 Hour Major – No Minor Required

#### Required Core Courses:

BI 163 Evolution & Ecology (4)

BI 173 Cell/Organismal Biology (4)

BI 310/BS 240/BS 242 Microbiology (3-4)

BI 443/EV 443 Epidemiology (3)

BI 454/EV 454 Risk Assessment Applications (3)

BI 471/EV 481/HA 471/PS 384 Internship (1)

BS 113/013 Anatomy & Physiology I (4)

BS 114/014 Anatomy & Physiology II (4)

CH 185/085/005 General Chemistry (5)

CH 234 Organic and Biological Chemistry (3)

#### OR

CH 341 Found of Organic Chem (4)

EC 215 Prin of Microeconomics (3)  
EV 401 Environ Sci Seminar (1)  
HL 120 Health Perspectives (3)  
HL 320 Community Health (3)  
IS 175 Information Systems I (3)  
IU 309 Prof Writing for Science/Tech (3)  
MA 134 College Algebra (3)  
MA 155 Statistical Reasoning (3)

## OR

MA 223 Probability and Statistics (3)  
PS 103 US Political Systems (3)  
PY 220 Psych Develop Across the Lifespan (3)  
PY 555 Health Psychology (3)  
SC 105 Fundamentals of Oral Communication (3)  
SC 301 Foundations of Health Communication (3)  
SO 102 Society, Culture and Social Behavior (3)  
UI 352 Medical Ethics (3)  
UI 386 Environmental Health (3)  
UI 412 American Healthcare Systems (3)

## Choose One Option:

### BIOLOGY OPTION – Choose 15 hours:

BI 283 Genetics (4)  
BI 413 Molecular Genetics (3)  
BI 441 Virology (3)  
BI 442 Immunology (3)  
BI 447/EV 447 Fund of Disaster/Emerg Mgmt/  
Planning (3)  
BI 448/EV 448 Disaster/Emerg Planning/Response (3)  
BI 449/EV 449 Vulnerability/Risk Reduction/Crit Inc  
Mgmt (3)  
BI 453/ EV 453 Occupational Health (3)  
BI 456/EV 456 Fund Risk Comm in Emerg Mgmt (3)  
BI 458 Analytical Bioinformatics (3)  
BI 460/EV 460 Introduction to Toxicology (3)  
BI 543 & 544 Pathogenic Microbiology & lab (3)

### HEALTH POLICY & MANAGEMENT OPTION –

#### Choose 15 hours:

EC 585 Healthcare Economics (3)  
HA 300 Management of Healthcare (3)  
HA 510 Healthcare Operations (3)  
HA 582 Healthcare Budgeting and Reimbursement (3)  
PS 230 American Public Policy (3)  
PS 415 Governmental Budgeting Process (3)  
PS 418 Public Policy Analysis (3)  
PS 491 Topics in Political Science (3)  
SC 320 Group Comm and Decision-Making (3)  
SC 510 Leadership and Team Building (3)  
SC 560 Organizational Communication (3)  
UI 425 Persuasion: Understanding/Practice/Analysis (3)

### INFORMATION OPTION – Choose 15 hours:

BI 458 Analytical Bioinformatics (3)  
HA 540 Healthcare Informatics (3)

HA 545 Healthcare Database Systems (3)  
IS 130 Application Development I (3)  
IS 275 Computer Info Systems II (3)  
IS 330 Application Development II (3)  
IS 375 Database & Info Systems (3)  
IU 314 GeoInfo Science Today (3)  
MG 575 Information Technology Management (3)  
MI 375 Management Information Systems (3)

### NUTRITION OPTION – Choose 15 hours:

FN 235 Nutrition for Health (3)  
FN 255 Nutrition I (3)  
FN 355 Lifespan Nutrition (3)  
FN 520 Nutrition and Aging (3)  
FN 540 Community Nutrition (3)  
HL 332 Lifestyle Disease Risk Reduction (3)  
HL 526 Health Behavior Change (3)

### SOCIAL/BEHAVIORAL OPTION – Choose 15 hours:

HA 300 Management of Healthcare (3)  
HL 116 Special Topics Health/Human Perf/Rec (3)  
HL 510 Health Concerns of Aging (3)  
PY 325 Psychological Development of the Family (3)  
PY 329 Psychology of Death & Dying (3)  
PY 440 Abnormal Psychology (3)  
PY 466 Introduction to Physiological Psychology (3)  
PY 525 Maturity and Aging (3)  
SC 215 Intercultural Communication (3)  
SC 355 Interviewing: Principles and Practice (3)

## RECREATION & PARK ADMINISTRATION

### 60 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 15 hours from one track:

##### OUTDOOR ADVENTURE TRACK

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 250 Foundations of Outdoor Recreation (3)

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- RC 310 Outdoor Leadership (3)
- RC 311 Parks/Outdoor Resource Mgmt (3)
- RC 450 Outdoor Adventure Therapy (3)
- UI 459 Nature Literacy (3)

## OR

- UI 429 Environmental Ethics (3)

## RECREATION & PARK ADMINISTRATION TRACK

- RC 210 Camp Leadership (3)
- RC 230 Recreational Sports (3)
- RC 270 Commercial Recreation (3)
- RC 311 Parks/Outdoor Resource Mgmt (3)
- RC 340 Mentoring Principles (3)
- RC 345 Youth Development Through Leisure (3)
- RC 386 Aquatic Facility Management (3)
- RC 480 Community Development (3)
- UI 354 Lifestyle Enhancement (3)

## OR

- UI 427 Service & Community (3)

## SOCIAL WORK

### 60 Hour Major - No Minor Required

*(See Admission to Social Work Program criteria under Admissions, page 16. 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 Understand Cultural/Social 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:

- HS 301 Found Child Maltreatmnt/Advocacy (3)
- 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

### 45 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 250 Governance of Sport Organizations (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:

- PL 204 Ethical Theory (3)
- SC 105 Fundamentals of Oral Communication (3)

## TECHNOLOGY MANAGEMENT

### 85-87 Hour Major - No Minor Required

#### Required Courses:

- IM 300 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)+

## OR

- CM 330 Const Plan & Scheduling (3)\* ^

- MA 133 Plane Trigonometry (3)

- MA 134 College Algebra (3)

- MA 139 Applied Calculus (3)

- MN 220 Engineering Econ Analysis (3)

- MN 260 Tech Computer Programming Appl (3) ^ +

## OR

- CM 260 Comp Methods of Constr Mgrs (3)\*

## OR

- CS 155 Computer Science I (4)

- 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 Understand Cultural/Social Diversity (3)  
 UI 410 Manufac Research/Global Society (3)  
*\*Construction Management & Design option majors must take CH 181, CM 260, CM 330 and PH 120*  
*^Facilities Management & Sustainability option majors must take CH 181, CM 330, MN 260, and PH 120*  
*+Industrial Management and Sustainable Energy Systems Management option majors must take CH 181, IM 506, MN 260, and PH 120*  
*#Sustainable Energy Systems Management option majors must take CH 181, IM 506, MN 260, and PH 120*  
*@Telecommunication & Computer Networking option majors must take IM 506, MN 260, PH 120, and PH 121*

**Choose One Option:**

**CONSTRUCTION MANAGEMENT & DESIGN (42 Hours)**

CM 126 Computer Aided Arch Drafting (3)  
 CM 143 Constr Methods & Matls I (3)  
 CM 226 Resid Arch Drafting & Design (3)  
 CM 243 Construction Methods & Matls II (3)  
 CM 310 Building 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 343 Construction Surveying & Testing (3)  
 CM 410 Construction Project Administration (3)  
 CM 443 Constr Equipment Mgmt (3)  
 IM 317 Internship (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 Building Codes & Compliance (3)  
 CM 320 Construction Cost Estimating (3)  
 CM 325 Bldg Mechanical & Electrical Syst (3)  
 ET 470 Energy Management (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 Automation & Technology (3)  
 IM 317 Internship (3)

**INDUSTRIAL & SAFETY MANAGEMENT (42 Hours)**

ET 160 Basic Electricity & Electronics (3)  
 ET 304 Intro Prog Logic Circuits (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)  
 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 Management (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 Automation & Technology (3)  
 IM 555 Sustainable & Green Mfg (3)  
 UI 360 Recycling & Waste Management (3)

**Choose one course:**

UI 387 Env Law & Public Policy (3)  
 UI 386 Environmental Health (3)  
 EV 453 Occupational Health (3)

**TELECOMMUNICATIONS AND 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 255 Microcomputer Maint & Troubleshooting (3)  
 TN 275 Intro to Networks (3)  
 TN 375 Routing/Switching Essentials (3)  
 TN 395 Server Maint & Troubleshooting (3)  
 TN 425 Wireless Comm & Mobile Data Netwk (3)  
 TN 435 Network Security (3)  
 TN 475 Scaling Networks (3)  
 TN 563 Connecting Networks (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 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.

## UNMANNED AIRCRAFT SYSTEMS

### 92 Hour Major - No Minor Required

#### Required Courses:

- CH 180 Chemistry in Our World (3)
- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- ET 160 Basic Circuits (3)
- ET 164 AC Circuit Analysis (3)
- ET 245 Digital Systems (3)
- ET 260 Electronics (3)
- ET 366 Microcontrollers (3)
- ET 380 Vision & Sensor Systems (3)
- ET 381 Fundamentals of Aviation in UAS (3)
- ET 382 UAS Fundamentals (3)
- ET 383 UAS Design (3)
- ET 384 UAS Law, Policy, & Safety (3)
- ET 385 UAS Mission Planning & Applications (3)
- IM 300 Technical Communication (3)
- IU 314 GeoInfo Science Today (3)
- MA 137 Pre-calculus (5)
- MA 140 Analytical Geometry & Calculus I (5)
- MN 120 Introduction to Mechanical Design (3)
- MN 219 Statics & Strengths of Materials (3)
- MN 220 Engineering Economic Systems (3)
- MN 324 Mechanical Design Process (3)
- PH 120 Introductory Physics I (5)
- TN 255 Microcomputer Maint/Troubleshooting (3)
- UI 450 Capstone Experience (3)

#### Technical Electives – choose 9 hours:

- AG 440 Precision Agriculture (3)
- AG 444 Spatial Analysis (3)
- CJ 430 Policing in an Information Age (3)
- CS 480 Data Communications (3)
- GO 340 Remote Sensing (3)
- GO 445 Geographic Information Systems (3)
- GO 520 GIS Application (3)
- IS 320 Human Computer Interaction (3)
- MN 356 Robotic Fundamentals (3)
- TN 425 Wireless Communications/Mobile Networks (3)

## BACHELOR OF SCIENCE IN ATHLETIC TRAINING DEGREE

For students planning to see careers as a certified athletic trainer. See Admission to Athletic Training criteria under Admissions, page 12.

## ATHLETIC TRAINING

### 66 Hour Major - No Minor Required

(See Admission to Athletic Training criteria under Admissions, page 12.)

#### 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 263 Sports Injury Management (3)
- HL 265 Therapeutic Modalities (3)
- HL 280 Basic Skills in Athletic Training (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 (4)
- HL 345 Resistance Training Principles/Practices (3)
- HL 382 Medical Aspects of Sport (3)
- HL 444 Rehab of Sports Injuries (3)
- HL 511 Applied Anatomy (3)
- TX 251 Intro to Athletic Injuries (3)
- TX 281 Practicum in Athletic Training I (1)
- TX 282 Practicum in Athletic Training II (1)
- TX 383 Practicum in Athletic Training III (1)
- TX 384 Practicum in Athletic Training IV (1)
- TX 472 Admin of Athletic Training (3)
- TX 480 Seminar in Athletic Training (2)
- TX 481 Practicum in Athletic Training (1)

#### 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

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

For students planning careers in business. See Admission to Business Administration Programs criteria under Admissions, page 13. The areas from which majors must be chosen are:

- Accounting
- Business Administration
- Economics
- Options: Business Economics
- Financial Economics

Finance  
Healthcare Administration  
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.

### **30 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 Quantitative Analysis (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)  
BA 452 Professionalism (1)  
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 (2)  
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**

### **30 Hour Major - No Minor Required**

#### **Required Courses:\***

AC 321 Financial Acct & Reporting I (3)  
AC 330 Accounting Analytics (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 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 550 Fraud Examination & Accounting (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.

**NOTE:** Microsoft Excel certification is a graduation requirement for undergraduate Accounting majors.

## **BUSINESS ADMINISTRATION**

### **24 Hour Major - No Minor Required**

#### **Required Courses:**

AC/BA/BL/EC/ER/FI/HA/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).*

#### **Choose 3 hours from the following:**

AC 330 Accounting Analytics (3)  
EC 351 Applied Economic Models (3)  
EC 490 Business Forecasting (3)  
ER 561 Bus Planning for New Ventures (3)  
MG 546 Acquiring & Compensating Talent (3)  
MK 345 Intro to Business Research (3)  
QM 358 Production/Operations Management (3)

*\*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.*

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*\*No more than 9 hours may double count between this major and a second Business major.*

## ECONOMICS

### 28 Hour Major - No Minor Required

#### Choose One 28 Hour Option:

##### BUSINESS ECONOMICS

EC 410 Macroeconomic Theory (3)

EC 420 Microeconomic Theory (3)

EC 490 Business Forecasting (3)

##### OR

EC 351 Applied Econ Models (3)

EC 498 Economics Seminar (1)

EC 561 Managerial Economics (3)

#### Choose 15 Hours From:

EC xxx EC course, (235-500 level)

UI 349 Comparative Economic Systems (3)

UI 366 Law and Economics (3)

UI 371 Government & Business (3)

##### FINANCIAL ECONOMICS

EC 335 Monetary Economics (3)

EC 410 Macroeconomic Theory (3)

EC 420 Microeconomic Theory (3)

EC 490 Business Forecasting (3)

##### OR

EC 351 Applied Econ Models (3)

EC 498 Economics Seminar (1)

FI 364 Modern Financial Institutions (3)

#### Choose 12 Hours From:

EC xxx EC course (235-500 level)

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

### 27 Hour Major - No Minor Required

#### Required Courses:

EC 490 Business Forecasting (3)

##### OR

EC 351 Applied Econ Models (3)

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)

EC 335 Money & Banking (3)

EC 410 Macroeconomic Theory (3)

## HEALTHCARE ADMINISTRATION

### 24 Hour Major

#### Required Courses:

EC 585 Healthcare Economics (3)

HA 473 Internship in Healthcare (3)

HA 510 Healthcare Operations (3)

##### OR

HA 520 Intro to Healthcare Quality (3)

HA 580 Mgmt of Health Systems (3)

HA 581 Health Admin Policy (3)

HA 582 Healthcare Budget/Reimburse (3)

##### OR

HA 540 Healthcare Informatics (3)

HA 585 Marketing Healthcare (3)

MG 356 Found of Hum Resource Mgmt (3)

#### Additional Requirements:

HL 120 Health Perspectives (3)

UI 352 Medical Ethics (3)

UI 412 American Health Care System (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)

##### Choose 3 hours from the following:

AC 330 Accounting Analytics (3)

EC 351 Applied Economic Models (3)

EC 490 Business Forecasting (3)

ER 561 Bus Planning for New Ventures (3)

MG 546 Acquiring & Compensating Talent (3)

MK 345 Intro to Business Research (3)

QM 358 Production/Operations Management (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**

##### **27 Hour Major - No Minor Required**

*(Cannot double count elective choices in more than one option.)*

##### **Required Management Core Courses:**

ER 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 15 Hour Option:**

#### **ENTREPRENEURSHIP**

##### **Required Courses:**

ER 531 Innovation (3)  
ER 551 Manag & Grow New Ventures (3)  
ER 561 Bus Planning for New Ventures (3)  
ER 581 Entrepreneur Pract: Venture Creation (3)

##### **Select 3 hours from the following:**

ER 521 Topics in Entrepreneurship (3)  
ER 581 Entrepreneur Pract: Venture Creation (3)\*  
FI 363 Entrepreneurial Finance (3)

*\*For an additional 3 hours credit*

#### **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 6 Hours From the Following:**

EC 380 Labor Economics (3)  
ER 531 Innovation (3)  
MG 354 Bus Negotiation: Conc/Practice (3)  
MG 456 Topics in Human Resource Mgmt (3)

MG 550 Improv Team Performance (3)  
MG 562 Orgnz Theory & Design (3)  
MK 341 Public Relations (3)

#### **MANAGEMENT**

##### **Required Courses:**

MG 354 Bus Negotiation: Conc/Practice (3)  
MG 550 Improv Team Performance (3)  
MG 562 Org Theory & Design (3)

##### **Choose 3 hours from the following:**

ER 531 Innovation (3)  
ER 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 Marketing (3)  
MK 547 Sales Management (3)

##### **Choose 3 hours from the following:**

MK 345 Intro to Business Research (3)  
QM 358 Production/Operations 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 Integ Marketing Comm (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\*, ER 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 Brand Marketing (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 Marketing (3)

**SALES MANAGEMENT**

- MK 342 Professional Selling (3)
- MK 547 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 children from birth through 12th grade, six programs are offered:

- Early Childhood Education (birth-grade 3) with add-on certification in elementary education (grades 1-6)
- Elementary Education (grades 1-6) with the option of adding on middle school certification (grades 5-9)
- Exceptional Child Education (grades K-12) with add-on certification in elementary education (grades 1-6)
- Middle School Education (grades 5-9)
- Secondary Education (grades 9-12)
- K-12 Education (Physical Education, Art, Music, FACS)

All majors in education must meet requirements determined by the Missouri Department of Elementary and Secondary Education. 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.

All teacher education candidates must complete an FBI background check prior to the first field experience in teacher education. A valid FBI background check is required for all subsequent field experiences.

**EARLY CHILDHOOD EDUCATION WITH  
ADD-ON ELEMENTARY EDUCATION  
CERTIFICATION**

Students in Early Childhood (birth through third grade) will also add on certification in elementary education (grades one through six) with this program.

**Professional Education Requirements: 97 Hours**

*(A minimum grade of "C" is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- BS 118 Intro Process Science Elem Teachers (1)
- CE 330 Classroom Management and Environ Org (3)
- CE 340 Family/School Collaboration (3)
- CE 364 Mthd of Math/Sci/Soc Stu in EC & EE (3)
- CE 365 Observation/Assmnt/Data Analysis (3)
- CE 366 Curr/Theory/Progr Mgmt in Early Chld (3)
- CE 370 Lang Aquisition of Young Child (3)
- CE 530 Found of Early Child Spec Educ (3)
- CE 480 Early Childhood Student Teaching (12)
- CF 124 Child Health, Safety & Nutrition (3)
- CF 233 Creat Thought/Express in Children (3)
- CF 285 Learn Theory/App: Infants & Toddlers (3)
- CF 512 Family/Consumer Resources (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America's Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Intermd & Middle School Literacy Instr (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 410 Differentiated Instruction (3)
- EL 430 Adv Field Experience (3)
- EN 140 Rhetoric & Critical Thinking (3)
- EX 390 Psych & Educ of the Except Child (3)
- LI 243 Children's Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 228 Geometry/Measurements for Educators (4)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)
- UI 506 Educ Law & Society (3)

**Additional Requirements: 24 Hours**

*(Some courses may fulfill University Studies requirements)*

- BS 218 Biological Science: A Process Apprch (3)
- EC 101 Economic Problems & Policies (3)
- EN 100 English Composition 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 Cult/Phys Landscapes (3)
- US 105 American History I (3)

**ELEMENTARY EDUCATION**

Students in the Elementary Education program are certified to teach in grades one through six. This program also offers the option to add on certification in one middle school (grades five through nine) area: Language Arts, Math, Science, Social Sciences. (See section below for requirements.)

**Professional Education Requirements: 85 Hours**

*(A minimum grade of "C" is required in each*

*professional education course with the exception of ED280 which requires a minimum grade of B.)*

- BS 118 Intro Process Science Elem Teachers (1)
- CF 233 Creat Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America's Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 310 Pedagogy: Elem/Instruct Models/Strat (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Intermd & Middle School Literacy Instr (3)
- EL 340 Classroom Management (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Integ Math/Science/Soc Sci/Health Instruct (3)
- EL 410 Differentiated Instruction (3)
- EL 420 Assess/Data Analysis (3)
- EL 430 Advanced Field Experience (3)
- EL 480 Elem Educ Student Teaching (12)
- EN 140 Rhetoric & Critical Thinking (3)
- EX 390 Psych & Educ of the Except Child (3)
- LI 243 Children's Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 228 Geometry/Measurements for Educators (4)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)
- UI 506 Education Law & Society (3)

**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 100 English Composition 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)
- US 105 American History I (3)

**Approved electives – 9 hours:**

**Choose from the following areas, with advice of advisor - Autism, Family Engagement, English, Fine Arts, Foreign Language, Inclusion, Math, Middle School certification, Science, Social Studies, TESOL**

**ELEMENTARY EDUCATION WITH ADD-ON MIDDLE SCHOOL EDUCATION CERTIFICATION**

Students in the Elementary Education program may add on certification in one middle school (grades five through nine) area: Language Arts, Math, Science, Social

Sciences.

**Professional Education Requirements: 88 Hours**  
*(A minimum grade of "C" is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- BS 118 Intro Process Science Elem Teacher (1)
- CF 233 Creat Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America's Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 310 Pedagogy: Elem Instr Models/Strategies (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Intermd & Middle School Literacy Instr (3)
- EL 340 Classroom Management (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Integ Math/Science/Soc Sci/Health Instruct (3)
- EL 410 Differentiated Instruction (3)
- EL 420 Assess/Data Analysis (3)
- EL 430 Advanced Field Experience (3)
- EL 480 Elem Educ Student Teaching (12)
- EN 140 Rhetoric and Critical Thinking (3)
- EX 390 Psych & Educ of the Except Child (3)
- LI 243 Children's Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 228 Geometry/Measurements for Educators (4)
- PY/CF 120 The Child: Devel/Conception to Adolsc (3)
- SE 360 Pedagogy 2: Interdis Method/Middle Schl (3)
- UI 506 Education Law & Society (3)

**Additional Requirements for Middle School Certification: 18-21 Hours**

*(A GPA of 3.0 in content coursework is required for graduation and certification.)*

**Choose one content area:**

**Language Arts: 18 hours**

- EN 201 Writing About Literature (3)
- EN 378 Grammars of English (3)
- LI 385 Teach Lit/Nonfict in Sec Schl (3)
- LI 270 American Literature I (3)

**OR**

- LI 271 American Literature II (3)
- LI 542 Literature for the Young Adult (3)
- SE 319 Tech Teaching Lang Arts (3)

**Mathematics: 19 hours**

- MA 137 Precalculus (5)
- MA 138 Discrete Mathematics I (3)
- MA 140 Analytic Geometry and Calculus I (5)
- MA 223 Elementary Probability and Statistics (3)
- SE 311 Tech Teaching Math (3)

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## Science: 21 hours

- BI/CH/EP 405 Engineering in Science Education (1)
- BS 105 Environmental Biology (3)
- CH 181 Basic Principles of Chemistry (5)
- PH 106 Physical Concepts (3)
- PH 109 Exploring the Universe (3)
- SE 320 Tech Teaching Science (3)
- UI 318 Earth Science: A Process Approach (3)

## Social Studies: 15 hours

- EH 101 Early European Civilization (3)
- OS 200 Survey of Social Science (3)
- SE 318 Tech Teaching Social Studies (3)
- US 107 American History II (3)
- WH 305 World Civilizations (3)

## Additional Requirements: 24 Hours

*(These courses may also meet University Studies requirements)*

- BS 218 Biological Science: A Process Approach (3)
- EC 101 Econ Problems & Policies (3)
- EN 100 English Composition I (3)
- PH 218 Phys Sci: Process Approach (3)
- PS 103 US Political Systems (3)
- SC 105 Fund of Oral Communication (3)
- UI 308 Cultural/Phys Landscapes/World (3)
- US 105 American History I (3)

## EXCEPTIONAL CHILD EDUCATION WITH ADD-ON ELEMENTARY CERTIFICATION

Students in Exceptional Childhood (K-12) will also add on certification in elementary education (first through sixth grade) with this program.

### Professional Education Requirements: 97 Hours

*(A minimum grade of C is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- BS 118 Process Science Elementary Teachers (1)
- CF 233 Great Thought/Express in Children (3)
- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar in Education Issues (1)
- EL 274 Diversity in America's Schools (3)
- EL 300 Asst/Instr Tech in Univ Desgn for Lrng Env (3)
- EL 314 Literacy Field Experience (3)
- EL 316 Emergent/Early Literacy Instruction (3)
- EL 317 Intermd & Middle School Literacy Instr (3)
- EL 350 Content Field Experience (3)
- EL 354 Meeting Needs of Struggling Readers (3)
- EL 355 Content Area Literacy (3)
- EL 360 Integ Math/Science/Soc Sci/Health Instruct (3)
- EL 420 Assess/Data Analysis (3)
- EN 140 Rhetoric & Critical Thinking (3)

- EX 302 Lang Devel/Child w/ Exceptionalities (3)
- EX 304 Classroom & Behavior Management (3)
- EX 305 Content Area Teach: Lrn/Trns Sec Stu with Except (3)
- EX 309 Adv Fld Exp in Educ of Chldrn with Except (3)
- EX 311 Intro to Children with Exceptionalities (3)
- EX 312 Diag & Remed of Math Difficulties (3)
- EX 317 Assmt & Tech of Teach Child with Except (3)
- EX 373 Teaching Mild/Moderate Cross-Categorical (3)
- EX 480 Exceptional Child Educ Student Teaching (12)
- EX 507 Families & the Child with Exceptionalities (3)
- LI 243 Children's Literature (3)
- MA 128 Numbers & Operations for Educators (4)
- MA 228 Geometry/Measurements for Educators (4)
- PY/CF 120 The Child (3)

## OR

- PY 222 Development of the Adolescent (3)
- UI 506 Education Law & Society (3)

### Additional requirements: 24 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 100 English Composition 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 (3)
- US 105 American History I (3)

## MIDDLE SCHOOL EDUCATION

Students in Middle School Education (grades five through nine) choose one area of concentration.

### Required Professional Education Courses: 49 Hours

*(A minimum grade of "C" is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar/Educ Issues for Student Teachers (1)
- EX 390 Psych & Educ of Except Child (3)
- PY 222 Development of the Adolescent (3)
- SE 307 Content Lit Mthds for Middle/High Schl (3)
- SE 311 Techniques of Teaching Mathematics (3)

## OR

- SE 318 Tech of Teaching Sec Social Studies (3)

## OR

- SE 319 Techniques of Teaching English (3)

## OR

- SE 320 Techniques of Teaching Science (3)
- SE 350 Pedagogy 1: Prin of Effect Teach (3)
- SE 355 Field Experience II (3)

- SE 360 Pedagogy 2: Interdis Method/Middle Schl (3)  
 SE 380 Advanced Field Experience (3)  
 SE 385 Pedagogy 3: Adv Mthds of Middle/Sec Teaching (3)  
 SE 390 Instr Intervent/Mdl & Sec Stu/Spec Lit Needs (3)  
 SE 465 Student Teaching (12)  
 UI 506 School Law (3)

**Required Content Courses: 24-27 Hours**

*(A GPA of 3.0 in content coursework is required for graduation and certification.)*

**Choose one content area:**

**Language Arts:**

- EN 140 Rhetoric/Critical Thinking (3)  
 EN 201 Writing About Literature (3)  
 EN 378 Grammars of English (3)  
 LI 243 Children's Literature (3)  
 LI 256 Variety of Literature (3)  
 LI 270 American Literature I (3)

**OR**

- LI 271 American Literature II (3)  
 LI 385 Teach Lit/Nonfict in Sec Schl (3)  
 LI 542 Literature for the Young Adult (3)  
 SC 105 Fundamentals of Oral Communication (3)

**Mathematics**

- MA 128 Numbers & Operations for Educators (4)  
 MA 137 Precalculus (5)  
 MA 138 Discrete Mathematics I (3)  
 MA 140 Analytic Geometry and Calculus I (5)  
 MA 223 Elementary Probability and Statistics (3)  
 MA 228 Geometry/Measurements for Educators (4)

**Additional Requirements:**

- UI 438 Nature/Growth of Mathematical Thought (3)

**Science**

- BI/CH/EP 405 Engineering in Science Education (1)  
 BS 105 Environmental Biology (3)  
 BS 118 Intro Process Science Elem Teacher (1)  
 BS 218 Biological Science: A Process Approach (3)  
 CH 181 Basic Principles of Chemistry (5)  
 PH 106 Physical Concepts (3)  
 PH 109 Exploring the Universe (3)  
 PH 218 Physical Science: A Process Approach (3)  
 UI 318 Earth Science: A Process Approach (3)

**Social Studies**

- EC 101 Economic Problems and Policies (3)  
 EH 101 Early European Civilization (3)  
 OS 200 Survey of Social Science (3)  
 PS 103 US Political Systems (3)  
 UI 308 Cultural/Physical Landscapes of the World (3)  
 US 105 American History I (3)  
 US 107 American History II (3)  
 WH 305 World Civilizations (3)

**SECONDARY EDUCATION  
 GRADES 9-12 EDUCATION**

**Students in Secondary Education (grades 9 through 12) choose a major from one of the following areas of study:**

- |                        |                                    |
|------------------------|------------------------------------|
| Agricultural Education | Social Studies Education           |
| Biology Education      | Technology & Engineering Education |
| Chemistry Education    | Unified Science: Biology           |
| English Education      | Unified Science: Physics           |
| Mathematics Education  |                                    |
| Physics Education      |                                    |

**Professional Education Requirements: 47 Hours**

**Unless otherwise noted, all Secondary Education majors take the following professional education courses.**

*(A minimum grade of 'C' is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- ED 280 Intro to Educ as a Profession (3)  
 EF 400 Seminar/Educ Issues for Student Teachers (1)  
 EX 390 Psych & Educ of Except Child (3)  
 PY 222 Development of the Adolescent (3)  
 SE 307 Content Lit Mthds for Middle/High Schl (3)\*  
 SE 3xx Methods of Teaching Subject Area (3)  
 SE 350 Pedagogy 1: Prin of Effect Teach (3)  
 SE 355 Field Experience II (3)  
 SE 365 Pedagogy 2: Sec Schl-Interdis Mthds/Tech (4)  
 SE 380 Advanced Field Experience (3)  
 SE 385 Pedagogy 3: Adv Mthds of Middle/Sec Teaching (3)  
 SE 390 Instr Intervent/Mdl & Sec Stu/Spec Lit Needs (3)  
 SE 465 Student Teaching (12)

*\*English Education majors will take LI385 instead of SE307*

**AGRICULTURAL EDUCATION**

**54 Hour Major - No Minor Required**

*(A grade of 'C' or better is required in all courses within the major.)*

**Required Courses:**

- 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 125 Plant Science Lab (1)  
 AO 215 Soils (3)

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- AY 101 Animal Science (3)  
AY 105 Animal Science Experience (2)  
CH 181 Basic Prin of Chem (5)

## OR

- CH 185 General Chemistry (5)  
HO 110 Intro to Horticulture (3)  
UI 344 Plants & Humanity (3)  
UI 436 Agricultural Ethics (3)

## Additional Requirements:

- AD 101 Intro to Microcomputer Appl (3)  
MA 134 College Algebra (3)

## BIOLOGY EDUCATION

### 44-66 Hour Major - No Minor Required

#### Required Courses:

- BI 163 Evolution & Ecology (4)  
BI 173 Cell/Organismal Biology (4)  
BI 283 Genetics (4)  
BI 310 General Microbiology (4)  
BI 332 General Ecology (3)  
BI 389 Career Develop in Biology (1)  
UI 318 Earth Science: Proc Approach (3)  
UI 422 Scientific Reasoning (3)

#### Additional Requirements:

- BI 405 Engr in Science Educ (1)  
MA 134 College Algebra (3)

#### Choose One Option:

#### BIOLOGY EDUCATION OPTION:

- BS 105 Environmental Biology (3)  
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)  
Approved Biology elective, 300 level and above (3)

#### UNIFIED SCIENCE OPTION:

- BO 310 Plant Biology (4)  
BS 113 Anatomy & Physiology I (4)  
BS 114 Anatomy & Physiology II (4)  
CH 185 General Chemistry (5)  
CH 186 Found of Inorganic Chem (3)  
GO 110 Physical Geology (3)  
MA 133 Plane Trigonometry (3)  
PH 120 Intro Physics I (5)  
PH 121 Intro Physics II (5)

## CHEMISTRY EDUCATION

### 53 Hour Major - No Minor Required (A grade of 'C' or better is required in all courses within the major.)

#### Required Courses:

- CH 186 Found of Inorganic Chem (3)  
CH 187 Inorg Chem & Qual Analysis (2)  
CH 271 Found of Analy Chem (5)  
CH 306 Found of Phys Chem (3)  
CH 341 Found of Organic Chem (4)  
CH 342 Organic Chemistry Lab I (1)  
PH 120 Introductory Physics I (5)  
UI 331 Found of Biochemistry (3)  
UI 422 Scientific Reasoning (3)

#### Choose 3 Hours From:

- BS 108 Biology for Living (3)  
BS 218 Bio Science: A Process Approach (3)

#### 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)

#### Additional Requirements:

- CH 185 General Chemistry (5)  
CH 405 Engr in Science Education (1)  
MA 134 College Algebra (3)  
MA 139 Applied Calculus (3)  
UI 443 Professional Exp in Chemistry (3)

## ENGLISH EDUCATION

### 39 Hour Major - No Minor Required

(A grade of 'C' or better is required in all courses within the major.)

#### Required Courses:

- EN 140 Rhet & Critical Thinking (3)  
EN 201 Writing About Literature (3)  
EN 378 Grammars of English (3)  
EN 379 Composition in the Secondary School (3)  
LI 211 World Literature I (3)

## OR

- LI 212 World Literature II (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 385 Teach Lit/NonFict in Sec Schl (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 3 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 Requirements:**

LI 256 Variety of Literature (3)

**MATHEMATICS EDUCATION**

**43 Hour Major - No Minor Required**

**Required Courses:**

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 244 Analytic Geometry & Calculus III (4)

MA 250 Foundations of Mathematics (3)

MA 334 Mathematical Programming (3)

MA 340 Concepts of Geometry (3)

MA 345 Linear Algebra (3)

MA 443 Elementary Number Theory (3)

MA 445 Modern Algebra (3)

MA 449 Mathematical Problem Solving (3)

**Additional Requirements:**

MA 003 Math Major Field Achvmt Test (0)

MA 138 Discrete Mathematics I (3)

UI 438 Nature & Growth of Mathematical Thought (3)

**PHYSICS EDUCATION**

**57-63 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)

PH 230/030 General Physics I (5)

PH 231/031 General Physics II (5)

PH 360 Modern Physics (3)

UI 330 Experimental Methods I (3)

UI 422 Scientific Reasoning (3)

**Choose 3 Hours From:**

BI 332 General Ecology (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)

**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)

**Choose 3 hours at the 300-599 level:**

EP xxx

PH xxx

**Additional Requirements:**

EP 405 Engr in Science Educ (1)

MA 140 Analy Geom & Calc I (5)

MA 145 Analy Geom & Calc II (4)

MA 244 Analy Geom & Calc III (4)

**Choose 6 Hours From:**

CS 177 Progr for Scientists/Engrs (3)

EP xxx

PH xxx

**UNIFIED SCIENCE OPTION:**

BS 218 Bio Science: A Process Approach (3)

CH 185 General Chemistry (5)

CH 186 Found of Inorganic Chem (3)

GO 110 Physical Geology (3)

UI 318 Earth Sci: Process Approach (3)

**Choose 3 hours:**

EP xxx

PH xxx

**Additional Requirements:**

EP 405 Engr in Science Educ (1)

MA 140 Analy Geom & Calc I (5)

MA 145 Analy Geom & Calc II (4)

MA 244 Analy Geom & Calc III (4)

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## SOCIAL STUDIES EDUCATION

### 51 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)
- PS 103 U.S. Political Systems (3)
- PY 102 Introduction to Psychology (3)
- US 105 American History I (3)
- US 107 American History II (3)
- WH 305 World Civilizations (3)

#### Choose 6 hours:

- Any US history courses (300-599) (3)
- UI 313 The African American Experience (3)
- UI 446 The Civil Rights Movement (3)
- UI 457 African American Slavery (3)
- UI 508 Afr Am during the Era of Segreg/Jim Crow (3)

#### Choose 3 hours:

- PS 230 American Public Policy (3)
- PS 310 Govt & Politics of the American States (3)
- PS 335 American Foreign Policy (3)
- PS 360 Political Parties & Voting Behaviors (3)
- PS 365 Legislative Process (3)
- UI 357 Early American Political Thought (3)

#### Additional Requirements:

- SS 200 Intro to Tchng Social Studies/Sec Schl (3)
- GH 315 Historiography (3)

#### Choose 3 hours:

- Any EH course (300-599) (3)

#### Choose 3 hours:

- Any WH course (3)

## TECHNOLOGY AND ENGINEERING EDUCATION

### 44 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 143 Construction Methods & Matls I (3)
- ET 160 Basic Electricity & Electronics (3)
- ET 304 Intro Prog Logic Circuits (3)
- GM 180 Intro to Tech Graphics (3)
- IE 401 Technology Education Mgt (3)

- IE 593 Princ/Pract of Technical Subjects (3)
- IE 596 Found of Career & Tech Educ (3)
- MN 120 Fund of Engr Design Processes (3)
- MN 221 Solid Modeling & Rapid Prototyping (3)

#### Choose 6 Hours From:

- CM 226 Resid Arch Drft & Design (3)
- CM 243 Constr Methods & Materials II (3)
- CM 320 Construction Cost Estimating (3)
- ET 365 Industrial Electrical Power (3)
- ET 426 Sustainable Energy Tech (3)
- GM 200 Vector Bitmapped Graph/Industry (3)
- IE 590 Assess in Career & Tech Educ (3)
- IE 592 Select/Organization of Subject Matter (3)
- IE 597 Coordination of Cooperative Educ (3)
- MN 170 Engr Matls & Testing (3)
- MN 203 Indust Matls & Processes I (3)
- MN 324 Mechanical Design Processes (3)

#### Additional Requirements:

- CH 181 Basic Prin of Chem (5)
- MA 134 College Algebra (3)

## K-12 EDUCATION

Students in K-12 Education choose a major from the following areas of study:

- |                     |                    |
|---------------------|--------------------|
| Art Education       | German Education   |
| Family & Consumer   | Music Education    |
| Sciences (Birth-12) | Physical Education |
| French Education    | Spanish Education  |

Certification programs are also available in Speech and Language Specialist (K-12), and Teaching English as a Second Language (K-12; graduate program).

#### Unless otherwise noted, all K-12 Education majors take the following professional education courses.

*(A minimum grade of "C" is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- ED 280 Intro to Educ as a Profession (3)
- EF 400 Seminar/Educ Issues for Student Teachers (1)
- EX 390 Psych & Educ of Except Child (3)
- PY 222 Development of the Adolescent (3)
- SE 307 Content Lit Mthds for Middle/High Schl (3)
- SE 3xx Methods of Teaching Subject Area (3)
- SE 350 Pedagogy 1: Prin of Effect Teach (3)
- SE 355 Field Experience II (3)
- SE 365 Pedagogy 2: Sec Schl-Interdis Mthds/Tech (4)
- SE 380 Advanced Field Experience (3)
- SE 385 Pedagogy 3: Adv Mthds of Middle/Sec Teaching (3)
- SE 390 Instr Intervent/Mdl & Sec Stu/Spec Lit Needs (3)\*
- SE 465 Student Teaching (12)

*\*Required on FACS Education, French Education, German Education and Spanish Education programs*

## ART EDUCATION

### 48 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all content courses; 3.0 average must be maintained in the AR/AH courses; and a 2.5 minimum GPA is required in The foundation review.)*

#### Required Courses:

AH 110 Art History Survey I (3)

AR 100 Drawing I (3)

AR 104 2D Design (3)

AR 202 Drawing II (3)

#### Choose one course:

AR 330 Fibers I (3)

AR 847 Fibers Workshop (3)

#### Choose one course:

AR 332 Sculpture I (3)

AW 841 Welded Sculpture Workshop (3)

#### Choose one course:

AR 342 Ceramics I (3)

AR 841 Raku Workshop (3)

#### Choose one course:

AR 325 Painting (3)

AW 851 Painting Workshop (3)

#### Choose 3 Hours From:

AR 302 Printmaking (3)

AR 303 Screenprinting (3)

AR 501 Intaglio Printmaking (3)

AR 502 Litho Printmaking (3)

Students are expected to participate in the Juried Student Exhibition Assessment when enrolled in studio art courses.

#### Additional requirements:

AH 210 Art History Survey II (3)

AR 001 Foundation Review (0)

AR 106 3D Design (3)

AR 201 Color Composition (3)

AR 270 Art for the Elementary Teacher (3)

AR 323 Art & New Technology (3)

#### OR

AW 845 Computer Art (3)

UI 337 Issues in Modern Architecture (3)

UI 461 Issues in Modern Art (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 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:

FR 311 Survey of French Literature II (3)

FR 375 French Cinema (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)

#### Additional Requirements:

FR 020 Language Prof Exam: Exit (0)

#### Choose 6 Hours FL/FR Electives (300-500 level)

## 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 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:

GN 310 Survey of German Literature I (3)

GN 311 Survey of German Literature II (3)

GN 375 History of German Film (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 3 Hours any German Language Course

#### Additional Requirements:

GN 020 Language Prof Exam: Exit (0)

#### Choose 6 Hours in German Language or Literature

## PHYSICAL EDUCATION

*(PK-12 CERTIFICATE)*

### 57 Hour Major - No Minor Required

*(A grade of 'C' or better is required in all courses within the major.)*

#### Required Courses:

AT 174 Rock Climbing & Rappelling (1)

- BS 113 Anatomy & Physiology I (4)
- FN 235 Nutrition for Health (3)
- HL 231 Fitness Conditioning (3)
- PE 201 Sport & Society (3)
- PE 216 Theory & Practice of Team Sports (2)
- PE 217 Theory/Practice of Individual/Dual Sports (3)
- 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 261 Conc Injury Mgmt in PE (3)
- PE 262 Introduction to Group Exercise (1)
- PE 263 Injury Mgmt in PE Lab (1)
- 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 148 Yoga (1)
- AT 153 Angling, Archery & Firearms (1)
- AT 164 Golf (1)
- AT 176 Tennis (1)

**Choose One Hour from the Following:**

- AT 130 Dance for Aerobic Fitness (1)
- DA 130 Ballroom Dance (1)
- DA 186 Beginning Jazz Dance (1)

**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 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:**

- SN 400 Special Topics: Spanish (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)

**Additional Requirements:**

- SN 020 Language Prof Exam: Exit (0)

**Choose 6 Hours FL/SN Electives (300-500 level)**

**BACHELOR OF SCIENCE IN  
FAMILY AND CONSUMER  
SCIENCES EDUCATION DEGREE**

For students planning to teach family and consumer sciences or financial literacy 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**

**36 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 Fam Process & Systems (3)
- CF 430 Parent Child Interaction (3)
- FA 207 Textiles (3)

**OR**

- FA 120 Clothing Construction (3)
- FE 200 Family Resource Management (3)
- FN 235 Nutrition for Health (3)
- FN 240 Intro to Food Science (3)
- UI 340 Housing Perspectives (3)
- UI 355 Consumer in the Market (3)

**Additional Requirements:**

- CF 402 Relationships of Commitment (3)
- UI 445 Social Perspectives of Sexuality (3)

**Professional Education Requirements: 49 Hours**

*(A minimum grade of "C" is required in each professional education course with the exception of ED280 which requires a minimum grade of B.)*

- ED 280 Intro to Teaching (3)
- EF 400 Seminar/Educ Issues for Student Teachers (1)
- EX 390 Psych & Educ of Except Child (3)
- PY 222 Development of the Adolescent (3)
- SE 307 Content Lit Mthds for Middle/High Schl (3)
- SE 312 Curric Develop/Techniques Tchng Voc Home Ec (4)
- SE 350 Pedagogy 1: Prin of Effect Teach (3)
- SE 355 Field Experience II (3)
- SE 365 Pedagogy 2: Sec Schl-Interdis Mthds/Tech (4)

- SE 380 Advanced Field Experience (3)  
SE 385 Pedagogy 3: Adv Mthds of Middle/Sec Teaching (3)  
SE 390 Instr Intervent/Mdl & Sec Stu/Spec Lit Needs (3)  
SE 465 Student Teaching (12)

## **BACHELOR OF MUSIC EDUCATION DEGREE**

For students planning to teach elementary or secondary school music.

### **MUSIC EDUCATION**

#### **63-66 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 001 Aural Skills Entry Level Proficiency (0)  
MM 002 Aural Skills Exit Level Proficiency (0)  
MM 101 Theories of Music in Culture (3)  
MM 102 Basic Harmony & Form (3)  
MM 105 Aural Skills I (1)  
MM 203 Adv Harmony, Form & Counterpoint (3)  
MM 204 Twentieth Century Techniques (3)  
MM 208 Aural Skills IV (1)  
MM 314 Instrumentation & Arranging (2)  
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 (2+2)  
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)

#### **OR**

- UI 402 Music in World Cultures (3)

#### **Choose One Option:**

#### **INSTRUMENTAL (22 Hours)**

- ME 250 Trumpet & Horn Techniques (1)  
ME 252 Flute & Double Reed Techniques (1)  
ME 253 Single Reed Techniques (1)

- ME 260 String Techniques (1)  
ME 261 Percussion Techniques (1)  
ME 372 Instru Tech: Elem & Secon (3)  
MU 344 Conducting/ Wind Lit (2)  
MU 3xx Instrumental Ensemble (3)  
**Additional Requirements:**  
MM 106 Aural Skills II (1)  
MM 207 Aural Skills III (1)  
ME 251 Trombone/Euphonium/Tuba Tech (1)  
ME 400 Marching Band Techniques (2)  
MU 220 Vocal Techniques (2)  
MU 3xx Instrumental Ensemble (4)

#### **VOCAL (19 Hours)**

- ME 373 Choral Tech: Elem & Secon (3)  
ME 443 Choral Literature (2)  
MU 123 Singer's Diction I (1)  
MU 343 Conducting/Choral Lit (2)  
MU 3xx Choral Ensemble (3)  
MU 424 Vocal Pedagogy (2)

#### **Additional Requirements:**

- MM 106 Aural Skills II (1)  
MM 207 Aural Skills III (1)  
MP 211 Applied Piano (1)  
MU 124 Singer's Diction II (1)  
MU 3xx Choral Ensemble (4)

#### **Professional Education Requirements: 37 Hours**

*(A minimum grade of "C" is required in each professional education course.)*

- EF 400 Seminar/Educ Issues for Student Teachers (1)  
EX 390 Psych & Educ of Except Child (3)  
ME 222 Principles of Teaching Music (3)  
ME 270 Field Experience Block II (1)  
ME 371 General Music Methods: Elem & Sec (3)  
ME 370 Field Experience Block III (1)  
ME 465 Student Teaching (12)  
PY 222 Development of the Adolescent (3)  
SE 350 Pedagogy 1: Prin of Effect Teach (3)  
SE 365 Pedagogy 2: Sec Schl-Interdis Mthds/Tech (4)  
SE 385 Pedagogy 3: Adv Mthds of Middle/Sec Teaching (3)

## **BACHELOR OF MUSIC DEGREE**

Designed for students with an interest in professional careers in music.

### **MUSIC**

#### **79-83 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)

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- MH 252 Hist & Lit of Music from 1827 (3)
- MM 001 Aural Skills Entry Level Proficiency (0)
- MM 002 Aural Skills Exit Level Proficiency (0)
- 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)
- MM 312 Adv Form & Analysis (3)
- MU 001 Piano Proficiency (0)
- MU 002 Sophomore Review (0)
- MU 110 Recitals & Concerts (eight 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 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 394 Music & Culture: 1600-1750 (3)
- UI 396 The Age of Beethoven (3)
- UI 397 Music in Medieval & Renaissance Culture (3)

\*Required for Composition Option

## Choose One Option:

### COMPOSITION (42 Hours)

- MM 314 Instrumentation & Arranging (2)
- MP 197 Applied Music: Composition (2)
- MP 211 Music-Private Piano (2)
- MP 298 Applied Music: Composition (4)
- MP 399 Applied Music: Composition (6)
- MP 499 Applied Music: Composition (6)
- MU 299 Chamber Music (2)
- MU 430 Pedagogy: Applied Area (2)
- MU 432 Literature: Applied Area (2)
- MU 3xx Major Ensemble (8)
- MU xxx Music Electives MU 300 or above (6)

### Additional Requirement:

- xx xxx 6 Hours in any foreign language offered by Southeast

### 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)

### Additional Requirement:

- xx xxx 6 Hours in any foreign language offered by Southeast

### 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)
- MU 432 Literature: Applied Area (2)
- MU xxx Music Elective MU 299 or above (6)

### Additional Requirement:

- xx xxx 6 Hours in either French or German

## 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) online program in nursing after registered nurse licensure is received in the United States.

See Admission to Nursing Programs criteria under Admissions, page 14. 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)
MA 155	Statistical Reasoning (3)
PY 220	Psych Dev Across Lifespan (3)
UI 412	American Health Care System (3)

#### Required Nursing Courses (RN-BSN):

NS 380	Holistic Assessment (4)
NS 385	Research in Professional Practice (3)
NS 386	Prof Practice: Community Health (6)
NS 390	Framework for Professional Nursing (4)
NS 480	Prof Practice: Leadership & Mgmt (6)
NS 483	Gerontological Nrsng/Care of Older Adults (3)

For required support courses and advanced placement credit information, contact the Department of

Nursing.

University Studies Competency Credit for RN-BSN Students: In an effort to recognize professional nursing experiences, an RN may receive credit for up to nine hours for the following University Studies requirements:

For all registered nurses who have been employed as an RN less than five years, credit for the Living Systems category will be assigned to a previously completed credit bearing course upon verification of holding a license as a Registered Nurse.

For registered nurses who have been employed as an RN for five-nine years, credit for the Living Systems and Behavioral Systems categories will be assigned to previously completed credit bearing courses upon verification of RN work experience.

For registered nursing with 10 years or more working experience that includes nurse/management/leadership experience in which they were required to exercise supervisory/presentation/training competencies, credit for the Living Systems, Behavioral Systems, and Oral Expression categories will be assigned to previously completed credit bearing courses upon verification of RN work experience. See RN-BSN handbook for additional information.

## 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 any required developmental courses 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.

**Minimum Degree requirements** 72 Hours

**Required Courses** 39 Hours

**Additional Requirements** 33 Hours

### 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 Fam Process & 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/Appl: Preschool (3)  
 CF 285 Learn Theory/Appl: Infants & Toddlers (3)  
 CF 310 School Age Child Care (3)  
 CF 360 Family Life Education (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 128 Numbers & Operations for Educators (4)\*  
 PH 218 Physical Science: A Process Approach (3)\*  
 PS 103 U.S. Political Systems (3)\*  
 SW 121 Helping Skills for Human Services (3)\*  
 UI 100 First Year Experience (3)  
 US 105 American History I (3)\*

### OR

- US 107 American History II (3)\*

*\*Fulfills University Studies requirement*

**NOTE:** MA 106 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 300 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 Prog Logic Circuits (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)  
 TN 255 Microcomputer Maint & Trblshng (3)  
 TN 275 Intro to Networks (3)  
 TN 375 Routing/Switching Essentials (3)  
 TN 395 Server Maint & Trblshng (3)  
 TN 425 Wireless Comm & Mobile Data Networks (3)  
 TN 475 Scaling Networks (3)  
 TN 563 Connecting Networks (3)

### Choose 6 hours from:

- CY 201 Intro to Cybersecurity (3)  
 IM 317 Industrial Internship (3)  
 TN 435 Network Security (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 HDLSL Video Capture (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 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, 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 for students who want to become chiropractors. 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 a limited 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 for students who want to become dentists. 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 dental schools and preparation for the DAT. Students should see the pre-dental advisor during their first semester at Southeast. There are more than 50 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-Medicine 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 for students who want to become physicians. 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 at least 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 for students who want to become optometrists. 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-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 required, dependent on school attending. 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, particularly complementary to the D.V.M. program. For more information, contact the Department of Agriculture.



# Minors



## **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  
Business Administration  
Business Law  
Chemistry  
Child Development  
Child Development- Childhood Trauma & Outcomes  
Coaching  
Commercial Photography  
Communication Disorders  
Communication for Health Professionals  
Communication for Legal Professionals  
Communication Studies  
Companion Animals  
Computer Networking  
Computer Science  
Construction Management  
Criminal Justice  
Criminology  
Cybersecurity  
Cybersecurity for Business Systems  
Dance  
Economics  
Electronics Technology  
Engineering Physics  
Entrepreneurship  
Environmental Science  
Equine Science  
Exercise Science  
Family Studies  
Fashion Entrepreneurship  
Fashion Merchandising  
Finance  
Fine Arts Entrepreneurship  
French  
Geographic Information Systems  
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 Management  
Mass Communication  
Mathematics  
Military Science  
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 Work  
Sociology  
Soils  
Spanish  
Sport Management  
Substance Abuse Prevention  
Supply Chain Management  
Sustainability  
Theatre: Acting  
Theatre: General  
Theatre: Technical  
Writing

**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****18 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)

HO 110 Intro to Horticulture (3)

**Choose 6 Hours AG, AO, AY, HO courses (300-400 level)****AGRICULTURE/HORTICULTURE  
ENTREPRENEURSHIP****15 Hours Required****Required Courses:**

ER 361 Prin of Entrepreneurship (3)

ER 551 Managing/Growing a New Venture (3)

ER 561 Bus Planning for New Ventures (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)

**Choose 12 Hours (6 hours must be 300 level or above):**

AN 100 Foundations of Human Behvr (3)

AN 101 Observing Cultures (3)

AN 180 Intro/Phys Anthro &amp; Archaeology (3)

AN 333 Applied Anthropology (3)

AN 341 Intro Linguistic Anthropology (3)

AN 355 Special Topics in Anthropology (3)

AN 360 Meso-American Civilizations (3)

AN 375 Anthropology of Religion (3)

AN 493 Anthropology Theory Sem:Cult Anthr/  
Linguistics (3)

UI 339 North American Indians (3)

**ARCHAEOLOGY****18 Hours Required****Required Courses:**

AN 180 Intro/Phys Anthro &amp; Archaeology (3)

AN 382 Archaeology: Method &amp; Theory (3)

**Choose 12 Hours (6 hours must be 300 level or above):**

AN 100 Foundations of Human Behvr (3)

AN 101 Observing Cultures (3)

AN 181 Intro Cultural Anthropology (3)

AN 250 World Archaeology (3)

AN 313 Archaeological Fieldwork (3)

AN 319 Archaeological Laboratory (3)

AN 355 Special Topics in Anthropology (3)

AN 360 Meso-American Civilizations (3)

AN 381 North American Archaeology (3)

AN 415 Forensic Anthropology (3)

AN 493 Anthropology Theory Sem:Cult Anthr/  
Linguistics (3)

AN 551 Historic Archaeology Fieldwork (3)

UI 339 North American Indians (3)

**ARCHITECTURAL DESIGN****15 Hours Required****Required Courses:**

CM 126 Computer Aided Arch Drafting (3)

CM 226 Residential Arch Drft &amp; Design (3)

CM 322 Commercial Arch Drft and Design (3)

**Choose two courses: (Only one UI class can be selected)**

CM 143 Constr. Methods and Materials I (3)

CM 310 Constr Codes &amp; Compliances (3)

CM 315 Constr Contracts/Legal Iss (3)

HO 330 Landscape Planting Design (3)

UI 337 Issues in Modern Architecture (3)

UI 340 Housing Perspectives

**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 2D Design (3)

AR 106 3-D Design (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 555 Intro to Autism Spectrum Disorders (3)

EX 556 Comm Interv/Strat for Indiv w/ Autism Spec Dis (3)

EX 559 Clinical Practicum (3)

**Choose One 9 Hour Track****TRACK I - Applied Behavioral Analysis (ABA) Focus**

AB 531 Basic Prin of Appl Behvrl Analysis (3)

AB 532 Mthds for Studying Behvr of Indiv (3)

AB 533 ABA1: Assessment & Skill Acquisition (3)

**NOTE:** Track 1 is restricted to students accepted into The Accelerated ABA program

**TRACK 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)

EX 304 Behavior Management (3)

EX 557 Behavior Mgmt/Interventions (3)

**Choose 3 Hours:**

CF 280 Lrng Theory/Application: Preschool (3)

CF 285 Lrng Theory/Apppl: Infants/Toddlers (3)

EX 558 Seminar in Autism (3)

**BIOLOGICAL AND MEDICAL SCIENCES  
ENTREPRENEURSHIP****18 Hours Required****Required Courses:**

ER 361 Prin of Entrepreneurship (3)

ER 551 Managing/Growing a New Venture (3)

ER 561 Bus Planning for New Ventures (3)

**Choose 9 Hours approved BI/BO/BT/ZO courses****BIOLOGY****21 Hours Required:**

BI 163 Evolution & Ecology (4)

BI 173 Cell & Organismal Biology (4)

BI 283 Genetics (4)

**Choose 9 Hours From:**

BI, BO, BT, ZO prefix courses at the 300-599 level

**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 I (3)

QM 258 Business Statistics II (3)

*\*All courses require minimum grade of 'C'.*

**BUSINESS LAW****15 Hours Required**

BL 255 Legal Environ of Business (3)

UI 366 Law & Economics (3)

UI 316 Contemporary Legal Studies (3)

**Choose 6 hours from:**

BL 563 Legal/Ethical Issues in Acctg (3)

BL 455 Contracts (3)

BL 573 Internship in Business Law (3)

CJ 320 Criminal Law (3)

CJ 370 Juvenile Justice (3)

CJ 422 Criminal Procedure (3)

MC 401 Communication Law (3)

SM 540 Legal Aspects/Phys Activity/Sport (3)

PS 387-389 Indep Study in Poli Sci (1-3)

PL 120 Symbolic Logic I (3)

PS 390 The American Judicial System (3)

- PS 425 Administrative Law & Procedure (3)  
 PS 490 Constitutional Law (3)  
 PY 359 Psychology and the Law (3)  
 SC 314 Argumentation (3)  
 UI 305 Judicial Reasoning (3)

## 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 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)

## CHILD DEVELOPMENT-CHILDHOOD TRAUMA & OUTCOMES

### 18 Hours Required

#### Required Courses:

- CF 120 The Child (3)  
 HS 301 Found Chld Maltrtmnt/Chld Advoc (3)  
 HS 401 Child Advocacy II (3)  
 HS 402 Child Advocacy III (3)  
 PY 444 Childhood Psychopathology (3)  
 SW 205 Bldg the Professional Relationship (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 Hours Required

- CD 211 Anat/Phys of Spch Mech (4)  
 CD 225 Phonetics (3)  
 CD 230 Intro to Comm Disorders (4)  
 CD 340 Normal Spch & Lang Develop (3)  
 UI 454 Perspectives of Literacy (3)

## COMMUNICATION FOR HEALTH PROFESSIONALS

### 18 Hours Required

#### Required Courses:

- SC 215 Intercultural Communication (3)  
 SC 301 Found of Health Communication (3)  
 SC 355 Relational Communication (3)  
 UI 345 Nonverbal Communication (3)

#### Choose 6 Hours From:

- SC 314 Argumentation & Problem Solving (3)  
 SC 335 Interviewing (3)  
 SC 360 Experiential Comm Projects (1-3)  
 SC 406 Negotiation/Conflict Mgmt (3)  
 SC 510 Leadership & Team Building (3)  
 UI 425 Persuasion (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)
- UI 504 Leaders of Social Change (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)

**Choose two of the following:**

- AY 300 Domestic Animal A&P I (3)
- AY 304 Principles of Animal Nutrition (3)
- AY 310 Animal Anat & Phys II (3)
- AY 350 Animal Reproduction (3)

**COMPUTER NETWORKING**

**15 Hours Required**

- TN 275 Intro to Networks (3)
- TN 255 Microcomputer Maint & Trblshntg (3)
- TN 375 Routing/Switching Essentials (3)

- TN 395 Server Maint & Trblshooting (3)
- TN 563 Connecting Networks (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**

**CONSTRUCTION MANAGEMENT**

**15 Hours Required**

- CM 126 Computer Aided Arch Drafting (3)
- CM 243 Construction Methods and Mats (3)
- CM 320 Construction Cost Estimating (3)
- CM 330 Construction Planning & Scheduling (3)
- CM 2xx-5xx (3)

**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 Theories of Crime (3)
- SO 444 Deviant Social Behavior (3)

**Choose 9 Hours From:**

- CJ 375 Victimology (3)
- CJ 841 Death Penalty in America (3)
- SO 300 Organized/White Collar Crime (3)
- SO 305 Race, Gender, Class & Crime (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)

**CYBERSECURITY**

**26 Hours Required**

**Required Courses:**

- CS 155 Computer Science I (4)
- CS 265 Computer Science II (4)
- CY 201 Intro to Cybersecurity (3)
- CY 310 Info Security & Assurance (3)
- CY 320 Info Security in Syst Admin (3)

- MA 464 Mathematical Cryptography (3)  
 TN 275 Intro to Networks (3)  
**Choose 3 Hours From:**  
 CS 280 Computer Systems (3)  
 EP 305 Digital & Analog System Design (3)  
 ET 245 Logic Circuits (3)

## CYBERSECURITY FOR BUSINESS SYSTEMS

### 16 Hours Required

#### Required Courses:

- CS 155 Computer Science I (4)  
 CY 201 Intro to Cybersecurity (3)  
 TN 275 Intro to Networks (3)  
 UI 3xx/CY 3xx Digital Forensics (3)

#### Choose 3 hours from:

- AC 330 Accounting Analytics (3)  
 AC 550 Fraud Exam/Forensic Acctg (3)  
 CY 320 Info Security in Syst Admin (3)  
 MA 464 Mathematical Cryptography (3)  
 MI 375 Mgmt Information Systems (3)

## DANCE

### 23 Hours Required

#### Required Courses:

- DA/TH 105 Rehearsal & Production I (1)  
 DA/TH 305 Rehearsal & Production II (1)  
 DA 280 Movement Analysis I (3)  
 DA 490 Dance History (3)

#### Choose 15 Hours (9 Hours must be upper division):

- DA 211 Ballet I (1)  
 DA 216 Pointe I (2)  
 DA 221 Modern Dance I (1)  
 DA 226 Jazz Dance I (1)  
 DA 227 World Dance I (2)  
 DA 228 Hip Hop Dance I (2)  
 DA 236 Tap Dance I (1)  
 DA 310 Dance Musicianship (3)  
 DA 311 Ballet II (2)  
 DA 316 Pointe II (2)  
 DA 321 Modern Dance II (2)  
 DA 326 Jazz Dance II (2)  
 DA 327 World Dance II (2)  
 DA 328 Hip Hop Dance II (2)  
 DA 336 Tap Dance II (2)  
 DA 380 Choreography I (3)  
 DA 391 Topics in Dance (3)  
 DA 396 Movement Analysis II (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)  
 DA 497 Choreography III (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:

- ER 361 Prin of Entrepreneurship (3)  
 ER 531 Innovation (3)  
 ER 551 Manag & Grow New Ventures(3)  
 ER 581 Entrepreneur Pract: Venture Creation (3)

**Choose 3 hours:**

- ER 521 Topics in Entrepreneurship (3)  
ER 561 Bus Planning for New Ventures (3)

**ENVIRONMENTAL SCIENCE****21-23 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 360 Recycling & Waste Management (3)  
UI 387 Environmental Law & Public Policy (3)

**EQUINE SCIENCE****15 Hours Required****Required Courses:**

- AY 101 Intro to Animal Science (3)  
AY 205 Horse Science (3)  
AY 305 Advanced Horse Science (3)

**Choose 6 hours from the following:**

- AY 350 Animal Reproduction (3)

**AND**

- AY 375 Animal Breed Improvement (3)

**OR**

- AY 304 Prin of Animal Nutr & Feeds (3)

**AND**

- AY 425 Feed of Nonruminant Animals (3)

**EXERCISE SCIENCE****20 Hours Required****Required Courses:**

- HL 231 Fitness Conditioning (3)  
HL 331/031 Exercise Physiology (4)  
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 & Prac (3)  
HL 346 Weight Mgmt Prin & Prac (3)  
HL 510 Health Concerns of Aging (3)  
PE 464 Kinesiology (3)

**Additional Requirements: 14-16 Hours**

- BS 113/013 Anatomy & Phys I (4)  
BS 114/014 Anatomy & 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 STUDIES****18 Hours Required****Required Courses:**

- CF 102 Relationships in 21st Cent (3)  
CF 209 Intro to Fam Process & Systems (3)  
CF 220 Young & Middle Adulthood (3)  
CF 340 Family Law, Advoc & Policy (3)  
CF 385 Stress, Violence, Trauma & Families (3)  
CF 402 Relationships of Commitment (3)

**FASHION ENTREPRENEURSHIP****15 Hours Required****Required Courses:**

- ER 361 Prin of Entrepreneurship (3)  
ER 551 Managing/Growing a New Venture (3)  
ER 561 Bus Planning for New Ventures (3)

**Choose 6 Hours approved FA courses****FASHION MERCHANDISING****18 Hours Required****Required Courses:**

- FA 110 Intro to Fashion Merchandising (3)  
FA 114 Visual Merchandising (3)  
FA 207 Textiles (3)  
FA 350 Apparel Aesthetics (3)

**Choose 6 Hours From:**

- FA 300 Prof Image & Behavior (2)  
FA 450 Global Fashion Economics (3)  
UI 480 Soc Psych Aspects of Dress (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)

- ER 361 Prin of Entrepreneurship (3)  
 ER 551 Managing/Growing a New Venture (3)  
 ER 561 Bus Planning for New Ventures (3)

**Choose 3 Hours from:**

- AR 352 Gallery and Museum Internship (3)  
 AR 399 Professional Practices in Visual Art (3)  
 MU/TH 375 Performing Arts Mgmt (3)

**FRENCH****18 Hours Required****Required Courses:**

- 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)

**Choose 6 Hours FR courses (300-500 level)****GEOGRAPHIC INFORMATION SYSTEMS****15 Hours Required****Required Courses:**

- AG 444 Spatial Analysis (3)  
 GO 340/540 Remote Sensing (3)  
 GO 445 Geographic Info Systems (3)  
 IU 314/GO 514 GeoInfo Science Today (3)

**Choose 3 Hours From:**

- AG 440 Precision Agriculture (3)  
 CJ 430 Policing in an Information Age (3)  
 GO 520 GIS Application (3)

**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)  
 EH 103 Modern Eur Civ (3)

**OR**

- WH 110 Chinese Civilization (3)

**OR**

- WH 130 Latin American Civ (3)

**Choose 3 hours of upper division electives from an approved list**

*(See Dept of Modern Languages, Anthropology & Geography 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 100 Chinese Language & Culture I (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:

ER 361	Prin of Entrepreneurship (3)
ER 551	Managing/Growing a New Venture (3)
ER 561	Bus Planning for New Ventures (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

### 17 Hours Required

#### Required Courses:

HO 110	Intro to Horticulture (3)
HO 225	Ident/Use of Deciduous Plants (2)
HO 235	Ident/Use of Evergreen Plants (2)
HO 245	Ident/Use of Interior/Tropical Plants (2)
HO 255	Ident/Use of Annual/Perennial Plants (2)

### Choose 6 hours from:

HO 310	Alternative Agriculture (3)
HO 320	Nursery Administration & Culture (3)
HO 321	Advanced Plant Propagation (3)

- HO 330 Strategic Landscape Design (3)  
 HO 342 Prod of Horticultural Crops (3)  
 HO 350 Adv Greenhouse Management (3)  
 HO 355 Interior Plantscaping (3)  
 HO 430 Adv Turfgrass Management (3)  
 HO 431 Landscape Install & Maintenance (3)  
 HO 445 Composting/Utiliz in Hort Systems (3)  
 HO 450 Vineyard Operations (3)  
 HO 464 Adv Horticulture Technologies (3)  
 HO 470 Strategic Urban Hort (3)

## HOSPITALITY MANAGEMENT

### 15 Hours Required

#### Required Course:

- HM 150 Intro to Hospitality Mgmt (3)

#### Choose 12 hours from:

- HM 205 Basic Culinary Techniques (3)  
 HM 260 Meeting & Event Mgmt (3)  
 HM 270 Hotel & Restaurant Operation (3)  
 HM 304 Food, Bev & Labor Cost Cntrls (3)  
 HM 350 Advanced Culinary Practices (3)  
 HM 390 Hosp Sales & Marketing (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:

- ER 361 Prin of Entrepreneurship (3)  
 ER 551 Managing/Growing a New Venture (3)  
 ER 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 Bldg Automation & Technology (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 Computer Information Systems I (3)

#### Choose 6 Hours From:

- IS 130 Application Development I (3)  
 IS 245 Web Devlpmnt & Security (3)  
 IS 275 Computer Information Systems II (3)

Choose 6 hours of IS prefix courses at the 300-500 level

## INTERIOR DESIGN

### 15 hours required

#### Required Courses:

- DS 104 Exploring Interior Design (3)  
 DS 205 History of Interiors I (3)

#### OR

- DS 206 History of Interiors II (3)  
 DS 207 Interior Systems (3)

**Choose 6 Hours From:**

- DS 330 Lighting & Elect Systems (3)
- DS 332 Mats for Interior Environ (3)
- UI 340 Housing Perspectives (3)
- UI 401 American Cultural Landscapes (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 550 Improving Team Performance (3)
- MG 562 Organization Theory & Design (3)

**Choose 6 Hours From\*:**

- ER 361 Princ of Entrepreneurship (3)
- ER 531 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 Integ Marketing Comm (3)
- MK 443 Integrated Mktg Comm Practicum (3)

**MARKETING: MARKETING MANAGEMENT**

**15 Hours Required**

**Required Courses:**

- MK 301 Principles of Marketing (3)
- MK 343 Integr Marketing Communications (3)
- MK 346 Distribution Management (3)
- MK 348 Brand Marketing (3)

**Choose any MK course except 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 Integ Marketing Comm (3)
- MK 349 Retail Marketing (3)

**Choose 6 hours of MK courses except 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 547 Sales Management (3)

**Choose any MK course except 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 228 and MA 230) including 6 hours at the 300-500 level.**

**MILITARY SCIENCE****15 Hours Required****Required Courses:**

- NG 101 Intro to Military Science (3)

**OR**

- NG 103 Army War Leader Course (3)  
 NG 301 Adaptive Leadership I (3)  
 NG 302 Adaptive Army Leadership II (3)

**Choose 6 Hours From:**

- NG 201 Intro Army Team Leadership I (3)  
 NG 202 Team Leadership II (3)  
 NG 401 Appl of Army Leadership Skills (3)  
 NG 402 Prep for First Duty Assignment (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 182 Music: An Artistic Expression (3)  
 MU 3xx Music Ensembles (2)  
 UI 310 American Musical Experience (3)

**Choose 7 Hours From:**

- ME 2xx 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 3xx 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****15 Hours Required****Required Courses:**

- FN 235 Nutrition for Health (3)  
 FN 255 Nutrition I (3)  
 FN 355 Lifespan Nutrition (3)

**Choose 6 Hours From:**

- FN 240 Intro to Food Science (3)  
 FN 320 Essent of Food Science (4)  
 FN 401 Sports Nutrition (3)  
 FN 502 Nutrition II (3)  
 FN 520 Nutrition & Aging (3)  
 HE 520 Tech Tchg 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)

**OR**

- PS 471 Sr Seminar in Poli Sci (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****15 Hours Required****Required Courses:**

- PY 102 Introduction to Psychology (3)  
 PY 120 The Child (3)

**OR**

- PY 222 Development of the Adolescent (3)  
 PY 220 Psych Devel Across Life Span (3)

**Choose 6 Hours From:**

- PY 325 Psych Devel of the Family (3)  
 PY 329/529 Psychology of Death & Dying (3)  
 PY 444 Childhood Psychopathology (3)  
 PY 525 Maturity & Aging (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 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 Anthropology of Religion (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 302 Small-Press Publishing (3)  
 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)

**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 WORK****15 Hours Required****Required Courses:**

- SW 110 Intro to Social Work (3)  
 SW 205 Bldg the Prof Relationship (3)  
 SW 207 Undrstndng Cultrl/Soc Diversity (3)  
 SW 315 Social Work Intervention (3)

**Choose 3 Hours From:**

- HS 301 Found Child Maltreatmnt/Advocacy (3)  
 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)

**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 &amp; Plant Nutrition (3)

AO 555 Soil Classification/Resource Mgt (3)

**SPANISH****18 Hours Required****Required Courses:**

SN 100 Spanish Language &amp; Culture I (3)

SN 120 Spanish Language &amp; Culture II (3)

SN 200 Spanish Language &amp; 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 &amp; Society (3)

SM 220 Intro to Sport Management (3)

SM 360 Sporting Event Management (3)

SM 540 Legal Aspects of Sport &amp; Phys Activity (3)

**Select one course from the following:**

SM 250 Governance of Sport Organizations (3)

SM 340 Sport Ethics (3)

SM 455 Sport-Related Venue Dsgn/Operation (3)

SM 460 Fund of Sport Delivery Systems (3)

SM 570 Mgmt &amp; 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 &amp; Behavior (3)

**Choose 3 hours:**

HL 312 Sport &amp; Exercise Pharmacology (3)

HL 320 Community Health (3)

HL 526 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 340 Mentoring Principles (3)

SR 444 Treatment Strategies (3)

**SUPPLY CHAIN MANAGEMENT****15 Hours Required**

MI 375 Management Info Systems (3)

QM 352 Quantitative Analysis (3)

QM 558 Prin of Supply Chain Mgmt (3)

**Choose 6 hours from:**

FI 362 Adv Financial Mgmt (3)

FI 368 Investments (3)

MG 354 Bus Negotiations: Conc/Pract (3)

MG 470 Leadership in Mgmt (3)

MK 346 Distribution Management (3)

MK 478 Global Logistics (3)

MK 560 International Mktg (3)

QM 358 Operations Mgmt (3)

**SUSTAINABILITY****21 Hours Required****Required courses:**

AG 201 World Food &amp; Society (3)

**OR**

EC 101 Econ Problems &amp; Policies (3)

**OR**

EC 215 Prin of Microeconomics (3)

**OR**

MN 220 Engr Economic Analysis (3)

BS 105 Environmental Biology (3)

UI 429 Environmental Ethics (3)

**Choose 6 hours from:**

AG 433 Agriculture &amp; Food Policy (3)

AO 327 Sustainable Agriculture (3)

BI 435 Conservation Biology (3)

BI 440 Ecology &amp; Mgmt of Wetlands (3)

DS 104 Intro to Interior Design (3)

EC/EV 344 Environmental Economics (3)

ET 426 Sustainable Energy Technologies (3)

FM 564 Sustainable Fac Planning/Design (3)

HO 355 Interior Landscaping (3)

IM 555 Sustainable &amp; Green Manufacturing (3)

**Choose 6 hours from:**

IU 318 Sust Energy, Agric &amp; Industry (3)

UI 344 Plants &amp; Humanity (3)

UI 347 Living in a Global Society (3)

# 150 / Minors – Certificate Programs

Southeast Missouri State University 2017-2018

- UI 360 Recycling & Waste Management (3)
- UI 386 Environmental Health (3)
- UI 387 Environ Law & Public Policy (3)
- UI 436 Agricultural Ethics (3)

## **THEATRE: ACTING**

### **23 Hours Required**

#### **Required Courses:**

- TH/DA 105 Rehearsal & Production I (1)
- TH 218 Acting I (6)
- TH/DA 305 Rehearsal & Production II (1)
- TH 316 Acting II (6)
- TH 321 Stage Combat I (3)
- TH 416 Acting Styles (3)

#### **Choose 3 Hours From:**

- TH 317 Voice for the Actor I (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 I (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 II (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 I (1)
- TH 155 Makeup (3)
- TH 231 Stagecraft I (3)
- TH 251 Costume Construction (3)
- TH 275 Stage Management (3)
- TH 291 Properties & Crafts I (3)
- TH 265 Drawing for the Theatre (3)
- TH/DA 305 Rehearsal & Production II (1)

### **Choose 9 Hours From:**

- TH 267 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 I (3)
- TH 371 Scenic Design I (3)
- TH 375 Performing Arts Mgmt (3)
- TH 386 Sound Design I (3)
- TH 391 Properties & Crafts II (3)
- TH 395 Period & Style (3)
- TH 450 Stage Lighting II (3)
- TH 451 Costume Design II (3)
- TH 471 Scenic Design II (3)
- TH 481 Scene Painting II (3)
- TH 486 Sound Design II (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 the following:**

- EN 201 Writing About Literature (3)
- EN 275 Intro to Creative Writing (3)
- EN 375 Intermediate Creative Writing (3)
- EN 470 Adv Creative Writing: Poetry (3)
- EN 478 Adv Creative Writing: Fiction (3)
- EN 572 Creative Nonfiction Essay (3)
- IU 309 Writing for Science & Tech (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.

## **AUTISM SPECTRUM DISORDER**

### **15 Hours Required**

- EX 555 Intro to Autism Spectrum Disorder (3)
- EX 556 Comm Interv/Strat for Indiv with Aut Spec Dis (3)
- EX 557 Behvr Mgmt/Interv for Indiv with Aut Spec Dis (3)
- EX 558 Research Autism Spectrum Disorder (3)
- EX 559 Clinical Practicum (3)

## 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 (2)

EN 486 Sociolinguistics (3)

#### OR

SE 275/EL 274 Diversity in Am Schools (3)

TL 425 Matl & Assmt for ESL Clsm (3)

#### OR

TL 530 Practicum for TESOL (3)

TL 585 Methd/Tech for Teach ESOL (3)

#### OR

EN 315 Found of Teaching ELLs (3)

## HEALTHCARE FACILITIES OPERATIONS

### 27 Hours Required

MA 134 College Algebra (3)

MN 220 Engineering Economic Analysis (3)

CM 310 Building Codes & Compliance (3)

CM 315 Construction Contracts & Legal Issues (3)

CM 325 Building Mechanical & Electrical Systems (3)

FM 554 Facilities Operation & Supervision (3)

FM 564 Sustainable Facilities Planning & Design (3)

FM 565 Building Automation & Technology (3)

IM 317 Cooperative Industrial Internship (3)

#### OR

IM 506 Projects in Industrial & Engineering Technology (3)

## TEACHING ASSISTANT PREPARATION-ELEMENTARY/SPECIAL EDUCATION

### 63 Hours

#### Required Courses:

BS 118 Intro to Process Science (1)

BS 218 Bio Science: Process Approach (3)

CF 233 Creat Thought/Express in Children (3)

EC 101 Econ Problems/Policies (3)

ED 280 Intro to Education (3)\*

EL 274 Diversity in America's Schools (3)

EL 300 Instr/Assist Tech/Univ Desgn Lrng Envir (3)

EN 100 English Composition I (3)\*\*

EN 140 Rhetoric/Critical Thinking (3) \*\*

LI 243 Children's Literature (3)

MA 128 Numbers/Operations for Educators (4)

MA 228 Geometry/Measure for Educators (4)

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)

**6 hours approved electives from the following areas, with advice of advisor - Autism, English, Family Engagement, Fine Arts, Foreign Language, Inclusion, Math, Middle School certification, Science, Social Science, TESOL**

*\*B or higher required*

*\*\*C or higher required*

## TEACHING ASSISTANT PREPARATION-MIDDLE/SECONDARY EDUCATION

### 63-65 Hours

#### Required Courses:

ED 280 Intro to Education (3)\*

EN 100 English Composition I (3)\*\*

EN 140 Rhetoric/Critical Thinking (3)\*\*

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)**

*\*B or higher required*

*\*\*C or higher required*

# Course Listings



**COURSE LISTINGS****COURSES ARE LISTED ALPHABETICALLY BY  
NAME OF DISCIPLINE**

*(Course numbers which have been changed since the  
2016-2017 BULLETIN are listed in parenthesis.)*

Accounting (AC)  
 Administrative Services (AD)  
 Aerospace Studies (AS)  
 Agriculture (AG)  
 Agronomy (AO)  
 Animal Science (AY)  
 Anthropology (AI, AN)  
 Applied Behavior Analysis (AB)  
 Art (AR)  
 Art History (AH)  
 Athletic Training (TX)  
 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, LE)  
 Cybersecurity (CY)  
 Dance (DA)  
 Early Childhood Education (CE)  
 Economics (EC)  
 Education (ED)  
 Educational Administration (EA)  
 Educational Foundations (EF)  
 Electronics Technology (ET)  
 Elementary Education (EL)  
 Engineering Physics (EP)  
 English (EN)  
 Entrepreneurship (ER)  
 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)  
 Healthcare Management (HA)  
 Historic Preservation (HP)  
 History, European (EH)  
 History, General (GH)  
 History, United States (US)  
 History, World (WH)  
 Horticulture (HO)  
 Hospitality Management (HM)  
 Human Environmental Studies (HE)  
 Human Services (HS)  
 Industrial and Systems Engineering (EG)  
 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)  
 Military Science (NG)  
 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)  
 Russian (RN)  
 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)  
 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, owner's equity, revenues, and expenses are detailed. Prerequisite: MA 134 with minimum grade of C; sophomore standing. (3)

**AC 222. Principles of Accounting II.** Examines principles and procedures of accounting. Long-term liabilities, investments, cash flow statement, 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 221 with minimum grade of 'C'; or consent of department chairperson. (3)

**AC 330. Accounting Analytics.** Emphasis on spreadsheet and general ledger applications from the perspective of accounting information and business processes. Prerequisites: AC 222; AC 321; MI 375; with minimum grades 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. Prerequisites: AC 222 and AC 321 minimum grades 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. Prerequisites: AC 222 and AC 321 with minimum grades 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. Prerequisites: AC 222 and AC 321 with minimum grades 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, governmental accounting, 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, audit procedures, statistical sampling, and audit research using electronic databases and the Internet. Prerequisite: AC 437 with minimum grade of C or consent of instructor. (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. Prerequisite: 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. Prerequisite: AC 222 with minimum grade of C.(3)

**AC 550. Fraud Examination and Forensic Accounting.** In-depth study of fraud examination with focus on causes of fraud, controls to prevent fraud, company management and the accountant's role in deterring and detecting fraud. Prerequisites: AC 222 and AC 321 with minimum grades of C. (3)

**AC 573. Accounting Internship.** A supervised work experience in professional accounting. Forty contact hours required for each credit hour. Prerequisites: Junior standing with a cumulative and major 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. (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 111. Agribusiness Orientation.** Introduction of soft skill sets including resumes, networking, and job searches. Introductory course geared toward incoming freshmen and transfer students interested in Agribusiness. Pre- or co-requisite: UI 100. (1)

**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. Prerequisite: MA 106. (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. Prerequisite: AO 120 or AY 101 or Living Systems. (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. Prerequisite: AO 120 or AY 101 or Living Systems. (3)

**AG 313. Agribusiness Social Media.** How to effectively differentiate social media outlets for an

agribusiness improvement and market and their effect on the agriculture mindset of both the consumer and the agriculturalist. Pre- or co-requisite: AG 250. (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. Prerequisites: AC 221; AG 245. (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 381. Agribusiness Management II.** Principles and policies associated with a for-profit small agribusiness. Prerequisites: AD 101 or AG 208; AG 245; AG 250; MA 106 with a minimum grade of C. (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 120/125 or consent of instructor. (3)

**AG 444. Spatial Analysis in GIS.** Understanding of spatial relationships and methods to analyze those relationships using GIS and geostatistics for model development. (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: MA 106 with a minimum grade of C, or 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 495. Agribusiness Assessment.** Required of all Agribusiness majors. EXIT survey and online assessments. EXIT survey should be taken during last full semester on campus. Pre- or co-requisite: AG 355. Credit/no credit. (0)

**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. (University Studies course) (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 or AO 125. (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 120/125 or BI 163. (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 120/125; 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. Prerequisites: AO 120/125. (3)

**AO 327. Sustainable Agriculture.** Designed to introduce students to ecological principles and analysis of sustainability of agricultural systems. Prerequisite: AO 120/125. (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 120/125, BS 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 120/125; 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: AO 120; AY 101; HO 130; or BI 283. (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 120/125.

**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. (University Studies course) (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 210. Animal Welfare.** Animal welfare viewpoints affecting veterinarians, animal care staff, researchers, and those interested in livestock and/or companion animal ownership. Pre- or co-requisite: AY 101 or BI 163. (2)

**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 ZO 310. (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: AO 120; AY 101/105. (3)

**AY 305. Advanced Horse Science.** Advanced management practices in horse care, feeding, and reproduction. Two lectures; two-hour lab. Prerequisite: AY 205. (3)

**AY 306. Companion Animal Diseases.** Study of companion animals' infectious and non-infectious diseases, their parasites and parasitic diseases. Pre- or co-requisite: AY 200. (3)

**AY 310. Animal Anatomy and Physiology II.** Detailed investigations into the anatomy and physiology of domestic animals, including the respiratory, digestive

and nervous systems. Two lectures; two-hour lab. Pre- or Co-requisite: AY 300. (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 320. Meat Science.** Study of meat as a food source with emphasis on conversion of muscle to meat, storage, processing, palatability, safety and nutrition of meat. Pre- or Co-requisite: AY 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. Prerequisites: AY101/105; AY 200. (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. Prerequisites: AY 101/105; MA 106. (3)

**AY 405. Beef Production.** Breeding, feeding, and management of purebred and commercial cattle. Two

**AY 425. Feeding Nonruminants.** Nonruminant feeds, how they are processed, the nutritive value of feedstuffs and their correct feed schedules and calculations. Pre- or Co-requisite: AY 304. (3)

**AY 435. Feed Ruminants.** Ruminant feeds, how they are processed, the nutritive value of feedstuffs and their correct feed schedules and calculations. Pre- or Co-requisite: 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.** 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 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 pre-history, 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 415. Forensic Anthropology.** Fundamentals of bioanthropology applied to medico-legal contexts, including history, osteology, biological profile, postmortem interval, pathology/trauma analysis, and forensic archaeology. (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)**

## **APPLIED BEHAVIOR ANALYSIS (AB)**

**AB 403. Introduction to Ethics and Professional Conduct in Applied Behavior Analysis.** Introduction to the Professional and Ethical Compliance Code for Behavior Analysts and solving ethical dilemmas. Prerequisite: AB 531. (1)

**AB 405. Intensive Practicum in Applied Behavior Analysis I.** ABA Practicum at approved sites. Students will design, implement, and monitor intervention programs 15 hours/week under the supervision of a BCBA. Pre- or Co-requisites: AB 403; AB 533; AB 534. (6)

**AB 407. Intensive Practicum in Applied Behavior Analysis II.** ABA Practicum at approved sites. Students will design, implement, and monitor intervention programs 15 hours/week under the supervision of a BCBA. Pre- or Co-requisites: AB 403; AB 533; AB 534. (6)

**AB 531. Basic Principles in Applied Behavior Analysis.** Survey of the concepts and principles of operant and respondent conditioning, and applications and research from the science of Applied Behavior Analysis. Prerequisite: Junior standing or consent of instructor. (3)

**AB 532. Methods for Studying the Behavior of Individuals.** Introduction to the fundamentals of single-case and behavior analytic research methods, including designing, conducting, and evaluating Applied Behavior Analysis research. Pre- or co-requisite: AB 531. (3)

**AB 533. Applied Behavior Analysis I: Assessment and Skill Acquisition.** ABA intervention course that reviews assessment and intervention methods used to select appropriate behavioral goals, define targets, and teach new skills. Prerequisite: AB 532. (3)

**AB 534. Applied Behavior Analysis II: Functional Assessment and Behavior Reduction.** ABA intervention course that reviews functional assessment and intervention methods for reducing behaviors when treating individuals with developmental disabilities. Prerequisite: AB 532. (3)

**AB 535. Special Topics in Applied Behavior Analysis.** Teaches students how to document behavioral services, evaluate the effectiveness of intervention programs, train staff/caregivers, and understand behavioral pharmacology basics. Prerequisite: AB 532. (3)

## **ART (AR)**

**AR 001. Foundation Review.** Art majors pursuing the BA degree, the BFA degree, or the BS in Education degree must take 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. 2D Design.** 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. (University Studies course) (3)

**AR 106. 3D Design.** 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. Prerequisites: AR 100; AR 104; or consent of instructor. (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. Prerequisite: AR 104. (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. Prerequisite: AR 100. (3)

**AR 245. (Cross-listed as DA/MU/TH 245). Creating and Managing a Career in the Arts I.** Introduction to the professional career skills necessary to create new opportunities and succeed as an artist. Encompasses practices and methods for sustaining a successful career in dance, music, theatre, and the visual arts. Prerequisite: sophomore standing. (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. Pre- or Co-requisite: 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. Pre- or Co-requisite: 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; or consent of instructor. (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 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 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 once for credit. Co-requisite: 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 twice for credit. Prerequisite: 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. Co-requisite: 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. Pre- or 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 or consent of instructor. (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 or consent of instructor. (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. Prerequisite: completion of 45 hours. (3)

**AR 372. Independent Study in Art.** Directed individual study to further develop previously learned processes. Prerequisite: consent of chairperson with consent of faculty member of record. (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 twice for credit. Prerequisites: AR 323; or consent of instructor. (3)

**AR 399. Professional Practices in Visual Art.** Exploration of the practice and business of visual art with emphasis on career professionalism, entrepreneurship, basic art business practices, exhibition installation, and marketing. May be repeated twice for credit. Co-requisite: CL 004 for BA in Art; 60 credit hours; or permission of instructor. (3)

**AR 401. Intermediate Printmaking.** Continuing work in intaglio, screenprinting or lithography printmaking. Prerequisites: AR 302 or AR 303 or AR 501 or AR 502. May be repeated twice for credit. (3)

**AR 402. Advanced Printmaking.** Expanded research with emphasis on building a body of refined self-directed artwork in intaglio, screenprinting or lithography. May be repeated twice for credit. 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. May be repeated once for credit. (3)

**AR 409. Digital Illustration.** Advanced study of concepts and techniques of digital illustration. (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 322 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 twice for credit. Prerequisites: AR 323; or consent of instructor. (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. May be repeated twice for credit. Prerequisites: 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. Prerequisites: 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. May be repeated twice for credit. Prerequisites: AR 001; AR 332; or consent of instructor. (3)

**AR 426. Painting III.** Experimentation and self-directed interactive investigation of media and technique along with further exploration of contemporary trends in painting. Prerequisites: 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. May be repeated once for credit. 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. May be repeated twice for credit. 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. May be repeated twice for credit. 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. May be repeated for credit. 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. May be repeated twice for credit. 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. May be repeated twice for credit. Prerequisite: 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. May be repeated for credit. Prerequisite: AR 427 or consent of instructor. (3)

**AR 490. BFA Studio Capstone.** Preparation and creation of the Bachelor of Fine Arts senior project. May be repeated three times 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 twice for credit. (3)

**AR 502. Lithography.** Techniques of stone and plate lithography and development of personal expression. Prerequisite: AR 001. (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 global study of the visual arts from prehistoric times through the Gothic Age. (3)

**AH 210. Art History Survey II.** Global study of the visual arts from the Renaissance to the contemporary era. (3)

**AH 310. Classical Art.** History of Ancient art with emphasis upon Greek and Roman art. Pre- or co-requisite: AH 110 or AH 210. (3)

**AH 311. Modern Art.** History of major developments in the art of the 19th and early 20th centuries. (3)

**AH 312. Italian Renaissance Art.** Study of Italian art history from the late middle ages to the High Renaissance and Mannerist Era. Prerequisite: AH 210. (3)

**AH 315. Medieval Art.** Survey of medieval art history in Europe from the end of the Roman Empire to the 13th century. Prerequisites: AH 110; AH 210. (3)

**AH 510. Non-Western Art.** Survey of historical and contemporary culture in Central Africa, India, Japan, China, the Middle East and Meso-America. (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. (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 or AH 311; or consent of instructor. (3)

**AH 513. Northern Renaissance Art.** Survey of the history of Northern Renaissance Art from 1350-1575. Pre- or co-requisite: AH 110 or EH 101 or LI 311. (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 or consent of instructor. (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. (3)

**See University Studies (UI) listings for description of:**

**UI 337. Issues in Modern Architecture.** (3)

**UI 461. Issues in Modern Art.** (3)

## **ATHLETIC TRAINING (TX)**

**TX 065. Therapeutic Modalities Lab.** Designed to provide students with a practical understanding of the application and effects of therapeutic modalities commonly utilized in the allied health fields. Co-requisite: TX 265. (1)

**TX 251 (HL 251). Introduction to Athletic Injuries.** Current methods in prevention, recognition, and management of physical activity and sport related injuries. (3)

**TX 263. (Cross-listed as HL 263). Sports Injury Management.** Advanced study of prevention techniques, assessment and rehabilitation procedures, legal issues, and general medical conditions of the physically active. (3)

**TX 265. (Cross-listed as HL 265). Therapeutic Modalities.** Exploration of the physical principles, physiological effects, indications, contraindications, safety precautions, operating procedures of therapeutic modalities. Co-requisite TX 065. (3)

**TX 280. (Cross-listed as HL 280). Basic Skills in Athletic Training.** Basic preventative techniques and treatments including taping, bracing, wrapping, universal precautions, and wound care for the athletic patient. (1)

**TX 281 (HL 281). Practicum in Athletic Training I.** First of six supervised clinical experiences in the application of Athletic Training techniques. Focus on basic athletic training skills. (1)

**TX 282 (HL 282). Practicum in Athletic Training II.** Second of six supervised clinical experiences in the application of Athletic Training techniques. Focus is on assessment of emergency medical situations, orthopedic injuries of the lower extremity, and the thoracic and lumbar spine. (1)

**TX 321 (Cross-listed as 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, and orthopedic injuries of the lower extremity. (3)

**TX 322 (Cross-listed as HL 322). Advanced Injury Assessment II.** Study of athletic injury assessment principles and techniques at the advanced level. Specific areas include assessment of orthopedic injuries of the upper extremity, head, and face. (3)

**TX 323 (Cross-listed as HL 323). Advanced Injury Assessment III.** Assessment of the head, neck, face, thorax, abdomen, hip, and thoracic and lumbar spine injuries in athletes and others engaged in physical activity. (3)

**TX 382. (Cross-listed as HL 382). Medical Aspects of Sport.** An introduction to various medical conditions and disorders concerning allied health professionals in different areas of specialization. Prerequisites: BS 113; BS 114; TX 383 or consent of instructor. (3)

**TX 383. (HL 383). Practicum in Athletic Training III.** Third of five supervised clinical experiences in the application of Athletic Training techniques. Focus on lower extremity assessment and evaluation. Prerequisites: TX 282; TX 321. (1)

**TX 384. (HL 384). Practicum in Athletic Training IV.** Fourth of five supervised clinical experiences in application of Athletic Training techniques. Focus on

upper extremity assessment and evaluation. Prerequisites: TX 322; TX 323; TX 383. (1)

**TX 444 (Cross-listed as HL 444). Rehabilitation of Sport Injury.** Study of rehabilitation principles and techniques used to safely return an athlete/patient to their sport activity, following injury. Prerequisites: TX 265; TX 323; TX 383. (3)

**TX 472 (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: TX 384; TX 444 (3)

**TX 480 (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 444; TX 384. (2)

**TX 481 (HL 481). Practicum in Athletic Training V.** Final supervised clinical experience. Focus includes the development, implement, documentation of comprehensive injury/illness treatment plans including psychological, nutritional, pharmacological, and general medical considerations. Prerequisites: TX 384; TX 323; TX 444. (1)

**TX 482. Practicum in Athletic Training VI.** Sixth of six supervised clinical experiences in the application of Athletic Training techniques. Focus on therapeutic interventions including rehabilitation and modalities. (1)

## **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; one 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 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 EN 100 eligible. (University Studies course) (3)

**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. (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 310 and BS 242. 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 163. Evolution and Ecology.** Introduction to principles of evolution and ecology of organisms through application of the scientific method. Three lectures; one two-hour lab. Pre- or co-requisites: CH 185; MA 134 or MA 137 or MA 139 or MA 140. (University Studies course) (4)

**BI 173. Cell and Organismal Biology.** Introduction to cellular organization, energetics and physiology, and how these topics relate to organismal physiology. Three lectures; one two-hour lab. Prerequisites: BI 163 with a minimum grade of C; CH 185; MA 134 or MA 137 or MA 139 or MA 140. (4)

**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 310 or BS 240. (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. Prerequisite: BI 163 with a minimum grade of C. (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 163 with a minimum grade of C. (2)

**BI 283. Genetics.** Cell cycle, meiosis, transmission genetics, DNA replication, gene expression, and population genetics. Three lectures; one two-hour lab. Prerequisites: BI 173 with a minimum grade of C; MA 134 or MA 137 or MA 139 or MA 140. (4)

**BI 298-299. Biological Research I.** Faculty-directed independent research project. May be repeated once for credit. Prerequisite: BI 163 with a minimum grade of C. (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. Prerequisite: BI 283 with a minimum grade of C. (3)

**BI 310. General Microbiology.** Introduction to prokaryotes, eukaryotic microbes, and viruses. Consideration of their structure, metabolism, heredity, diversity, host-interactions, and laboratory techniques. Three lectures; one two-hour lab. Prerequisite: BI 283 with minimum grade of C. (4)

**BI 332. General Ecology.** An introduction to the fundamental principles of ecology. Two lectures; one two-hour lab. Prerequisite: BI 283 with a minimum grade of C. (3)

**BI 348. Marine Biology.** Introduction to the biology, ecology and conservation of organisms that live in the marine environment. Prerequisite: BI 283 with a minimum grade of C. (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. Prerequisite: BI 283 w/ grade of C (1)

**BI 389. Career Development in Biology.** Acquaint biology students with career options, skills and strategies for employment or application to graduate/professional programs. One two-hour lab. Prerequisites: BI 283 with minimum grade of C; junior standing. (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 283 with a minimum grade of C or BS 105; CH 185 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 283 with a minimum grade of C; CH 341. (3)

**BI 405. (Cross-listed as CH 405 and EP 405). Engineering in Science Education.** Engineering education for K-12. Pedagogies, resources, assessments of engineering concepts and skills, lesson development, incorporation with existing content, peer teaching. Four hours lab. Prerequisite: Level 2 pedagogy course. (1)

**BI 413. 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. Prerequisites: BI 283 with a minimum grade of C; CH 341. (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 404 or BI 413. (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 332 (3)

**BI 425. (Cross-listed as EV 425). GIS Planning for Emergency Management.** Introduces current and potential future roles of GIS in support of crisis (emergency) management activities at all geographic scales (local to international). Roles are considered at each of the four states of crisis management and selected focus topics are considered in detail. Pre- or Co-requisites: BI/EV 454; GO 445. (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 332. (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 Ecology and Conservation.** Integration of advanced ecological processes and conservation principles that affect marine community structure, function, and services. Prerequisite: 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 332. (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 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; one two-hour lab. Prerequisite: BI 332. (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. Prerequisite: BI 310. (3)

**BI 442. Immunology.** Introduction to modern immunology with an emphasis on the underlying biochemical mechanisms. Two lectures; one two-hour lab. Prerequisite: BI 310 or BS 240. (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 283 with a minimum grade of C. (3)

**BI 445. Microbial Physiology.** A detailed consideration of prokaryotic structure and function, encompassing morphology, metabolism, genetics and growth. Two lectures; one two-hour lab. Prerequisites: BI 310 or BS 240 (3)

**BI 447. (Cross-listed as EV 447) Fundamentals of Disaster/Emergency Management and Planning.** Pre-emergency fundamentals, critical in emergency management and disaster relief systems, including mitigation, planning and critical processes. Covers issues associated with emergency planning up to the point the emergency occurred and discussion of principles of sound response, coordinated relief and orderly recovery. Prerequisite: BI/EV 454. (3)

**BI 448. (Cross-listed as EV 448) Disaster/Emergency Planning and Response.** Differences between disasters and catastrophes are examined. Magnitude of impacts on planning and response are addressed through longitudinal examination of national and international disaster response and planning case studies covering the catastrophic level disasters. Prerequisite: BI/EV 447. (3)

**BI 449. (Cross-listed as EV 449) Vulnerability, Risk Reduction, and Critical Incident Management.** Insight into the tasks, roles, and responsibilities required to design and conduct exercises as part of a long-term, carefully constructed plan to help a community prepare for disasters. Students will use community needs assessments to develop the case for exercises, design an exercise, and outline an evaluation plan aimed at improving competence in all emergency functions. Prerequisite: BI/EV 448. (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 283 with a minimum grade of C; CH 341. (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: BI 310 or BO 310 or ZO 310. (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 137 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 310; CH 186; MA 134. (3)

**BI 456. (Cross-listed as EV 456) Fundamental Risk Communication in Emergency Management.** Focus on the art and science of risk communication within the context of natural disasters, disease outbreaks, and terrorism events. Addresses core principles of risk communication, special challenges associated with diverse audiences, and prepares students to create a crisis and emergency risk communication plan. Prerequisite: BI/EV 454. (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 prediction. Genomics, transcriptomics, proteomics. Prerequisite: BI 283 with a minimum grade of C. (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 283 with a minimum grade of C. (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: BI 283 with a minimum grade of C. (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. Prerequisite: BI 283 with a minimum grade of C. (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 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. Prerequisite: BI 283 with a minimum grade of C. (2)

**BI 543. Pathogenic Microbiology.** The study of the epidemiology, pathology, isolation, identification, prevention and treatment of clinically significant bacteria and viruses. Prerequisite: BI 310. (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 310. Co-requisite: BI 543. (1)

**BI 551/552/553. 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: Prerequisite: BI 283 with a minimum grade of C. (1-3)

**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 283 with a minimum grade of C. (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 283 with a minimum grade of C. (1-3)

**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)**

## **BIOLOGY GULF COAST RESEARCH LABORATORY**

Southeast Missouri State University is affiliated with the Gulf Coast Research Laboratory in Ocean Springs, Mississippi. This University of Southern Mississippi facility offers a variety of courses in their Summer Field Program. See an advisor for a complete list of courses available.

## **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 lecture; two two-hour labs. Prerequisites: BI 283 with a minimum grade of C; CH 341. (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 283 with a minimum grade of C. (3)

## **BOTANY (BO)**

**BO 310. Plant Biology.** Introductory survey of the structure, function, reproduction, and evolution of photosynthetic organisms, specifically cyanobacteria, "algae", and plants. Three lectures; one two-hour lab. Prerequisite: BI 283 with minimum grade of C. (4)

**BO 361. Systematic Botany.** Classification, identification and evolutionary relationships of flowering plants, with emphasis on the local flora. One lecture; two two-hour labs. Prerequisite: BO 310. (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 283 with a minimum grade of C. (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. Prerequisites: BI 283 with a minimum grade of C; CH 341. (3)

**BO 461. Native Aquatic Plants.** Classification, identification, and natural history of freshwater algae and aquatic vascular plants, with emphases on the local flora. One lecture; two two-hour labs. Prerequisite: BO 310 or permission of instructor. (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 283 with a minimum grade of C; BO 310 preferred. (3)

## **BUSINESS ADMINISTRATION (BA)**

**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 452. Professionalism.** Study and application of practical skills for workplace success; links self-management topics to career planning tools and professionalism basics. Prerequisite: completion of 75 hours. (1)

**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 491-493. Independent Study in Business Administration.** Study of an approved specific problem in business administration, preferably one growing out of previous coursework or from business experience. Course may be repeated for credit. (1-3)

**BA 560. Topics in International Business.** Provides a comprehensive theoretical overview of international business, along with an intensive overseas study tour of business and institutions. May be repeated for credit. Prerequisites: MG 301; MK 301; minimum grade of C in each course. (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 12 credit hours total. (1-12)

## **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 or equivalent with minimum grade of C; junior standing. (3)

**BL 563. Legal and Ethical Issues in Accounting.** A study of legal issues confronting business decision-makers, including negotiable instruments, debtor-creditor relationships, securities regulation and business organizations. Prerequisite: BL255 or equivalent with a minimum grade of C. (3)

**BL 573. Internship in Business Law.** A supervised learning and work experience in law which enhances traditional business law courses. Minimum of 150 contact hours required for 3 hours of credit. 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, UD) listings for description of:**

**UI 316. Contemporary Legal Studies. (3)**

## **CAREER LINKAGES (CL)**

**CL 001. Career Launch I.** Students complete a web-based career assessment designed to connect academic and career planning. Co-requisite: UI 100. (0)

**CL 002. Career Launch II.** Students complete four modules on career development and action planning, indicating proficiency by scoring at least 90% on 4, 20 item quizzes. Prerequisite: CL001. (0)

**CL 003. Career Launch III.** Students complete four modules on career development, indicating proficiency by scoring at 90% on 4, 20 item quizzes. Prerequisite: CL002. (0)

**CL 004. Career Launch IV.** Students complete four modules on career readiness and the job search process, indicating proficiency by scoring at 90% on 4, 20 item quizzes. 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 106 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 106 or equivalent. (University Studies course) (5)

**CH 182. Chemistry for the Allied Health Sciences.** Survey of the basic principles and practical applications of general, organic, and biological chemistry designed for allied health programs. Three lecture hours, two lab hours, and one recitation hour. Prerequisite: MA 106 or equivalent with minimum grade of C. (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 106 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 233. Introduction to Organic and Biological Chemistry.** A survey designed for non-chemistry majors or minors covering basic organic chemistry and introductory biochemistry. This course will not satisfy the requirement of CH234 in any program. Prerequisite: CH 180 or CH181 or consent of instructor. (3)

**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 306. Survey of Physical Chemistry.** Survey of

the basic concepts of physical chemistry including their application to understanding chemical and physical phenomena. Prerequisites: CH 271; MA 139; PH120 or PH 230. (3)

**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 311. (3)

**CH 340. Essentials of Organic Chemistry.** Survey of organic chemistry covering topics including: structure, isomerism, nomenclature, reaction mechanisms, reactions of major functional groups, and spectroscopy. Three lecture and four lab hours. Prerequisites: CH186 and CH187 with a minimum grade of C. (5)

**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 405. (Cross-listed as BI 405 and EP 405). Engineering in Science Education.** Engineering education for K-12. Pedagogies, resources, assessments of engineering concepts and skills, lesson development, incorporation with existing content, peer teaching. Four hours lab. Prerequisite: Level 2 pedagogy course. (1)

**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. 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 120. (Cross-listed as PY 120). The Child: Development from Conception through 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. (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. (3)

**CF 209. Introduction to Family Processes and Systems.** Introduction to family systems theory including basic concepts and principles, subsystem alignments, and change mechanisms within the family framework. (3)

**CF 215. 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. (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. (University Studies course) (3)

**CF 250. Family Childcare: Feasibility and Management.** Skill development for determining feasibility, management and operation of a profitable childcare business. (3)

**CF 280. Learning Theory and Application: Pre-school.** Planning and implementing developmentally appropriate care and education experiences for pre-school children. Includes supervised laboratory. (3)

**CF 285. 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 280. (3)

**CF 360. Family Life Education.** Understanding the design, development and implementation of family life education programs in a wide variety of settings. Prerequisite: CF 209. (3)

**CF 385. Stress, Violence, Trauma and Families.** An overview of the causes, signs, adaptations and impact of stress, violence and trauma on the family. Theoretical models application. Prerequisite: CF 209. (3)

**CF 402. Relationships of Commitment.** Comprehensive study of factors related to successful interactions of intimate partners. Emphasis on communication and problem-solving skills. Prerequisite: CF 102. (3)

**CF 405. Working with Special Populations and Diversity.** Professional supervised placement in centers serving young adults/adult special populations. Prerequisite: 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-240 hours. Focus: child observation, assessment, curricular/service plans, family involvement; practitioner career development. May receive up to 6 hours credit. (3-6)

**CF 485. Family Studies Senior Seminar.** Character and quality of human social conduct and the ability to critically examine ethical questions and issues. Prerequisite: CF 360.. (3)

**CF 495. Interagency Collaboration.** Interdisciplinary service practices for children, adolescents, and their families across a variety of systems or care. (3)

**CF 512. Family and Community Resources.** Resource identification, assessment, organization and referral techniques appropriate for professionals working with all ages and all families. (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 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)

## **CHILDHOOD EDUCATION (CE)**

**CE 330. Classroom Management and Environmental Organization.** Study of pro-active, research based strategies for guidance, classroom management, and environmental organization to develop

self-regulation and community of learners. Co-requisites: CE 364; CE 365; CE 366. Prerequisite: Admission to the Teacher Education Program. (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. Co-requisite: EL 340. (3)

**CE 364. Methods of Teaching Math, Science and Social Studies in Early Childhood and Elementary Education.** Research based strategies for implementation of integrated Math, Science, Social Studies curriculum in ECE/Elem. Ed, 37.5 hour field experience in PreK. Co-requisites: CE 330; CE 365; CE366. Prerequisite: Admission to the Teacher Education Program. (3)

**CE 365. Observation, Assessment and Data Analysis in Early Childhood and Elementary Education.** Study of observational assessment methods, standardized testing, and the application of data to design instruction to support development and learning. Co-requisites: CE 330; CE 364; CE 366. Prerequisites: Admission to the Teacher Education Program. (3)

**CE 366. Curriculum, Theory and Program Management in Early Childhood.** Foundational principles in ECE, including learning theories, developmentally appropriate principles, curriculum planning and program management, 37.5 hour field experience in PreK. Co-requisites: CE330; CE 364; CE 365. Prerequisites: Admission to the Teacher Education Program. (3)

**CE 370. Language Acquisition of the Young Child.** This course will study typical and atypical language acquisition, as related to overall child development, including the second language acquisition process. Prerequisites: Admission to the Teacher Education Program; CF 285; or permission of instructor. (3)

**CE 480. Early Childhood Education Student Teaching Field Experience.** Clinical experience requiring a demonstration of content knowledge, differentiated instruction, curriculum implementation, critical thinking, classroom management, communication, assessments, professionalism and collaboration. Co-requisite: EF 400. Prerequisites: Completion of all University Studies, content discipline, and professional education courses; Passing score on the required Content Exams; Current cleared FBI Background Check (through the Office of Field and Clinical Experiences). (12)

**CE 530. Foundation of Early Childhood Special Education.** In-depth study and examination of recent research findings affecting the education and development of young children with special needs. (3)

## **CHINESE (CN)**

**CN 100. Chinese Language & Culture I.** Acquisition and appreciation of the cultures of Chinese-speaking peoples and study of speaking, understanding, reading, and writing Chinese. (University Studies Course). (3)

**CN 102. Chinese II.** Continuation of CN 100. Expands on the grammar and vocabulary of CN 100. 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 385. (Cross-listed as GM 385). HDSLR Video Capture for Commercial Application.**

Introductory course on HDSLR (hybrid digital single lens reflex) pre- and post-production video and workflow. Emphasis on camera handling, audio, graphics, editing and location lighting theory. Students will be required to produce films, multimedia projects and still image extraction from video. 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 co-requisite: 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; Pre- or co-requisite: CD 411. (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 co-requisite: CD 426. (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 301. Foundations of Health Communication.** Study of how messages from interpersonal, organizational, cultural, and media sources affect health beliefs and behaviors. (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 Communication Studies; consent of department chairperson. (3)

**SC 496. Practicum in Communication Studies.** Practical work in Communication Studies on campus. Prerequisites: 75 hours 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. Prerequisite: GM 282. (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. (Cross-listed as PG 385). HDSLR Video Capture for Commercial Application.** Introductory course on HDSLR (hybrid digital single lens reflex) pre- and post-production video and workflow. Emphasis on camera handling, audio, graphics, editing and location lighting theory. Students will be required to produce films, multimedia projects and still image extraction from video. Prerequisite: PG 285. (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. Co-requisites: CS 495; UI 450; enrolled in final spring semester of degree program. (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. Prerequisite: ACT math sub-score of 22 or higher. (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, MA 137 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. Two hours lecture and two hours lab. 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 MA 138; 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. Two hours lecture and two hours lab. 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 403. Information Retrieval.** Principles, indexing methods, query processing, linguistic aspects, agents and AI approaches, relation to the World Wide Web, search engines, and algorithm in information retrieval. Prerequisite: CS 300 or IS 330 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 co-requisite: 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. Co-requisites: CS 003; UI 450; enrolled in final spring semester of degree program. (1)

**See University Studies (UI) listings for descriptions of:**

**IU 315. Ethics in the Cyber World (3)**

## **CONSTRUCTION MANAGEMENT (CM)**

**CM 126. Computer Aided Architectural Drafting.** Use of computer-aided design software, hardware and systems to solve problems in graphics. Using Auto-CAD to do: simple engineering drawings, basic floor plans, pictorials, dimensioning, elevations, and symbols will be covered. (3)

**CM 143. Construction Methods and Materials I.** Study of the materials, procedures, and processes utilized in the building construction industry with primary emphasis on residential construction. (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 II.** Print reading and the study of the materials, procedures and processes utilized in the building construction industry. Prerequisite: CM 143. (3)

**CM 260. Computation Methods and Tools for Construction Managers.** Study of computational methods and tools used by construction managers. Students will work with Excel, Word, manual calculation methods and computer programming techniques to further their understanding of how computers and calculations are used by construction managers. Prerequisites: CM 126; CM 320. (3)

**CM 310. Building Codes and Compliance.** Study of the requirements and applications of the International Code Council codes, including International Building Codes, International Residential Code and the International Mechanical Code, and efficiency codes. 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 443. Construction Equipment Management.** Student of basic principles, practices and techniques used in the construction industry for selecting and managing construction equipment. Prerequisites: CM 320; CM 343. (3)

## **CRIMINAL JUSTICE (CJ, 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 115. Introduction to Criminal Courts.** Organization and structure of state and federal criminal courts. Responsibilities of courtroom actors and their decisions will be addressed. 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. Prerequisite: CJ 100. (3)

**CJ 303. (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 320. (CJ 220) Criminal Law.** Examines substantive law, classification of offenses and matters that affect criminal responsibility. Prerequisite: junior standing. (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 320. (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 100; CJ 110; Physical Systems category. (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 125. (3)

**CJ 375. Victimology.** Study of the victim's role in the criminal event: process victimization; patterns, trends, theories; and victim-offender relationships. Prerequisites: CJ 100; CJ 110. (3)

**CJ 400. Crisis Management.** 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. Prerequisites: CJ 100; CJ 110. (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. Prerequisite: junior standing. (3)

**CJ 425. Planning and Research.** Role and scope of planning, research, and statistics in the criminal justice

field is examined. Prerequisites: CJ 100; EN 140; junior standing. (3)

**CJ 430. Policing in an Information Age.** Exploration of technological innovations and new approaches to police work in preparation for learning new technologies in fighting crime. Prerequisites: CJ 100; 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. Maybe repeated for up to 6 credits. Prerequisites: Junior standing; 15 hours CJ coursework; 2.75 cumulative GPA. (3 or 6 credits).

**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. Prerequisites: CJ 425; EN 140; junior standing. (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)

**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)**

**UI 460. Death Penalty History and Issues (3)**

## CYBERSECURITY (CY)

**CY 201. Introduction to Cybersecurity.** Introduction to cybersecurity. Information assurance terminology, issue, polices, 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. (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 245; 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; EP 310. (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. Prerequisite: CS 155. (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. Prerequisites: CS265 and CY201 or CY 501. (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. Prerequisites: CS265; CY201; TN275; or CY 501. (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 216. Pointe Technique I.** Beginning level technique focusing on the foundations and origins of pointe within the ballet genre. May be repeated for credit. Prerequisite: DA 211. (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. Prerequisite: Theatre & Dance major or consent of instructor. 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 227. World Dance I.** Beginning level technique training in non-western dance styles, e.g., African, Indian, Polynesian, Latin or Caribbean. May be repeated for credit. (2)

**DA 228. Hip Hop Dance I.** Studio course focusing on foundations and origins of hip-hop, street and free-style dance. 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 I.** Introduction to the professional career skills necessary to create new opportunities and succeed as an artist. Encompasses practices and methods for sustaining a successful career in dance, music, theatre, and the visual arts. (3)

**DA 280. Movement Analysis I.** Investigation and analysis of the key considerations for optimal dance training and performance. (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 301. Dance Musicianship.** Introduction to ways of understanding and utilizing music and sound as part of the process of making and interpreting dance. Prerequisite: DA 380. (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. May be repeated for credit. Prerequisites: DA 211; consent of instructor. (2)

**DA 316. Pointe Technique II.** Beginning level technique focusing on the foundations and origins of pointe within the ballet genre. May be repeated for credit. Prerequisite: DA 216. (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. May be repeated for credit. Prerequisites: DA 226; consent of instructor. (2)

**DA 327. World Dance II.** Studio course in intermediate level technique training in non-western dance styles, e.g., African, Indian, Polynesian, Latin or Caribbean. May be repeated for credit. Prerequisite: DA 227. (2)

**DA 328. Hip Hop Dance II.** Studio course in intermediate level hip-hop technique that will emphasize building on foundations and exploring current trends in hip-hop, street and freestyle dance. May be repeated for credit. Prerequisite: DA 228. (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 282. May be repeated for credit. (3)

**DA 391. Topics in Dance.** In-depth practice and research in various dance styles, choreographers, techniques, history, education, and other topics, including contemporary issues. Prerequisite: Consent of instructor. May be repeated for credit. (3)

**DA 396. Movement Analysis II.** Investigation of structural components and movement capabilities of the human body as it relates to dance technique and performance. Prerequisite: DA 280. (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: DA 280; DA 380; DA 311; DA 321; DA 326. 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. Prerequisites: DA 282; DA 380; 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. Prerequisite: DA 290. (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 497. Choreography III.** Advanced exploration of the creative process focusing on refinement of choreographic techniques, and critique and analysis of developed dance works. (3)

**DA 498. (Cross-listed as TH 498). BFA Project.** Preparation, presentation, and assessment of a major dance project. Prerequisite: Consent of department chairperson. (2)

**DA 499. (Cross-listed as TH 499). Internship.** Experiential involvement with an outside professional dance company or group of dance professionals. Credit/no credit. Prerequisite: Consent of department chairperson. (2)

**See University Studies (UD) listings for descriptions of:**

**UI 384. History of the Musical (3)**

**UI 433. Aesthetics of Movement. (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 342. Sports Economics.** Investigation of questions relating to the contribution of professional and recreational sports to social welfare. 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 micro-economic 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 452. Econometrics I.** Introduction to quantitative analysis of economic behavior. Prerequisites: MA 134; EC 101 or EC 215 or EC 225; any college-level statistics course. (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. Prerequisite: EC 410 or EC 420 with a minimum grade of C. (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)

**EC 585. Healthcare Economics.** Analysis of the markets for healthcare and health insurance from the perspective of an economist. Prerequisite: EC 215. (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 280. Introduction to Education as a Profession.** Introduces the education profession, including diversity, standards-based curriculum, learning theories, and instructional technology; includes a 37.5 hours field

experience. Pre- or co-requisites: PY/CF 120 or PY 222; current cleared FBI background check. (3)

**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)

## EDUCATION ADMINISTRATION (EA)

**EA 427. President's Leadership Academy.** Course is intended to provide further leadership development after completion of Emerging Leaders. (1)

**EA 507. School and Campus Safety.** Overview of school safety issues impacting public and private P-12 institutions. (3)

## EDUCATIONAL FOUNDATIONS (EF)

**EF 400. Seminar in Educational Issues for Student Teachers.** A seminar connecting student teaching and current educational issues in American schooling, requiring completion of MOPTA. Prerequisite: Secondary Blocks III. Co-requisites: CE 480 or EL 480 or EX 480 or SE 465. (1)

## 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 137. (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 160; 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 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 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 micro-controller 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 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)

**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 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 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. Diversity in American Schools.** Exploration of race, ethnicity, and gender issues in schooling today. (3) (University Studies Course)

**EL 300. Assistive and Instructional Technology in a Universal Design for Learning Environment.** Advanced study of instructional technology for teacher candidates into the P-12 curriculum to tailor instruction to individual students' needs. Prerequisite: Admission to Teacher Education Program or instructor permission. (3)

**EL 310. Pedagogy: Elementary Instructional Models/Strategies.** Develops pedagogical knowledge of instructional models and teaching strategies integration into instruction at the elementary school level. Prerequisite: Admission to the Teacher Education Program. (3)

**EL 314. Literacy Field Experience.** Field experience for the implementation of Literacy courses concepts. Co-requisites: EL 316; EL 317. Prerequisites: Admission to Teacher Education program. (3)

**EL 316. Emergent and Early Literacy Instruction.** This course develops knowledge and skills in emergent and early literacy instruction. Co-requisites: EL 314; EL 317. Prerequisites: Admission to Teacher Education program. (3)

**EL 317. Intermediate and Middle School Literacy Instruction.** This course develops knowledge and skills in intermediate and middle school literacy instruction. Co-requisites: EL 314; EL 316. Prerequisites: Admission to Teacher Education program. (3)

**EL 340. Classroom Management, Climate, and Learning.** This course develops knowledge and skills in supporting a positive classroom climate and social emotional learning for children and adolescents. Co-requisites: EL 314; EL 316; EL 317. Prerequisite: Admission to Teacher Education Program. (3)

**EL 350. Content Field Experience.** This course provides field experience for the math, science, health and social studies teaching methods course. Co-requisite: EL 360; EL 355. Prerequisite: EL 314. (3)

**EL 354. Meeting the Needs of the Struggling Reader.** Administering, analyzing, and interpreting literacy assessments to plan and implement appropriate literacy instruction to benefit the struggling reader. Co-requisite: EL 410. Prerequisites: EL 316; EL 317; EL 355. (3)

**EL 355. Content Area Literacy.** This course provides an overview of teaching literacy skills (reading, writing) in content areas leading to enhanced student outcomes. Prerequisites: EL314; EL 316; EL 317. (3)

**EL 360. Integrated Math, Science, Social Sciences and Health Instruction.** This course covers

elementary mathematics, science, health, and social studies instructional methods. Some concepts will be integrated. Prerequisites: Content courses in math, science, health and social studies; EL 316; EL 317. Co-requisites: EL 350; EL 355 (3)

**EL 410. Differentiated Instruction.** This course provides teacher candidates with skills to increase students' success in the classroom that meets diverse and individual needs. Co-requisite: EL 430; EL354. Prerequisites: EL 316; EL 317; EL 360 or CE 364; EX 390. (3)

**EL 420. Assessment and Data Analysis.** This course is a practical application of the use of data to design instruction and improve learning. Prerequisites: EL 316; EL 317; EL 360. Co-requisites: EL 430 or EX 309; EL354. (3)

**EL 430. Advanced Field Experience.** Field experience for implementing advanced competencies: differentiation, using assessment data, addressing diversity, developing collaborations, managing classrooms and professional development. Prerequisites: EL 314; EL 350 or CE 364. (3)

**EL 480. Elementary Education Student Teaching Field Experience.** Clinical experience requiring a demonstration of content knowledge, differentiated instruction, curriculum implementation, critical thinking, classroom management, communication, assessments, professionalism and collaboration. Co-requisite: EF 400. Prerequisites: Completion of all University Studies, content discipline, and professional education courses; Passing score on the Elementary Education Content Exam; Current cleared FBI Background Check (through the Office of Field and Clinical Experiences). (12)

## **ENGINEERING PHYSICS (EP)**

**EP 003. Engineering Physics Assessment.** Required of all Engineering Physics majors. Students must take the Fundamentals of Engineering (FE) Exam. Students should take the FE Exam during their last semester taking engineering courses. Credit/No Credit. Prerequisite: EP480 (0)

**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-requisite: MA 137. (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 with a minimum grade of C; MA 244. (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. Pre or Co-requisites: MA 145 with a minimum grade of C; PH 230 with a minimum grade of C. (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 with a minimum grade of C. (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 with a minimum grade of C. (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 244. (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 co-requisite: 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 378. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. May be repeated once for credit. (1)

**EP 379. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics. May be repeated once for credit. (2)

**EP 380. Engineering Design and Research.** An in-depth introduction to the engineering design and research process. Two-hour lab. Prerequisite: UI330. (1)

**EP 400. Bioengineering Laboratory: Flow Cytometry.** Principles of flow cytometer, principles of fluorescence, data analysis, common protocols, cell viability and reactive oxygen species (ROS) assay in presence of smart nanostructures, and comparative analysis with live dead assay. One lecture; one hour lab. (2)

**EP 405. (Cross-listed as BI 405 and CH405). Engineering in Science Education.** Engineering education for K-12. Pedagogies, resources, assessments of engineering concepts and skills, lesson development, incorporation with existing content, peer teaching. Four hours lab. Prerequisite: Level 2 pedagogy course. (1)

**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 244. (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 244; 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)

**EP 495. Readings in Nano-Bioengineering.** Understanding of nano-bioengineering research. May be repeated once for credit. (1)

**EP 578. Interdisciplinary Research.** Original research for students of superior ability in major other than engineering physics, physics, or physics education. (1)

**EP 579. Interdisciplinary Research.** Original research for students of superior ability in major other than engineering physics, physics, or physics education. (2)

**See University Studies (UI) listings for descriptions of:**

**IU 317. System Theory For Everyone. (3)**

**UI 450. Capstone Experience. (3)**

## ENGLISH (EN)

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**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 individualized instruction 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 190. Writing and the Environment.** Focus on effective written expression, with particular emphasis on environmental issues; emphasis is upon critical thinking and the research paper. Students must complete a service

learning project. (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 302. Small Press Publishing.** Advanced study in editorial and mechanical aspects of producing a literary or general interest magazine. Prerequisite: Consent of instructor. (3)

**EN 303. Content Copywriting.** Focus on the art of effective, creative copywriting with an eye towards describing content and products. (3)

**EN 305. Technical Writing.** Introductory study of rhetorical and design techniques for technical writing. (3)

**EN 307. Writing for New Media.** Study of new media theory and rhetorical and design techniques for new media composers. (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. Techniques and Materials for Teaching English Language Learners.** Focuses on teaching strategies, materials, and instruction to promote language and academic development of English language learners. (3)

**EN 325. Topics in Writing.** Directed study and writing workshop of special topics in writing. Pre- or co-requisite: EN 140. (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.** Linguistic analysis of 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 texts. (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)

**EN 572. Creative Non-Fiction Essay.** Study of the development of the personal essay form, intensive reading of works by contemporary American and British essayists and composition of original personal essays. Prerequisite: EN 140; any 200-level literature course except LI 243. (3)

See University Studies (UI) listings for descriptions of:

**UI 500. History of the English Language.** (3)

**UI 501. Principles of Language.** (3)

## **ENTREPRENEURSHIP (ER)**

**ER 361. (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)

**ER 473. Internship in Entrepreneurship.** Internship experience in entrepreneurship that focuses on application of entrepreneurial principles, concepts and skill development. Pre- or co-requisites: 75 or more hours completed; minimum cumulative GPA of 2.5; must have completed a minimum of 9 hours of entrepreneurship courses with a minimum GPA of 2.5, unless waived by department chair. Course may be repeated for credit. (3)

**ER 521. (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)

**ER 531. (BA 531). Innovation.** Investigation of imagination, creativity and innovation in the context of one's intrapersonal, interpersonal, social and organizational environment. Prerequisite: Junior standing. (3)

**ER 551. (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: ER 361 with a minimum grade of C. (3)

**ER 561. (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: ER 361 with a minimum grade of C. (3)

**ER 581. (BA 581). Entrepreneurship Practicum: Venture Creation.** Practicum which serves as a platform to systematically build a new venture individually or in teams. May be repeated for up to 6 credit hours. Prerequisites: ER 361 with a minimum grade of C; ER 551 with a minimum grade of C. (3)

See University Studies (UI) listings for descriptions of:

**IU 305. Entrepreneurship.** (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. Prerequisites: BI 163 with minimum grade of C or BS 105; CH 185 or PH 120. (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 425. (Cross-listed as BI 425). GIS Planning for Emergency Management.** Introduces the current and potential future roles of GIS in support of crisis management activities at all geographic scales. Roles are

considered at each of the four states of crisis management and selected focus topics are considered in detail. (3)

**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. Prerequisite: BI 163 with minimum grade of C. (3)

**EV 447. (Cross-listed as BI 447). Fundamentals of Disaster/Emergency Management and Planning.** Pre-emergency fundamentals critical in emergency management and disaster relief systems including mitigation, planning and critical processes. Prerequisite: BI/EV 454. (3)

**EV 448. (Cross-listed as BI 448). Disaster/Emergency Planning and Response.** Differences between disasters and catastrophes. Address issues of the magnitude of impacts on planning and response through longitudinal examination of national and international disaster response and planning case studies covering catastrophic level disasters. Prerequisites: BI/EV 447; BI/EV 454. (3)

**EV 449. (Cross-listed as BI 449). Vulnerability, Risk Reduction, and Critical Incident Management.** Provides insight into tasks, roles, and responsibilities required to design and conduct exercises as part of a long-term, carefully constructed plan to help a community prepare for disasters. Community needs assessments are used to develop the case for exercises, design an exercise, and outline an evaluation plan aimed at improving competence in all emergency functions. Prerequisites: BI/EV 448; BI/EV 454. (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; Completion of Living Systems category (BI or BS prefix course). (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 or MA 137 or MA 140; completion of Living Systems (BI or BS prefix course) category of University Studies. (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; CH 186; MA 134. (3)

**EV 456. (Cross-listed as BI 456). Fundamental Risk Communication in Emergency Management.** Focus on the art and science of risk communication within the context of natural disasters, disease outbreaks, and terrorism events. Addresses core principles of risk communication, special challenges associated with diverse audiences, and prepares students to create a crisis and emergency risk communication plan. Prerequisite: BI/EV 454. (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: BI 163 with minimum grade of C; CH 185. (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 for credit. Student are limited to 6 hours of research during their program. 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; or consent of instructor. (3)

See University Studies (UD) 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 Children with Exceptionalities.** Emphasizing typical and atypical language acquisition and instructional strategies/technologies for students with Exceptional Learning Needs. Co-requisites: EX 304. Prerequisites: Admission into the Teacher Education Program; EX 311 or EX 390. (3)

**EX 304. Classroom and Behavior Management.** Theoretical background and rationale for managing student behavior. Emphasizes the elements of primary, secondary and tertiary interventions. Co-requisite: EX 302. Prerequisites: Admission into the Teacher Education Program; EX 311 or EX 390. (3)

**EX 305. Content Area Teaching, Learning and Transitioning for Secondary Students with Exceptionalities.** Addressing the instructional techniques and strategies related to secondary science, and social sciences, and assistive technology with application to transition planning. Co-requisites: EX 317; EX 373. Prerequisites: Admission to the Teacher Education Program; EX 311. (3)

**EX 309. Advanced Field Experience in Education of Children with Exceptionalities.** Integration of appropriately designed field experiences commensurate with Education of Children with Exceptionalities Teacher Preparation Program coursework. Prerequisites: Admission to the Teacher Education Program; EX 302; EX 304; EX 311; EX 312; EX 317; EX 373. Co-requisite: EX 507.(3)

**EX 311. Introduction to Children with Exceptionalities.** Characteristics/psychology/education of children with exceptionalities including an overview of cross-categorical special education. Prerequisite: Exceptional Child Education major. (3)

**EX 312. Diagnosis and Remediation of Mathematics Difficulties.** Provides knowledge in use of diagnostic/prescriptive approach involving research-supported teaching/learning strategies when providing mathematics instruction to students with mild/moderate disabilities. Prerequisites: Admission to the Teacher Education Program; EX 311 or EX 390. (3)

**EX 317. Assessment and Techniques of Teaching Children with Exceptionalities.** Introduction/application of assessment/evaluation processes and application of information in the development of Individualized

Education Programs. Prerequisites: Admission to the Teacher Education Program; EX 311. (3)

**EX 373. Strategies and Techniques with a Learning Theory Base for Teaching Mild/Moderate Cross-Categorical.** Strategies/techniques for teaching students with mild/moderate disabilities K-12 cross-categorical settings emphasizing educational learning theory based academic, perceptual, and cognitive skills. Prerequisites: Admission to the Teacher Education Program; EX 302; EX 304; EX 311. Co-requisite: EX 305. (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. Prerequisite: 60 credit hours or permission of instructor. (3)

**EX 480. Exceptional Child Education Student Teaching Field Experience.** Clinical experience requiring a demonstration of content knowledge, differentiated instruction, curriculum implementation, critical thinking, classroom management, communication, assessments, professionalism and collaboration. Co-requisite: EF400. Prerequisites: Completion of all University Studies, content discipline, and professional education courses; Passing score on the required content exam; Current cleared FBI Background Check (through the Office of Field and Clinical Experiences). (12)

**EX 507. Family and Child with Exceptionalities.** Emphasizes the teacher of children with exceptionalities partnering with families. Stresses collaborating with families, and strategies for accessing community resources. Prerequisites: Admission to Teacher Education program; EX 311. (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. Communication Interventions and Strategies for Individuals with Autism Spectrum Disorder.** Addresses the process of language acquisition and investigates research-based strategies for improving communication in individuals with disabilities. Co- or prerequisite: EX 555 or permission of instructor. (3)

**EX 557. Behavior Management and Intervention for Individuals with Autism Spectrum Disorder.** Provides an analysis of the principles of behavior management and interventions for individuals with developmental and sensory disabilities. Co- or 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. Co- or 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). Co- or 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 Operations and Supervision.** Facilities management responsibilities involving daily management of corporate needs based on the core competencies such as IFMA (International Facility Management Association), ASHE (American Society for Healthcare Engineering), and PRSM (Professional Retail Store Maintenance Association). (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 Automation and Technology.** Discussion of technology used in facilities management operations. Topics include building automation systems, controls, and current technology used in the different processes in facility management. Pre- or Co-requisite: FM 504. (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 104. Beyond Project Runway.** Interdisciplinary exploration and application of elements of fashion. Examines fashion fundamentals including history, economics, international scope, sustainability and trends. (University Studies course) (3)

**FA 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 114. Visual Merchandising.** Study of the components involved in the art of visual presentation. Students will participate in store display and technique within the community. (3)

**FA 120. Clothing Construction.** Basic clothing construction techniques, material selection and skills. Students will complete construction of two garments using various techniques. (3)

**FA 121. Intermediate Clothing Construction.** Intermediate clothing construction techniques, material selection and skills. Students will complete construction of two garments using various techniques. Prerequisite: FA 120. (3)

**FA 207. Textiles.** Study of natural and manufactured fibers, yarns, fabric, finishing, and coloring of textile products. (3)

**FA 250. History of Costume I.** Overview of factors which affect form and function of human apparel from ancient times to 1920. (3)

**FA 251. History of Costume II.** Overview of factors which affect form and function of human apparel from 1920 to the present. Prerequisite: FA 250. (3)

**FA 300. Professional Image and Behavior.** Analysis of business etiquette, dress, and common procedures designed to facilitate smooth transition into the business world. (3)

**FA 310. Fashion Forecasting.** Explore and apply various forecast research methods in preparation for developing, planning, purchasing, or merchandising apparel lines and collections. Prerequisites: FA 110. (3)

**FA 315. Retail Buying.** Overview of the merchandising principles and mathematics needed for retail planning, buying, and selling. (3)

**FA 350. Apparel Aesthetics.** Visual fine arts principles as applied to the design and selection of mass produced apparel. (3)

**FA 421. Retail Strategy.** Investigation of retailing concepts and strategies in the apparel and related product industries.. (3)

**FA 450. Global Fashion Economics.** The impact of current social, economic, technological and cultural trends on the merchandising of fashion products. (3)

**FA 480. Fashion Merchandising Practicum.** Directed experiential learning in planning, buying, and operation of retail merchandising in campus/community retail setting. Prerequisites: Junior standing with 15 hours in Fashion Merchandising; approval of advisor. (3)

**FA 518. Social Psychological Aspects of Clothing.** Social, psychological, economic and cultural factors related to clothing. (3)

**FA 520. Survey of National Markets – New York.** Supervised visits to components of the fashion world and to auxiliary fields located in the industry center – New York. (3)

**FA 521. Survey International Fashion Markets.** Supervised visits to all components of the fashion industry and its auxiliary fields located in international industry centers. (3)

**FA 530. Fashion Industry Internship.** Career-related work experience in the fashion industry providing professional experience in the student's major area of study. (6)

## 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; MA 223 or 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; MA 223 or 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 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 240. Introduction to Food Science.** Introduction to the science and preparation of food in the context of diverse human and environmental conditions. (3)

**FN 255. Nutrition I.** Foundations of human nutrition based on the principles of chemistry and physiology. Prerequisites: CH 180 or CH 181 or CH 185; FN 235; or consent of instructor. (3)

**FN 310. Food and Culture.** Influence of culture, tradition, and health beliefs on the food habits, nutrition and health of diverse groups of people. Pre- or co-requisite: FN 235. (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; FN 240 or HM 205; HL 303 or PY 271; or consent of instructor. (4)

**FN 330. Financial Management and Cost Control in Dietetics.** Principles and procedures of financial management and cost control for dietitians in healthcare and institutional settings. Prerequisites: FN 235; FN 240; MA 134. (3)

**FN 340. Professional Dietetic Seminar.** Study of career opportunities in dietetics focusing on the scope of dietetics practice, professional ethics, laws and regulation. Prerequisite: FN 255. (1)

**FN 355. Lifespan Nutrition.** A study of nutrition principles related to various stages in the life cycle. Prerequisite: FN 255. (3)

**FN 360. Food Safety and Sanitation.** Food safety issues related to purchasing, handling, storage, preparation and service. Earns Food Manager Certification after passing NRA exam. (1)

**FN 370. Nutrition Assessment.** Application of methodologies assessing food and nutrition behaviors, and the nutritional status of individual and groups in various settings. Prerequisites: BS 114; FN 255; FN 340. (2)

**FN 401. Sports Nutrition.** Theory and application related to nutrition for athletic performance. Application of sports nutrition concepts for recreational and elite athletes. Prerequisites: BS 114; FN 255; or consent of instructor. (3)

**FN 415. Principles and Practices of Foodservice for the Dietitian.** Organization and leadership strategies for dietitians in healthcare and institutional settings. Theory, management and application of systems for food and nutrition services. Prerequisite: FN 240 or HM 205. (3)

**FN 450. Food Service Operations.** In-depth study and application of community and clinical food service operations for the nutrition professional. Prerequisites: FN 240 or HM 205; FN 415. FN415 may be taken concurrently with permission of the instructor. (4)

**FN 502. Nutrition II.** In-depth study of metabolism as related to human nutrition. Prerequisites: BS 114; FN 355; or consent of instructor. (3)

**FN 503. Medical Nutrition Therapy I.** In-depth study of pathophysiology and the principles of medical nutrition therapy for various disease states. Prerequisites: CH 234; FN 355; FN 370; or consent of instructor. (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. Prerequisite: FN 503. (4)

**FN 505. Senior Dietetics Seminar.** Preparation for assuming leadership positions in dietetics. Capstone course for seniors applying to dietetics internships. Prerequisites: Admission to Didactic Program in Dietetics; senior standing. (1)

**FN 520. Nutrition and Aging.** Study of nutrition needs of the mature adult population with consideration of physiological, psychological and socioeconomic changes associated with aging. Prerequisite: FN 255. (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: FN355; FN 370. (3)

**FN 530. Pathophysiology Implications for Nutrition and Exercise Science.** In-depth examination of pathophysiology and the relationship to nutrition and exercise. Prerequisites: BS 114; HL 331; or consent of instructor.

**FN 535. Emergency and Population Nutrition.** Nutritional issues in emergencies and in global populations explored in-depth, including assessment, prevention and relief. Prerequisites: FN 235; junior standing or consent of the instructor

**FN 540. Community Nutrition.** Fundamentals of community nutrition programs; assessing and meeting community needs at the local, state and federal levels. Prerequisites: 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 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)

**FS 553. Crime Laboratory III: Introductory Analysis of Pattern Evidence.** One-semester introduction to the chemical and physical techniques used in the collection, preservation, documentation, analysis, and interpretation of pattern evidence. Prerequisite: CJ 350 or consent of instructor. (3)

## FRENCH (FR)

**FR 010. Language Proficiency Exam: Midpoint.** Assessment of the student's proficiency level midway through their language program. Co- or prerequisite: 18 hours of French. (0)

**FR 020. Language Proficiency Exam: Exit.** Assessment of the student's proficiency level upon completion of the language program. Co- or Prerequisite: 36 hours of French. (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 or concurrent enrollment with semester study abroad. 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 or participating in departmentally-sponsored exchange; cumulative 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)

## **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 180. Cultural Geography.**

Study of the inter-relationship 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 010. Language Proficiency Exam: Midpoint.** Assessment of the student's proficiency level midway through their language program. Co- or prerequisite: 18 hours of German. (0)

**GN 020. Language Proficiency Exam: Exit.** Assessment of the student's proficiency level upon completion of the language program. Co- or prerequisite: 36 hours of German. (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 or concurrent enrollment with semester study abroad. 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 or participating in departmentally-sponsored exchange; cumulative 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 105. Introduction to Allied Health Professions.** An overview of several allied health professions with an emphasis on the academic preparation needed to enter these professions. (2)

**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 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; TX 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 321; TX 282. (3)

**HL 280. Basic Skills in Athletic Training.** Basic preventative techniques and treatments including taping, bracing, wrapping, universal precautions, and wound care for the athletic patient. Prerequisite: Health Management major or consent of instructor. (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, TX 281; Co-requisite: TX 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 321; TX 282; Co-requisite: TX 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; TX 383. (3)

**HL 324. Group Exercise Instruction.** The methods and techniques used to teach a wide variety of group exercise classes. Pre- or co-requisites: HL 331. (3)

**HL 331/031. Exercise Physiology.** Physiological control of the human body during acute exercise, and adaptations to regular exercise. Emphasis on relationships among health, physical fitness, and exercise. Three hours lecture (HL 331), two hours lab (HL 031) must be taken concurrently. Prerequisites: BS 114/014; CH 180 or CH 181 or CH185; MA 134. Prerequisite or Co-requisite: HL 231; all with a grade of C or higher. (4)

**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. (3)

**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 with a grade of C or higher. (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; TX 383; Co-requisite: TX 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 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 major courses and additional requirements with a C or higher; completion of all degree requirements; 2.50 GPA in the major; 2.50 cumulative GPA; faculty advisor's approval. (12)

**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)

**HL 550. Exercise Programming for Special Populations.** Exploration of exercise testing and exercise programming considerations for special populations. (3)

**See University Studies (UD) listings for descriptions of:**

**UI 354. Lifestyle Enhancement. (3)**

**UI 412. American Health Care Systems and Issues. (3)**

## **HEALTHCARE MANAGEMENT (HA)**

**HA 300. Introduction to Healthcare Management.** Provides an overview of the organization and governance of healthcare organizations, including the role of management, physicians, nurses, clinicians, and support staff in healthcare operations. (3)

**HA 471-473. Internship in Healthcare.** Planned work/study designed to integrate cooperative practical real-world experience with academic preparation in the field of healthcare management. Credit/no credit. (1-3)

**HA 491-493. Independent Study in Healthcare.** Study of an approved specific problem in healthcare, preferably one growing out of previous coursework or from practical experience. (1-3)

**HA 510. Healthcare Operations.** Focus on the practical and analytical tools required to deal with operational issues in healthcare organizations. Prerequisites: HA 300 or MG 301 with a minimum grade of C; or permission of department chairperson. (3)

**HA 520. Introduction to Healthcare Quality.** Foundation of the quality improvement issues, including the history and drivers of quality, facing individuals in the healthcare setting. Prerequisites: HA 300 or MG 301 with a minimum grade of C; or permission of department chairperson. (3)

**HA 525. Advanced Healthcare Quality.** Focus on the implementation of quality initiatives in healthcare organizations based on organizational structure, new and existing processes, and desired outcomes. Prerequisite: HA 520 with minimum grade of C; or permission of department chair. (3)

**HA 530. Introduction to Patient Safety.** Introduction to relevant theory and practice in the area of patient safety, including the role of management, physicians,

nurses, clinicians, and support staff in patient safety initiatives. Prerequisite: HA 300 or MG 301 with minimum grade of C; or permission of department chair. (3)

**HA 535. Advanced Patient Safety.** Focus on implementation of patient safety initiatives through leadership, developing a culture of safety, and the legal and ethical concerns in the context of patient safety. Prerequisite: HA 530 with a minimum grade of C; or permission of department chair. (3)

**HA 540. Healthcare Informatics.** Introduction to information technology as it is applied to healthcare and health related organizations. Examination of how information is captured, converted and stored in machine readable form and used in the various facets of the healthcare system; the impact of Electronic Medical Record (EMR) and mobile computing on the healthcare system. Prerequisites: MI 375 with a minimum grade of C; HA 300 or MG 301 with a minimum grade of C; or permission of department chair. (3)

**HA 545. Healthcare Database Systems.** Study of the design of databases used in healthcare. Types of database architecture, normalization techniques, file and access techniques, query, and update languages, data integrity, use of health record systems, and applications of databases to support the healthcare system. Prerequisites: MI 375 with a minimum grade of C; HA 300 or MG 301 with a minimum grade of C. (3)

**HA 580. Management of Health Systems: Strategy and Quality.** Introduction to comparative health systems; impact on strategy and quality. Prerequisite: HA 300 or MG 301 with a minimum grade of C; or consent of department chair. (3)

**HA 581. Health Administration Policy.** Introduction to policies impacting health administration. Prerequisite: HA 300 or MG 301 with a minimum grade of C; or consent of department chair. (3)

**HA 582. Health Care Budgeting and Reimbursement.** Introduction to health care budgeting and reimbursement and the impact of resource allocation on health care delivery. Prerequisite: HA 300 or MG 301 with a minimum grade of C; or consent of department chair. (3)

**HA 585. Marketing for Health Services Organizations.** Introduction to strategic marketing in healthcare. Concepts and tactics marketers use to develop cutting-edge value propositions for key target audiences in a range of healthcare settings. Prerequisite: HA 300 or MG 301 with a minimum grade of C; or consent of department chair. (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. Nineteenth 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)

**EH 550. Castles in Context.** Study of medieval castles and related settlement forms and their contemporary and modern-day social, landscape, and cultural contexts. (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 380. Practicum in Teaching History.** Applied and mentored experience in teaching history at the college level. (0)

**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 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 356. Progressive America.** Economic, diplomatic, political, and cultural developments from 1877 to 1920. (3)

**US 360. Women in American History.** Study of American history from colonial times to present, from perspective of women. (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 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 450. America as a World Power.** History of the United States as a global economic, diplomatic, military, and cultural power from the 1890's to the present.(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 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 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 305. 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 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 (UD) 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 400. The Holocaust.** (3)

**UI 418. European Mind.** (3)

**UI 446. Civil Rights Movement.** (3)

**UI 457. African-Americans During a Time of Slavery.** (3)

**UI 508. African Americans During the Era of Segregation and Jim Crow.** (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. (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 co-requisite: HO 110. (3)

**HO 215. Practical Horticulture Experiences.** Hands-on experiences in basic outdoor and indoor plant care and culture, including experience with associated tools and machinery. Pre- or co-requisite: HO 110. (1)

**HO 225. Identification and Use of Deciduous Plants.** Identification, nomenclature, classification, cultural requirements, and landscape uses of deciduous trees, shrubs, and vines. Three lectures; two-hour lab. (2)

**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 235. Identification and Use of Evergreen Plants.** Identification, nomenclature, classification, cultural requirements, and landscape uses of evergreen trees, shrubs, vines and herbaceous plants. Three lectures; two-hour lab. (2)

**HO 245. Identification and Use of Interiorscape and Tropical Plants.** Identification, nomenclature, classification, cultural requirements of trees, shrubs, vines and herbaceous plants used in interiorscapes or tropical landscapes. Three lectures two-hour lab. (2)

**HO 255. Identification and Use of Annual and Perennial Plants.** Identification, nomenclature, classification, cultural requirements, and landscape uses of herbaceous annual and perennial plants. Three lectures; two-hour lab. (2)

**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. Strategic 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 332. Computer Aided Landscape Design.** Focus on learning to use industry standard computer software to develop landscape design projects. One lecture; one three-hour lab. Pre- or co-requisite: HO 330. (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. Advanced 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. Advanced 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 310 or HO 110. (3)

**HO 431. Landscape Installation and Maintenance.** Explores establishing and maintaining landscapes. Two lectures; one two-hour lab. Prerequisite: 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 Technologies.**

Explores hydroponics, tissue culture, nontraditional plant breeding, plasticulture, and advanced sports turf applications in horticultural systems. Two lectures; two-hour lab. Prerequisites: HO 110; HO 230; HO 342 or HO 350. (3)

**HO 470. Strategic Urban Horticulture.** Intersection of horticultural food production and landscape design creates an economic foundation for urban renewal. (3)

## **HOSPITALITY MANAGEMENT (HM)**

**HM 150. Introduction to Hospitality Management.** Overview of the lodging, foodservice, events, travel and attractions industry. Introduction to the management positions in the hospitality industry. (3)

**HM 205. Basic Culinary Techniques.** Basic principles in the culinary arts including food selection, recipe utilization, and food production in a lecture and laboratory setting. (3)

**HM 225. Advanced Selection and Preparation of Foods.** Advanced principles in the culinary arts including food selection, recipe utilization and modification, and food production. Two hours lecture and two hour lab. Prerequisites: HM 150 with a minimum grade of C; HM 205 with a minimum grade of C. (3)

**HM 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. (3)

**HM 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: HM 150 with a minimum grade of C. (3)

**HM 304. Food, Beverage and Labor Cost Controls.** Principles and procedures in food and beverage procurement and labor control systems. Prerequisite: HM 205 with a minimum grade of C. (3)

**HM 325. Hospitality Law.** Legal ramifications of operating a hospitality organization emphasizing loss prevention, regulatory agencies, the employer's responsibility to guests and employees. Prerequisite: HM 270 with a minimum grade of C. (3)

**HM 350. Advanced Culinary Practices.** Advanced principles of culinary arts and practice including culinary principles, standards of quality, preparation technique, methods and processes. Prerequisite: HM 304 with a minimum grade of C. (3)

**HM 390. Hospitality Sales and Marketing.** The importance of a formalized sales and marketing program in successful hotel, restaurant and tourism operations. Prerequisite: HM270 with a minimum grade of C. (3)

**HM 406. Hospitality Strategic Management.** Study of the strategic management process in hospitality organizations with emphasis on various perspectives and approaches to strategic management and globalization. Pre- or co-requisite: HM 390 with a minimum grade of C. (3)

**HM 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: AC 221; HM 350 with a minimum grade of C. (4)

**HM 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)

**HM 491-493. Independent Study in Hospitality Management.** Study of an approved specific problem in hospitality management, preferably one growing out of previous coursework or from business experience. Prerequisites: 74 credit hours; consent of department chairperson/faculty. (1-3)

## **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)

**HE 540. Foundations of Family and Consumer Sciences.** Focus on mission, vision, and history; roles in improving quality of life for individuals and families; and career opportunities. (3)

**See University Studies (UI) listings for description of:**

**UI 343. Transcultural Experience. (3)**

## **HUMAN SERVICES (HS)**

**HS 301. Foundations of Child Maltreatment and Advocacy.** Introduction to issues pertaining to child maltreatment and advocacy. Emphasis on legal framework, cultural perspectives, and social system responses. (3)

**HS 401. Child Advocacy II-Professional and System Responses.** Systems approach to professional responsiveness to allegations of child maltreatment. Emphasis on child crime identification, investigation, and prosecution. Prerequisite: HS301 with minimum grade of C or consent of instructor. (3)

**HS 402. Child Advocacy III-Responding to the Survivor of Child Abuse.** Multidisciplinary perspective to child maltreatment prevention, advocacy, and treatment. Emphasis on developing greater competencies in professional intervention strategies. Pre- or co-requisite: HS 401 with minimum grade of C.

## **INDUSTRIAL AND SYSTEMS ENGINEERING (EG)**

**EG 201. Systems Engineering.** Introduces students to the systems engineering process used to create multidisciplinary solutions to complex problems. Prerequisite: MN 220. (1)

**EG 492. Modeling and Simulation.** Development of modeling and simulation concepts by applying computing resources in the analysis and optimization of operational and behavioral characteristics of complex systems/products. Pre- or co-requisite: IM 311 or MA 223 or MA 523 or consent of instructor. (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 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 300. (IM 102) Technical Communication.** Practical aspects of preparing technical reports with emphasis on techniques of collecting and presenting technical and scientific data. Prerequisite: EN 100. (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 300. (3)

**IM 302. Fundamentals of Technology Management.** Presents basic technology management knowledge to graduate students who have not graduated from this area. Engineering economic analysis, statistics control, and basic manufacturing management technology are covered in this course. Focus will be on concepts and applications. (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 137 with a minimum grade of C. (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 300. (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 405. Innovation for a Lean Enterprise.**

Modern operational strategies to achieve lean enterprise objectives are introduced. Pull system, cost reduction, and inventory management are included. Two hours lecture and two hours lab. Prerequisite: IM 302 or IM 313. (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 300 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 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)

**IM 520. Technical Training and Development.** Course provides students with the knowledge and application of a structured approach for developing technical training. (3)

**IM 521. Technical Change and Human Resource Development.** Course provides students with the knowledge and application of a structured approach for developing technical training. (3)

**IM 522. Technical Leadership in Training and Development.** Course provides students with the theoretical background and application of technical leadership. (3)

**IM 523. Training and Development of Technical Teams.** Course provides students with the theoretical background and application of coaching and training of technical teams. (3)

### **IM 555. 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 426 or consent of instructor. (3)

## **INFORMATION SYSTEMS (IS)**

**IS 003. Computer Information Systems Assessment.** Required of all Computer Information Systems (CIS) majors. Prerequisites: CIS major; enrollment in final semester of degree program. Co-requisites: IS 495; UI 450. Credit/no credit. (0)

**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 145. Introduction to Web Development.** Introduction to Web site development including vocabulary, tools, and standards used in the field, with emphasis on HTML/CSS. (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. (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: IS 245 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 275; 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: IS 330 or CS 265 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. Prerequisites: IS 275; CS 265 or IS 330; with minimum grades 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. Prerequisites: IS 375 with a minimum grade of C; enrolled in final fall semester of degree program. (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. Pre- or Co-requisite: IS 445. (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. Prerequisites: IS 330; IS 340; MA

223; MA 139. (3)

**IS 481-483. Problems in Information Systems.** (1-3)

**IS 495. Senior Seminar.** 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. Prerequisites: Computer Information Systems major; enrolled in final spring semester of degree program; WP 003. Co-requisites: IS 003; CL 004. (1)

**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 448. (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). Co-requisite: DS 220. Prerequisites: DS 104; DS 111. (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. Technical Drafting for Designers.** Study and application of the technical drafting standards and techniques for designers. (3)

**DS 205. History of Interiors I.** Interiors, architecture, and furniture from antiquity through the Renaissance. (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. Interior Systems.** Building and distribution systems including structure, MEP, codes, hazardous materials, foundations, framing, flooring, roof systems, windows, walls, ceilings, and IAQ. (3)

**DS 209. Construction Codes for Designers.** Introduction to local, state, federal, and ICC building codes. Prerequisites: CM 126; DS 111; or consent of instructor. (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. (4)

**DS 218. Form and Space for Designers.** Elements and principles of design pertaining to form and space. Design concept development and model construction. (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. Prerequisites: CM 126; DS 001; DS 206; DS 207; DS 209; DS 218; DS 220; or permission of instructor. (4)

**DS 314. Multicultural Design.** Design of public/private areas with an emphasis on awareness respect for people of different social and cultural backgrounds. Prerequisites: CM 126; DS 001; DS 206; DS 207; DS 209; DS 218; DS 220. (4)

**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 for Interior Environments.** A survey of interior materials and finishes utilized in commercial and residential interior design. Includes regulations, codes, standards, and sustainable design. (3)

**DS 410. Hospitality Design.** Design of hospital-ity spaces with emphasis on hotel guest rooms, public areas, food and beverage outlets, administrative functions, and service areas. Prerequisites: Interior Design option – completion of CM 126, DS 001, DS 104, DS 111, DS 205, DS 206, DS 207, DS 209, DS 211, DS 218, DS 220, DS 320, DS 330, DS 332; Hospitality Management – completion of 90 credits or consent of instructor. (4)

**DS 411. Advanced Kitchen and Bath Design.** Advanced study and implementation of space planning techniques and graphic standards for the design of kitchens and bathrooms. Prerequisites: DS 001; DS 205; DS 206; DS 207; DS 211; DS 220. (4)

**DS 412. Contract Design.** Space planning of public areas including building codes, finish and furniture schedules and specifications, and completion of professional design projects. Prerequisites: CM 226; DS

001; DS 205; DS 206; DS 207; DS 209; DS 218; DS 320; DS 330; DS 332; or consent of instructor. (4)

**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 credit 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. Completion of three of the following: DS 211, DS 313, DS 314, DS 410, DS 411, DS 412. (3)

**See University Studies (UI) listings for description of:**

**UI 340. Housing Perspectives. (3)**

**UI 401. American Cultural Landscapes. (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 211. (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. Prerequisites: EN140; any 200 level LI course; minimum grade of C on prerequisites. (3)

**LI 212. (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. Prerequisites: EN140; any 200 level LI course; minimum grade of C on prerequisites. (3)

**LI 215. Film, Literature, and Adaptation.** Focus on the genre of science fiction in both literature and film. Sampling of major authors, novels, and films with the primary emphasis on literature will be studied. Prerequisite: EN 100. (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 the varieties of literature written for children with emphasis on critical examination, evaluation, and selection. Prerequisites: EN 100; CF/PY120; minimum grade of C on prerequisites. (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. Important works from the Romantics through Postmodernism. Concludes with late 20th and early 21st century shifts in artistic vision. Particular attention given to close reading and significance of historical/cultural context. Wide spectrum of experiences in critical writing. Prerequisite: EN 100. (3)

**LI 270. American Literature I.** Beginnings-1860. Survey course of American Literature from the beginnings through 1860. Readings include a broad range of genres: travel writing, captivity narrative, history, poetry, autobiography, oral traditions, sermons, and fiction. Examination of what it means to form a national literature, how historical forces have contributed to that literature, and how cultural identity is acknowledged or silenced. Prerequisite: EN 100. (3)

**LI 271. American Literature II.** 1860-present. Survey of American Literature from the Civil War to the present. Prerequisite: EN 100. (3)

**LI 305. Film Studies: Theories, Genres, and Periods.** Emphasis on the study of film theories, genres and periods as integral aspects of film studies. The films surveyed may include films of any period or genre, and critical texts will emphasize film theory and criticism. Prerequisites: LI 205; any 200-level Literature course. (3)

**LI 307. Studies in Television and Popular Culture.** Introduction to television studies and criticism within the broader academic study of popular culture. Critical readings emphasize contemporary issues and concerns within television studies, and will familiarize students with the historical development of television studies as it has developed as a concern of cultural studies. Prerequisites: LI 205; any 200-level Literature course. (3)

**LI 309. Studies in World Literature.** This special topics course will have a different theme and focus each time it is offered. The content will draw from the literatures of multiple nations, genres and time periods with an emphasis on writers and works from outside the United States of America. May be repeated for up to 6 hours of credit. Prerequisites: EN 140 or PL 115 or equivalent; any 200-level literature course. (3)

**LI 317. Multicultural Visions.** In-depth study of the role that multicultural issues play in informing, contributing to, and potentially transforming our awareness and understanding of diversity through literature and cinema. Co- or prerequisites: LI 205; any 200-level literature course. (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. Teaching Literature and Non-Fiction Texts in the Secondary Schools.** 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, including non-fiction. Prerequisite: EN 201. (3)

**LI 421. Cross-Cultural American Voices.** Focus on the advanced study of American literature from a variety of cultural groups. Investigation into different views of America and what it means to be an American. Prerequisites: EN 140; any 200-level literature course (excluding LI 243). (3)

**LI 425. Focus on the Author.** One or two authors will be studied in depth in order to better understand the body of work of a major writer or writers. The specific author or authors will change with each course offering. May be repeated for up to 6 hours of credit. Prerequisites: EN 140 or PL 115 or equivalent; any 200-level literature course. (3)

**LI 431. Faulkner Seminar.** Study of the works of William Faulkner and other writers. Features in-depth study of the works and criticism of Faulkner, paired with a changing selection of other writers and topics. Students will be introduced to the University's world-class L.D. Brodsky Collection of Faulkner materials. Pre- or co-requisites: EN140; any 200 level LI course.(3)

**LI 476. Early Twentieth-Century British Literature.** Course addresses how British/Irish modernism's radical artistic experimentation transformed a way of seeing the world, beginning with Oscar Wilde's rebellion against Victorian morality and concluding with modernism's dialogue with postmodernism. 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. Twentieth-Century American Novel.** Intensive reading of a selection of American novels from the 20th century. 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 576. American Fiction of the 21st Century.** Study of the social and cultural junctures and fractures explored by 21st century American fiction and its criticism. (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)**

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**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. (2)

**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: HA 300 or 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: HA 300 or 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 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. (Cross-listed as IS 448). 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 1275 or MI 375 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 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 562. 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 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)

**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)

**See University Studies (UI) listings for description of:**

**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 137. (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 minimum grade of C. (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 137. (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 137. (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: MA 137; MN 120; PH 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 or EP 263; MN 384. (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 324; 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 304; MA 140; MN 260; or consent of instructor. (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. Integrated Marketing Communications.** 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: MG 301 or MK 301 with minimum grade of C; QM 258 with minimum grade of C. (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. Brand Marketing.** 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 Marketing.** 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 449. Marketing Management.** An advanced review of the overall marketing process with emphasis on decision-making and strategy development. Prerequisite: 9 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; minimum grade of C in each course. (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 547. 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 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 student media. May be 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 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. (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 320. (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.** 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 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 with a grade of “C” or higher; or approval of instructor. (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. Repeatable up to 3 credit hours. (1-3)

**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. (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, Actuarial, Applied Mathematics and Statistics, and Secondary Education). Prerequisite: Major in Mathematics; 90 credit hours. (0)

**MA 018. Mathematics I Lab.** Course satisfies the developmental mathematics requirement for students enrolled in MA 128 who do not meet the ACT mathematics subscore requirement of 22 or higher. Pre/co-requisite: MA 128 and ACT mathematics subscore of 0-21; or MA 050 with a minimum grade of NDC; declared education major in elementary, early childhood, exceptional child, middle school, or human environmental studies: child development option. (1)

**MA 021. Concepts of School Mathematics Lab.** Course satisfies the developmental mathematics requirement for students enrolled in MA218 who do not meet the ACT mathematics subscore requirement of 22 or higher. Pre/co-requisite: MA218 and ACT mathematics subscore of 0-21; or MA 050 with a minimum grade of NDC; declared secondary education major. (1)

**MA 023. Survey of Mathematics Lab.** Course satisfies the developmental mathematics requirement for students enrolled in MA 123 who do not meet the ACT mathematics subscore requirement of 22 or higher. Pre/co-requisite: MA 123 and ACT mathematics subscore of 0-21; or MA 050 with a minimum grade of NDC. (1)

**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)

**MA 055. Statistical Reasoning Lab.** Course satisfies the developmental mathematics requirement for students enrolled in MA 155 who do not meet the ACT mathematics subscore requirement of 22 or higher. Pre/co-requisite: MA 155 and ACT mathematics subscore of 0-21; or MA 050 with a minimum grade of NDC. (1)

**MA 106. 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: MA 050 with a minimum grade of NDC or ACT Math subscore of 15-21 or a required score on an appropriate mathematics placement test. (3)

**MA 123. Survey of Mathematics.** A sampling of topics including geometry, probability, statistics, finance with an emphasis on real-life applications. Prerequisite: ACT Math subscore of 15 or higher or MA 050 with a minimum grade of ‘NDC’ or MA 106 with a grade of ‘C’ or higher or a required score on an appropriate mathematics placement test. Students with an ACT Math subscore below 22 will co-enroll in MA 023. (University Studies course) (3)

**MA 128. Numbers & Operations for Educators.** Real numbers and their operations, properties, and applications, number theory, numeration systems, algebraic properties, graphing, statistics, probability and their historical importance. Declared education major in elementary, early childhood, exceptional child, middle school, or human environmental studies: child development option major. ACT Math subscore of 15 or higher or MA 050 with a minimum grade of ‘NDC’ or MA 106 with a minimum grade of ‘C’ or a required score on an appropriate mathematics placement test. Students with an ACT Math subscore below 22 will co-enroll in MA 018. (University Studies course) (4)

**MA 133. Plane Trigonometry.** Circular functions, right and oblique triangles, identities and equations, complex numbers. Prerequisites: MA 106 with a minimum grade of C or MA 106 with a minimum grade of C or ACT Math score of 15-21 with required score on appropriate mathematics placement test, or ACT Math score of 22 or higher. (3)

**MA 134. College Algebra.** Functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and sequences. Prerequisite: MA 106 with a minimum grade of C or MA 106 with a minimum grade of C or ACT Math score of 15-21 with required score on appropriate mathematics placement test, or

ACT Math score of 22 or higher. (University Studies course) (3)

**MA 135. College Algebra and Trigonometry.** Integrated course of College Algebra and Plane Trigonometry. Credit may not be received for MA 133 or MA 134 and MA 135. Prerequisite: MA 106 with a minimum grade of 'C' or a required score on an appropriate mathematics placement test, or ACT Math subscore of 22 or higher. (5)

**MA 137. Precalculus.** In-depth study of polynomial, rational, exponential, logarithmic, and trigonometric functions and equations with applications. Credit may not be received for MA 137 and any of the following: MA 133, MA 134, or MA 135. Prerequisite: MA 106 with a grade of CR; or MA 095 with a minimum grade of C; or ACT Math subscore of 22 or higher. (University Studies course) (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 minimum grade of C. (3)

**MA 139. Applied Calculus.** For students in business, social or life sciences. Functions, limits, differentiation and integration of elementary functions. Emphasizes applications. Prerequisites: ACT Math subscore of 24 or MA 134 with a minimum grade of C. (3)

**MA 140. Analytic Geometry and Calculus I.** Analytic geometry, functions, limits, derivatives and integrals of algebraic, trigonometric, and exponential functions with applications. Prerequisite: ACT Math subscore of 26 or higher or MA 137 with a minimum grade of C. (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 minimum grade of C. (5)

**MA 145. Analytic Geometry and Calculus II.** Differentiation and integration of transcendental functions, series, conic sections, polar coordinates. Prerequisite: MA 140 with a minimum grade of C. (4)

**MA 155. Statistical Reasoning.** This 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: ACT Math subscore of 15 or higher or MA 050 with a minimum grade of 'NDC' or MA 106 with a minimum

grade of 'C' or a required score on an appropriate mathematics placement test. Students with an ACT Math subscore below 22 will co-enroll in MA 055. (University Studies course) (3)

**MA 218. Concepts of School Mathematics.** Selected mathematical topics for secondary non-mathematics education majors. Required of secondary mathematics education majors adding middle school certification. Prerequisites: Secondary Education major; ACT Math subscore of 15 or higher or MA 050 with a minimum grade of 'NDC' or MA 106 with a minimum grade of 'C' or a required score on an appropriate mathematics placement test. Students with an ACT Math subscore below 22 will co-enroll in MA 021. (University Studies course) (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 minimum grade of C. (3)

**MA 228. (MA 418).** Geometry and Measurement for Educators. Euclidean geometry - demonstrative, coordinate, transformational; intuitive relationships, constructions, properties of lines, polygons, circles, three-dimensional figures, and two-dimensional non-Euclidean geometry (4). Prerequisite: MA 128 with a minimum grade of C. (4)

**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 128 with a minimum grade of C. (2)

**MA 244. Analytic Geometry and Calculus III.** Vectors, solid analytic geometry, partial differentiation, multiple integration, and topics in vector calculus. Prerequisite: MA 145 with a minimum grade of C. (4)

**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 minimum grade of C; MA 139 or MA 140 with a minimum grade of C. (3)

**MA 318. Mathematics II.** A development of the real number system, its properties and applications, including algebraic logic, graphing, statistic 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 128 with a grade of 'C' or higher. (3)

**MA 334. Mathematical Programming.** Introduction to programming using a computer algebra system. Design and implementation of algorithms for solving mathematical problems. Prerequisites: MA 138 with a minimum grade of C; MA 145 with a minimum grade of C. (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 minimum grade of C. (3)

**MA 340. Concepts of Geometry.** Axiomatic geometry, Menelaus' and Ceva's theorems, harmonic elements and cross ratio, Desargues' theorem, and inversion. Prerequisite: MA 250 with a minimum grade of C. (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 with a minimum grade of C or MA 140 with a minimum grade of C. (3)

**MA 350. Differential Equations I.** Theory and techniques of solving ordinary differential equations, applications, numerical methods, series solutions, and Laplace transforms. Prerequisite: MA 145 with a minimum grade of C. (3)

**MA 375. Theory of Interest.** Course covers part of the financial mathematics examination administered by the Society of Actuaries (SOA)/Casualty Actuarial Society (CAS). Pre- or co-requisite: MA 244 with a minimum grade of C. (3)

**MA 385. Financial Mathematics.** Continuation of MA 375 with emphasis on immunization and dedication, derivatives, hedging and investment strategies. Prerequisite: MA 375 with a minimum grade of C. (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 minimum grade of C 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. Prerequisites: MA 223 with a minimum grade of C; MA 345 with a minimum grade of C. (3)

**MA 440-441. Independent Study.** Study topics in mathematics not covered in other courses. Prerequisite: MA 240 or MA 244 with a minimum grade of C. (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 250 with a minimum grade of C. (3)

**MA 445. Modern Algebra.** Introduction to the study of sets, rings, fields, groups, and vector spaces. Prerequisite: MA 250 with a minimum grade of C. (3)

**MA 449. Mathematical Problem Solving.** Solving non-routine problems, reading, research, and communication of mathematical ideas. Prerequisites: MA 250; MA 345; MA 240 or MA 244; minimum grade of C in all prerequisite courses. (3)

**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 cryptanalysis, 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 minimum grade of C. (3)

**MA 478. Mathematical Modeling.** Introduction to mathematical descriptions of physical phenomena, computational methodologies, and empirical interpretations of numerical data. Prerequisites: MA 244; MA 345; MA 344 or CS 155 or CS 177; minimum grade of C in all prerequisite courses. (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 244 with minimum grade of C. (3)

**MA 524. Probability and Statistics II.** Continuation of MA 523 with emphasis on bivariate distributions and statistical inferences, statistical sampling, estimation,

testing hypotheses, parametric procedures for one-sample and two-sample problems. Prerequisite: MA 523 with minimum grade of C.(3)

**MA 526. Actuarial Seminar.** Solving probability problems that are unique to actuarial science. Prerequisite: MA 524 with a minimum grade of C. (3)

**MA 532. 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 minimum grade of C. (3)

**MA 538. History of Mathematics.** A historical account of mathematics from the time of Newton and Leibniz to its twentieth century developments. Prerequisite: MA 139 or MA 140 with a minimum grade of C. (3)

**MA 540. Projective Geometry.** Non-Euclidean geometry, study of projective geometry and its relation to other geometries. Prerequisite: MA250 with a minimum grade of C. (3)

**MA 545. Linear Algebra and Matrices.** Introduction to vector spaces, linear transformations, matrices, eigenvalues, eigenvectors, and numerical methods in linear algebra. Prerequisites: MA 250 with minimum grade of C; MA 345 with minimum grade of C. (3)

**MA 546. Advanced Calculus I.** Sets, relations and functions, sequences of real numbers and sequences in  $\mathbb{R}$ , continuous and differentiable function on  $\mathbb{R}$ . Prerequisites: MA 244 with minimum grade of C; MA 250 with minimum grade of C. (3)

**MA 547. Advanced Calculus II.** Riemann-Stieltjes integral, measure and Lebesgue integral, convergence of infinite series of functions, Fourier series, some Hilbert space theory. Prerequisite: MA 546 with minimum grade of C. (3)

**MA 548. Enumerative Combinatorics.** A study of basic enumeration techniques, recurrence relations, generating functions, the inclusion-exclusion principle, Ramsey theory, partially-ordered sets, and combinatorial designs. Prerequisites: MA 145 with a minimum grade of C; MA 250 with a minimum grade of C. (3)

**MA 549. 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. Prerequisites: MA 145 with minimum grade of C; MA 250 with minimum grade of C. (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 with minimum grade of C. (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 244 with minimum grade of C or MA 250 with minimum grade of C. (3)

**MA 575. Time Series and Forecasting.** Introduction to financial time series analysis with hands-on estimation of mean and conditional heteroscedastic processes using statistical software. Prerequisites: MA 145 with a minimum grade of C; MA 425 with a minimum grade of C. (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 with a minimum grade of C or consent of instructor. (3)

**MA 585. Introduction to Life Contingencies.** Introduction to survival models, life tables, contingent payment models, and contingent annuity models using tools of mathematical statistics. Prerequisite: MA 524 with a minimum grade of C. (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 antigen-antibody 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)

## **MILITARY SCIENCE (NG)**

**NG 101. Introduction to Military Science.** Consists of classroom introduction to Army leadership, decision-making and group processes. (3)

**NG 103. Army War Leader Course.** Three weeks at Warrior Leader Course for selected students designated for Army Officer Candidate School. (3)

**NG 104. Army Leadership Study.** Analyzes fundamental tactical knowledge needed to be an Army leader. Evaluates lessons learned in previous military operations. (1)

**NG 201. Introduction to Army Team Leadership I.** Consists of technical knowledge needed to be an Army leader. (3)

**NG 202. Team Leadership II.** Consists of technical knowledge needed to be an Army leader. (3)

**NG 203. Introduction to Army Team Leadership.** Eight weeks at Officer Candidate School for students designated for commission. (3)

**NG 301. Adaptive Leadership.** Course will challenge students to study, practice, and evaluate adaptive leadership skills using scenarios related to small unit tactics. (3)

**NG 302. Adaptive Army Leadership II.** Course will challenge students to study, practice, and evaluate adaptive leadership skills using scenarios related to small unit tactics. (3)

**NG 401. Application of Army Leadership Skills.** Improves proficiency in planning, executing, and assessing complex operations as a platoon leader. (3)

**NG 402. Preparing for First Duty Assignment.** Preparation for first duty assignment. (3)

## **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.** Introductory course for prospective music teachers focusing on the role of music in the schools, as well as ethical and legal issues for educators. Co-requisite: PY 222. (3)

**ME 250. Trumpet and Horn Techniques.** Methods, materials, and techniques for teaching the high brass instruments. Pre- or co-requisite: 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 co-requisite: 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 co-requisite: 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. Pre- or co-requisite: Music major or instructor consent. (1)

**ME 261. Percussion Techniques.** Methods and materials for teaching percussion instruments. (1)

**NOTE:** ME 270 through ME 465 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. Prerequisites: Admission to Teacher Education Program; EX 390; ME222; SE 350. Co-requisite: ME 371. (1)

**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-requisite: ME 270. (3)

**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: 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. Co-requisite: MU 386. (2)

**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 465. Music Education Student Teaching.** Professional practicum requiring demonstration of teaching and competencies in school settings under the direction of cooperating teachers and university coordinators. Co-requisite: EF 400. (12)

**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)

**MM 312. Advanced Form and Analysis.** In-depth study of musical form from the Baroque to the present with a review of harmony and analysis. (3)

**MM 314. Instrumentation and Arranging.** Fundamentals of orchestration and arranging using computer music notation software. (2)

**MP 001. Recital.** Public performance of one major

work or a collection of works of 12-15 minutes duration for the applied instrument or voice during the sixth semester in residence or during the second semester of applied music study at the 300 level. Students should enroll in MP 001 during the semester of the recital. (0)

**MP 100-499. 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 112. Class Guitar.** Beginning course emphasizing classical and finger style technique, music fundamentals, and basic chording and strumming. (2)

**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 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. Vocal Techniques.** 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 I.** Introduction to the professional career skills necessary to create new opportunities and succeed as an artist. Encompasses practices and methods for sustaining a successful career in dance, music, theatre, and the visual 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 students 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. Prerequisites: Consent of instructor; must be able to read music and have a percussion background or keyboard technique. (1)

**MU 299. Chamber Music and Accompanying.** Study and performance of chamber music in small ensembles. 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. Co-requisite: 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 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\*.** Open to all university students, a select mixed choir, 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. Audition required. Prerequisite: Ability to read music. (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. Co-requisite: 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: MP 3xx applied music level. (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. 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:** \*Only one major ensemble may be counted per semester toward completion of a given degree track. Participation in additional ensembles beyond the major ensemble in any given semester may only count toward elective credit(s) on a degree track.

## **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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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; NC 489; NS 487; NS 488; NS 489. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: NC 371; NC 372; NS 371; NS 372; NS 373. (3)

**NS 380. Holistic 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 only. (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. Co-requisites: NC 387; NC 388; NC 389; NS 387; NS 388; NS 389. (2)

**NS 385. Research in Professional Practice.** Explores basic concepts of nursing research and evidenced-based practice. For RN-BSN students only. (3)

**NS 386. Professional Practice: Community Health.** Introduction, application of community health concepts related to rural populations. Emphasizes independent decision making based on assessment of individuals, families and communities. For 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. Co-requisites: 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. Co-requisites: 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. For 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. For 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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. Co-requisites: 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)**

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### **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. Dance for Aerobic Fitness.** 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 Sports.** Theory, skill development and teaching techniques of archery, badminton, bowling, golf, pickleball, speedminton, tennis, and track/field. (3)

**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 childrens' rhythms, creative movement, and rhythmic activities. Four hours lab per week. (2)

**PE 261. Concepts of Injury Management.** Designed to provide students with the information needed to accurately prevent, identify and manage common orthopedic injuries. Co-requisite: PE 263. (3)

**PE 262. Introduction to Group Exercise.**

Designed to provide students with an overview of the educational concepts, performance techniques, program design, and leadership skills needed to lead safe and effective group exercise. (1)

**PE 263. Injury Management Lab.** Provide students basic knowledge and skills to aid in prevention of injury and provide immediate treatment of common orthopedic injuries. Co-requisite: PE 261. (1)

**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. Prerequisite: PE 239. (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: PE 305. (3)

**PE 464. Kinesiology.** Analysis of the anatomical involvement and the biomechanical principles related to human movement. Prerequisite: BS 113/013 with a grade of C or higher. (3)

**PHYSICS (PH)**

**PH 003. Physics Assessment.** Required of all Physics majors. Students must take the Major Field Assessment Test (MFAT) in Physics. Students should take MFAT during their last semester taking majors courses. Credit/No Credit. Pre- or co-requisite: PH477 (0)

**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 with a minimum grade of C. (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 with a minimum grade of C. Pre or Co-requisite: MA 244. (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 137. (3)

**PH 341. Optics.** Geometrical and physical optics; Fourier analysis; interference, diffraction, double

refraction, gratings and light in matter. Prerequisites: PH 231; MA 244. (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 244. (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 244. (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 244. (3)

**PH 378. Interdisciplinary Research.** Original research for students of superior ability in majors other than engineering physics, physics, or physics education. 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 education. 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 244; 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 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)

**PH 578. Interdisciplinary Research.** Original research for students of superior ability in major other than engineering physics, physics, or physics education. (1)

**PH 579. Interdisciplinary Research.** Original research for students of superior ability in major other than engineering physics, physics, or physics education. (2)

**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 or PS 220; 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 or PS 220. (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 or PS 220. (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 or PS 220. (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 or PS 220. (3)

**PS 331. The American Executive.** Designed to study the structure and dynamics of the executive branch in the United States, both at the national and state levels. 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 or PS 220. (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 or PS 220. (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 or PS 220. (3)

**PS 361. Campaigns and Elections.** A study of the structure and dynamics of the electoral process in the United States, including voting behavior and campaigning. 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 or PS 220. (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 or PS 220. (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 or PS 220; 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 or PS 220. (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 or PS 220. (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 or PS 220. (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 or PS 220. (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 or PS 220. (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 or PS 220. (3)

**PS 471. Senior Seminar in Political Science.** Intensive readings course enabling students to hone analytical skills and gain depth in understanding the state of the discipline. Pre- or co-requisites: PS 240; junior standing. (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 or PS 220. (3)

**PS 491-496. Topics in Political Science.** Analysis of variable topics in Political Science, such as interest groups, rational choice theory or environmental politics. May be repeated for credit when different topics are offered. (3)

**PS 502. (PS 402) Fundamentals of Public Administration.** A contemporary view of public and nonprofit agencies from and internal and external perspective. Introduction of graduate students to the concepts and functions of administrative organizations. Prerequisite:

Acceptance to MPA or Accelerated MPA program or consent of instructor. (3)

**PS 505. (PS 405) Organizational Theory and Behavior.** This course will introduce students to the major concepts of organization theory and organizational behavior. Topics include organization structure and design, bureaucracy, the systems concept, leadership, culture, job satisfaction and motivation. Prerequisite: Acceptance to MPA or Accelerated MPA program or consent of instructor. (3)

**PS 518. (PS 418) Public Policy Analysis.** This course is a systematic introduction to the conduct of policy analysis. It is designed for practitioners and for those seriously interested in how policy analysts do their work. Prerequisite: Acceptance to MPA or Accelerated MPA program or consent of instructor. (3)

**PS 545. Research Methods for Public Administrators.** This course provides a foundation in the theory and practice of applied research methodology for public administrators, from conceptualization to practical data analysis. Prerequisite: Acceptance to MPA or Accelerated MPA program or consent of instructor. (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 or PS 220. (3)

**PS 595. International Law.** Examination of those principles generally governing the conduct of nations. Prerequisite: PS 103 or PS 104 or PS 220. (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)**

**UI 458 Terrorism and Political Violence (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.** Overview of the social, cognitive, physical and emotional changes that occur from conception through adolescence. (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.** Overview of the social, cognitive, physical, and emotional changes that occur from conception through adolescence. (3) (University Studies course)

**PY 230. Ethics and Diversity in Psychology.** Explores concepts of ethics and diversity in the research, education, and practice of psychology. Introduction to various topics of diversity and to ethical principles and codes of conduct that guide decision-making about ethical dilemmas. (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. Prerequisite: Completion of 45 hours. (3)

**PY 325. Psychological Development of the Family.** Examination of psychological factors affecting family development and interaction across the stages of family life. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (3)

**PY 366. Introduction to Sensation and Perception.** Introductory study of the behavioral, physiological and cognitive aspects of sensation and perception. Prerequisite: Completion of 45 hours. (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 minimum grade of C; PY 103 with a minimum grade of C; PY 230 with a minimum grade of C; PY 271 with a minimum grade of C; completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (3)

**PY 440. Abnormal Psychology.** Survey of classification and assessment of abnormal behavior, its causes and methods of treatment. Prerequisite: Completion of 45 hours. (3)

**PY 441. Introduction to Clinical Psychology.** Purpose of course is to familiarize students with the field of clinical psychology: concepts, methods, skills, and professional issues. Prerequisite: Completion of 45 hours. (3)

**PY 442. Psychotherapy.** Theoretical and methodological aspects of analytic, neo-analytic, existential, cognitive, and behavioral therapies and assessment of their clinical effectiveness. Prerequisite: Completion of 45 hours. (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; completion of 45 hours. (3)

**PY 460. Cognitive Processes.** Principal cognitive processes in humans, theoretical explanations and empirical findings. Prerequisites: one PY course; completion of 45 hours. (3)

**PY 466. Introduction to Physiological Psychology.** An introduction to the neural, hormonal, and genetic mechanisms that help mediate behavior. Prerequisite: Completion of 45 hours. (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 230; PY 271; PY 370; completion of 45 hours. (3)

**PY 489. Advanced Topics in Psychology.** Explores present day psychological issues, social values, and personal responses to social issues and choices by applying students' understanding of psychological principles. Prerequisites: PY 370 with a minimum grade of C and completion of the extended core requirements in the major; completion of 45 hours. (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; completion of 45 hours. May be repeated for credit. (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 minimum grade of C and completion of the extended core requirements in the

major; completion of 45 hours. (3)

**PY 525. Maturity and Aging.** Investigation of the physical, intellectual, social and cultural influences on post-adolescent development. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (3)

**PY 531. Psychological Testing.** Basic principles of construction, administration and interpretation of psychological tests. Considerations in the use of tests in various settings. Prerequisite: Completion of 45 hours. (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. Prerequisite: Completion of 45 hours. (3)

**PY 571. Introductory Behavioral Statistics.** An introduction to descriptive and inferential statistics used in the reporting of educational and psychological research. Prerequisite: Completion of 45 hours. (3)

**See University Studies (UI) listings for descriptions of:**

**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)**

## 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. Quantitative Analysis.** Application of mathematical techniques to business decision problems including supply chain management, quality control, inventory management, linear programming, 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)

**QM 558. Principles of Supply Chain Management.** Design, planning, execution, control, and monitoring of supply chain activities with the objective of creating net value, building a competitive infrastructure, leveraging worldwide logistics, synchronizing supply with demand and measuring performance globally. Prerequisite: QM 352 with a minimum grade of C. (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 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 340. Mentoring Principles.** 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 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 340. (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 371. Challenge Course Administration.** Introduction to fundamental theory and programming. Focus on developing facilitation skills, learning fundamental administrative and risk management practices. (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 480. Recreation in Community Development.** Analysis of the role of recreation programming and facilities in the community, with emphasis on the importance of inclusion of leisure services in community development. Prerequisites: RC 140; senior standing. (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)

## RUSSIAN (RN)

**RN 100. Survival Russian.** Acquisition of basic skills in speaking, understanding, reading and writing

Russian and appreciation of the culture of Russian-speaking peoples. (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) (University Studies Course)

**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 307. Content Literacy Methods for Middle and High School.** Introduction to content literacy methods and materials for middle and high school. Co-requisites: SE 355; SE 360 or SE 365. Prerequisites: Admission to Teacher Education Program; Pedagogy I courses (EX 390; SE 350). (3)

**SE 311. Techniques of Teaching High School Mathematics.** Methods, materials and trends in secondary mathematics. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (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: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (4)

**SE 314. Techniques of Teaching Business and Marketing.** Methods, materials and trends in secondary business education. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 315. Techniques of Teaching Art.** Methods, materials and trends in secondary art. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 316. Techniques of Teaching Technology Education.** Philosophy, methods, materials and trends in technology education. Prerequisites: Admission to Teacher Education Program; completion of Ped 1

semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 317. Methods in Agricultural Education.** 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. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 318. Techniques of Teaching Secondary Social Studies.** Methods, materials and trends in secondary social studies. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 319. Techniques of Teaching English.** Teacher candidates will learn about and apply the methods, materials, and trends in secondary English. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 320. Techniques of Teaching Science.** Methods, materials and trends in secondary science. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 321. Techniques of Teaching Physical Education.** Methods, materials and trends in secondary school physical education. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 322. Techniques of Teaching Foreign Languages.** Methods, materials and trends in foreign language education. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor. Co-requisites: Ped 3 semester courses. (3)

**SE 323. Techniques of Teaching Speech and Theatre.** Methods, materials and trends in the teaching of speech communication at the secondary level. Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses; completion of Ped 2 semester courses; or permission of instructor.

Co-requisites: Ped 3 semester courses. (3)

**SE 337. Administrative Systems Management Internship.** Training and work experience in an approved administrative services position, supervised by a departmental representative. (3)

**SE 350. Pedagogy I: Principles of Effective Teaching in Middle and Secondary School.** Exploration of evidence-based practices related to effective teaching in middle and secondary schools and the social, legal, and historical contexts in which those practices occur. Prerequisite: Acceptance into the Teacher Education Program. Co-requisite: EX 390. (3)

**SE 355. Field Experience II.** Field experience for implementing competencies: differentiation, using assessment data, addressing diversity, developing collaborations, managing classrooms and professional development. Co-requisite: SE 365 or SE 360; SE307(-except for Secondary English majors). Prerequisite: Admission to the Teacher Education Program; completion of Ped 1 semester courses; students must obtain a C or better in all teacher education courses. (3)

**SE 360. Pedagogy II: Middle School – Interdisciplinary Methods and Technology.** Interdisciplinary methods and teaching strategies integrating effective methods for implementing educational technology into instruction at the middle school level. Co-requisites: SE 355; SE 307; EL 350; EL 355. Prerequisites: Admission to the Teacher Education Program; completion of Ped 1 semester courses; EL 314. (3)

**SE 365. Pedagogy II: Secondary School–Interdisciplinary Methods and Technology.** Interdisciplinary methods and teaching strategies integrating effective methods for implementing educational technology into instruction at the secondary school level. Co-requisites: SE 355; SE 307(except for Secondary English majors). Prerequisites: Admission to Teacher Education Program; completion of Ped 1 semester courses. (4)

**SE 380. Advanced Field Experience.** Field experience for implementing advanced competencies: differentiation, using assessment data, addressing diversity, developing collaborations, managing classrooms and professional development. Co-requisites: SE 385; Techniques of Teaching Content; SE 390. Prerequisites: Admission to Teacher Education Program; Completion of Ped 1 semester courses; completion of Ped 2 semester courses; students must obtain a C or better in all teacher education courses. (3)

**SE 385. Pedagogy III: Advanced Methods of Middle and Secondary Teaching.** Advanced application of evidence-based practices organization, curriculum assessment and management of the secondary classroom. Co-requisites: SE 380; Techniques of Teaching Content;

SE 390. Prerequisites: Admission to Teacher Education Program; Completion of Ped 1 semester courses; completion of Ped 2 semester courses; students must obtain a C or better in all teacher education courses. (3)

**SE 390. Instructional Interventions for Middle and High School Students with Special Literacy Needs.** Literacy assessment techniques and interventions for middle and high school students with reading deficits. Co-requisites: SE 385; SE 380. Prerequisites: Admission to Teacher Education Program; Completion of Ped 1 semester courses; completion of Ped 2 semester courses; students must obtain a C or better in all teacher education courses. (3)

**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 465. Student Teaching.** Clinical experience requiring a demonstration of content knowledge, differentiated instruction, curriculum implementation, critical thinking, classroom management, communication, assessments, professionalism and collaboration. Co-requisite: EF 400. Prerequisites: Completion of all University studies, 3.0 GPA in the content discipline, and 3.0 GPA in the professional education courses; passing score on the appropriate content exam(s). (12)

**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)

**SE 527. Implementing Business and Marketing Education.** Study of components for successful implementation of business and marketing programs. Prerequisite: Appropriate Bachelor's degree. (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. (University Studies course) (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)

## **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 205. Building the Professional Relationship.** Provides knowledge and skill practice to create effective, beginning professional helping relationships with diverse populations. For non-Social Work majors. (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 with a minimum grade of C or consent of instructor; Social Work major. (3)

**SW 222. Case Management.** Study of client-driven service coordination with special emphasis on strength-based assessment. Co-requisite: SW 221. Prerequisite: SW 110 with a minimum grade of C or consent of instructor; 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.** Foundational course focusing on theories and knowledge related to biological, psychological, sociological, spiritual and cultural processes in development from conception to adolescence. Emphasis on the biopsychosocial spiritual and cultural systems that influence behavior, development and well-being. First course in two-part sequence. Prerequisite: Admission to the Social Work program. (3)

**SW 308. Human Behavior and Social Environment II.** Focus on lifespan perspective of human development from young adulthood to death. An ecological/systems theoretical framework is utilized to examine the biopsychosocial spiritual and cultural systems that influence behavior, development and well-being. Second course in two-part sequence. 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. Prerequisites: SW 242 with a minimum grade of C; admission to Social Work Program. (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 (SO)**

**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 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. Prerequisites: CJ 320; junior standing. (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: CJ 100 or SO 102. (3)

**SO 360. Theories of Crime.** Interdisciplinary exploration of the leading theoretical explanations of

criminal behavior. Prerequisites: CJ 100 or SO 102; junior standing. (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 444. Deviant Social Behavior.** An examination of abnormal behavior as a product of the structure and process of one's social environment. Prerequisites: SO 102; junior standing. (3)

**SO 471-473 (SO 387-389). Independent Study in Sociology.** Directed individual study of special interest areas in sociology. (1-3)

**SO 491. 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)

## **SPANISH (SN)**

**SN 010. Language Proficiency Exam: Midpoint.** Assessment of the student's proficiency level midway through their language program. Co- or prerequisite: 18 hours of Spanish. (0)

**SN 020. Language Proficiency Exam: Exit.** Assessment of the student's proficiency level upon completion of the language program. Co- or prerequisite: 36 hours of Spanish. (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 105. Spanish for the Health Professions I.** Introductory course in the acquisition of Spanish in the context of healthcare. (3)

**SN 110. Spanish for the Health Professions II.** Continuation of the study of the acquisition of Spanish in the context of healthcare. (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 215. Spanish for the Health Professions III.**

Continuation of the study of the acquisition of Spanish in the context of healthcare. (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 or concurrent enrollment with semester study abroad. 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 or participating in departmentally-sponsored exchange; cumulative 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 250. Governance of Sport Organizations.** Examines the governance of sports and policy development at the amateur, collegiate, professional and international levels. Prerequisite: SM 220. (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 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. Introduction to Networks.** 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 networks and the Internet, layered communications, networking models, networking services and protocols. Prerequisite: TN 255. (3)

**TN 375. Routing and Switching Essentials.** Advanced networking course focusing on the purpose, nature, and operations of routers and switches including routing protocols and virtual area networks. The course emphasizes IOS installations, configurations and maintenance of routers and switches. 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, Linux, 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 133; 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 475. Scaling Networks.** Course emphasizes how to design corporate networks and configure routers and switches for advanced functionality in larger and more complex networks. Pre- or co-requisite: TN 375. (3)

**TN 563. Connecting Networks.** Emphasizes concepts on network design, wide area network operation, monitoring and troubleshooting networks including routing and switching site-to-site connectivity concepts. Two hours lecture; two hours lab. Prerequisite: TN 475. (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 563. (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.** In-class workshop and individualized instruction in written communication. (3)

**TL 425. Materials and Assessment for English as a Second Language Classroom.** Advanced course in the analysis and preparation of materials for teaching ESOL and the basics of test development in ESOL. Prerequisite: TL 585. (3)

**TL 525. English as a Second/Foreign Language: Learning and Teaching.** Basic theories of second language acquisition and their implications for second language teaching, including work with ESOL students and development of personal theories of second language learning and teaching. Prerequisites: EN 140; any 200-level literature course. (3)

**TL 530. Practicum in TESOL.** Provides students with practical classroom experience in teaching ESOL. Students who pursue DESE ELL certification acquire experiences in planning for and working with ELLs in both elementary and secondary settings. (3)

**TL 585. Methods and Techniques for Teaching ESOL.** Introduces students to research supported principles and methods for teaching ESO/EFL. Emphasis on curriculum development, problem-solving, adopting/adapting appropriate teaching methods and materials to teach language skills. Prerequisite: 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 and aural skills in musical theatre repertoire. Prerequisites: MM 105; proficiency exam; or consent of instructor. (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 123. (TH 222) Class Voice for Musical Theatre II.** Advanced basic principles of singing and vocal technique for musical theatre. Prerequisite: TH 122; consent of instructor. 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 181. (TH 381). Script Analysis.** Investigation and application of contemporary, formal approaches to the criticism and analysis of dramatic literature. (3)

**TH 201. Private Voice for Musical Theatre I.** Sophomore level principles of singing and vocal technique for musical theatre. May be repeated for credit. (1)

**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 I.** Explores various audition, cold-reading, and interview techniques, marketing strategies, and solo exercises. May be repeated for credit. (1)

**TH 221. Auditioning II.** Explores various audition, cold-reading, and interview techniques, marketing strategies, and solo exercises. Pre- or co-requisite: TH 219; or consent of instructor. (2)

**TH 223. Movement for the Actor I.** Introductory movement course for actors to explore the movement techniques commonly used in the theatre. 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 I.** Introduction to the professional career skills necessary to create new opportunities and succeed as an artist. Encompasses practices and methods for sustaining a successful career in dance, music, theatre, and the visual 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 I.** Beginning study of technical and graphic drawing for theatre, providing a basic understanding of CAD and rendering. (3)

**TH 267. (TH 260). Drawing for the Theatre II.** Advanced study of technical and graphic drawing for the theatre, providing more in-depth understanding of computer aided drawing and rendering. Pre- or co-requisites: TH 231; TH 265; or consent of instructor. (3)

**TH 275. Stage Management.** Investigation of the theories and techniques of stage management. (3)

**TH 291. Properties and Crafts I.** Introduction to materials and techniques in theatrical properties and craft. Lab and production work required. (3)

**TH 301. Private Voice for Musical Theatre II.** Junior level principles of singing and vocal technique for musical theatre. May be repeated for credit. (1)

**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 Actor I.** 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 123; consent of instructor. May be repeated for credit. (3)

**TH 323. Movement for the Actor II.** Intermediate movement course where actors explore the movement techniques commonly used in the theatre. 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 I.** Basic study of theatrical painting techniques. Lab and production work required. Prerequisite: TH 231 or consent of instructor. (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 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 I.** Application of the artistic and technological aspects of theatrical sound design and production. (3)

**TH 393. Properties and Crafts II.** Advanced exploration of materials and techniques in theatrical properties and craft. Lab and production work required. (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 401. Private Voice for Musical Theatre III.** Senior level principles of singing and vocal technique for musical theatre. May be repeated for credit. (1)

**TH 416. Acting Styles.** Advanced scene study course in 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 417. Voice for the Actor II.** Advanced study of the voice as a primary tool of theatrical expression; introduction and use of the IPA. 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 429. Accents and Dialects for the Actor.** Designed to develop skills for dialect acquisition for the stage and proficiency in several of commonly used stage dialects. 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. (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 475. Topics in Technical Theatre.** Survey of topics related to advanced stagecraft, technical direction, lighting, sound and advanced construction techniques. (3)

**TH 481. Scene Painting II.** Advanced study of theatrical painting techniques. Lab and production work required. (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 486. Sound Design II.** Advanced practice with audio hardware, analog and digital mixing consoles, and performance techniques specific to live theatre. Pre- or co-requisite: TH 386; or consent of instructor. (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 497. Choreography III.** Advanced exploration of the creative process focusing on refinement of choreographic techniques, and critique and analysis of developed dance works. (3)

**TH 498. (Cross-listed as DA 498). BFA Project.** The preparation, presentation, and assessment of a major theatre project. Prerequisites: Senior status; and consent of department chair. 2)

**TH 499. (Cross-listed as DA 499). Internship.** Experiential involvement with an outside professional theatre, film or television company or group of professionals. Credit/no credit. Prerequisite: Consent of department chairperson. (2)

**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)

**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 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 or PS 220; 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)

**IU 317. System Thinking for Everyone.** Basic concepts in system theory, system models, applications in social, economic, ecological, biological, chemical and physical systems. Two one-hour lectures; one two-hour lab. Prerequisite: Completion of Logical Systems, Oral Expression Physical Systems, and Written Expression recommended. (3) (University Studies Course)

**IU 321. Creative Problem Solving.** Enhances creative thinking and problem solving to achieve creative solutions. Includes exposure to idea generation and problem solving processes. (3) (University Studies Course)

**IU 300. Drugs and Behavior.** An interdisciplinary coverage of psychoactive drugs from the perspectives of psychopharmacology, history, and criminal justice. (3) (University Studies course)

**IU 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)

**IU 303. The Female Experience.** A seminar

examining the past and present experiences of women in diverse cultural contexts to enhance the human experience. Prerequisites: Behavioral Systems; Economic Systems; Political Systems; Social Systems; or consent of instructor. (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 develop 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 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 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 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 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 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 182 by consent of the instructor; or consent of the instructor. (3) (University Studies course)

**UI 393. Age of Modernism.** Examines the phenomenon of Modernism in music and culture through the study of 13 masterpieces of music in the context of their time. Prerequisites: MM 203 and MM207; or MU 181 or MU 182 by permission of instructor; or permission of 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 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 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 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 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 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 445. Social Perspectives of Sexuality.** Critically examine the social, cultural, familial and political factors that influence human sexuality and expression. (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 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 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 457. African-Americans During a Time of Slavery.** Study of Africans in America, both slave and free, from 1619-1865. (3) (University Studies course)

**UI 458. Terrorism & Political Violence.** Critical analysis of the political, cultural, and psychological aspects of global terrorism and political violence both historically and currently. (3) (University Studies course)

**UI 459. Nature Literacy.** Experience with the natural environment resulting in students actively seeking ways to combine environmental stewardship with professional personal lives. (3) (University Studies course)

**UI 460. Death Penalty History and Issues.** Exploration of the history of capital punishment in US law, constitutional issues and policy arguments for and against the practice. (University Studies course) (3)

**UI 461. Issues in Modern Art.** Investigation of the development of Modernism in western culture by means of the arts produced at the time. (3) (University Studies course)

**UI 462. Stalin's Hunger Games.** Study of Stalin's Russia and the role of women through the prism of Suzanne Collins' trilogy – "The Hunger Games." (3) (University Studies course)

**UI 480. Social Psychological Aspects of Dress.** Examination of social, psychological, economic, political, religious, and cultural factors that influence dress and human behavior. (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 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)

## **WRITING PROFICIENCY (WP)**

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**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 IDs for admission to the testing site.

## **ZOOLOGY (ZO)**

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**ZO 310. Animal Biology.** Diversity of animal life with an emphasis on invertebrates. Comparison of the major animal phyla emphasizing integration of function and form. Three lectures; one two-hour lab. Prerequisite: BI 283 with minimum grade of C. (4)

**ZO 315. Comparative Anatomy.** Intensive study of selected organ systems of lower chordates and representative vertebrates. One lecture; two two-hour labs. Prerequisite: ZO 310. (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; one two-hour lab. Prerequisites: BI 283 with a minimum grade of C; CH 341; 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; one two-hour lab. Prerequisites: BI 283 with minimum grade of C; CH 341. (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 283 with a minimum grade of C; MA 134 or MA 137 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 310. (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: ZO 310. (3)

**ZO 445. Aquatic Entomology.** Introduces students to the biology, ecology, and taxonomy of aquatic

insects that live in streams, lakes, and wetlands. Emphasis on taxonomic identification of the regionally common aquatic insects. Studio-style course in which two two-hour class periods will involve both lecture and lab activities. Prerequisite: ZO 310. (3)

**ZO 451. Vertebrate Histology.** Vertebrate tissue preparation, tissue composition, and tissue identification. Two lectures; one two-hour lab. Prerequisite: ZO 310 or ZO 331. (3)

**ZO 459. Mammalogy.** Introduction to the ecology, zoogeography, structure/function, evolution, and behavior of mammals. One lecture; two two-hour labs. Prerequisite: BI 283 with a minimum grade of C. (3)

**ZO 460. Herpetology.** An introduction to the biology of the amphibians and reptiles. Evolutionary history, ecology, behavior, physiology, and distribution. Prerequisite: BI 283 with a minimum grade of C. (3)

**ZO 465. (Cross-listed as AO 435). Entomology.** Insect biology, behavior, control, structure, diversity, physiology and additional selected topics in entomology.

Two lectures; one two-hour lab. Prerequisite: BI 283 with a minimum grade of C 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; one two-hour lab; one Saturday field trip. Prerequisite: ZO 310. (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 283 with a minimum grade of C. (3)

**ZO 478. Ichthyology.** An introduction to the evolution, zoogeography, taxonomy, and ecology of fishes, with particular reference to Missouri fishes. Two lectures; one two-hour lab. Prerequisite: ZO 310. (3)



# University Personnel



# UNIVERSITY PERSONNEL

## ADMINISTRATIVE OFFICERS

### Carlos Vargas (2015)

President

B.S., National University of Mexico; M.S.-Aerospace Studies; M.S.-Physics, Ph.D., U of MI.

### Karl Kunkel (2016)

Provost

B.A., M.A., Ph.D., U of MO-Columbia.

### Kathy Mangels (1995)

Vice President, Finance and Administration (2006)

B.S., U of MO-Columbia; M.A., Southeast 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

### Charles McAllister (2006)

Vice Provost (2014)

Dean, School of Graduate Studies (2014)

B.S., U of NE; M.S., Purdue U; M.A., Southeast MO State U., Ph.D., Penn State.

### William Holland (2005)

Vice President, University Advancement/Executive Director, Foundation (2009)

B.S., MO State U.

## DEANS AND DEPARTMENT CHAIRPERSONS

### DONALD L. HARRISON COLLEGE OF BUSINESS

#### Dr. Gary Johnson (Interim) Dean

Dept. of Accounting, Dr. Alisha Youngblood Ortiz (Interim)

Dept. of Economics & Finance, Dr. Rebecca Summary

Dept. of Management & Marketing, Dr. Judy Wiles

### COLLEGE OF EDUCATION

#### Dr. Diana Rogers-Adkinson, Dean

Dept. of Educational Leadership and Counseling,

Dr. C.P. Gause

Dept. of Elementary, Early, and Special Education,

Dr. Julie Ray

Dept. of Middle & Secondary Education, Dr. Simin Cwick

### COLLEGE OF HEALTH AND HUMAN SERVICES

#### Dr. Morris Jenkins, Dean

Dept. of Aerospace Studies, Capt. Michael Holt

Dept. of Communication Disorders, Dr. Marcia Brown-Haims

Dept. of Criminal Justice & Sociology, Dr. Jeremy Ball

Dept. of Health, Human Performance, & Recreation,

Dr. Joe Pujol

Dept. of Human Environmental Studies,

Dr. Victor Wilburn (Interim)

Dept. of Military Science, Capt. Richard Branson

Dept. of Nursing, Dr. Gloria Green

Dept. of Social Work, Dr. Cathy McElderry

### COLLEGE OF LIBERAL ARTS

#### Dr. Francisco Barrios, Dean

Dept. of Communication Studies, Dr. Glen Williams

Dept. of English, Dr. Susan Kendrick

Dept. of History, Dr. Wayne Bowen

Dept. of Mass Media, Dr. Karie Hollerbach

Dept. of Modern Languages, Anthropology & Geography,

Dr. Toni Alexander

Dept. of Political Science, Philosophy and Religion,

Dr. H. Hamner Hill

Dept. of Psychology, Dr. Leslee Pollina

### SCHOOL OF VISUAL AND PERFORMING ARTS,

#### Prof. Rhonda Weller-Stilson, Director

Dept. of Art, Prof. Caroline A. Kahler

Dept. of Music, Dr. Kevin Hampton

The Conservatory of Theatre & Dance, Dr. Kenneth Stilson

### COLLEGE OF SCIENCE, TECHNOLOGY AND AGRICULTURE

#### Dr. Chris W. McGowan, Dean

Department of Agriculture, Dr. Julie Weathers

Dept. of Biology, Dr. James Champine

Dept. of Chemistry, Dr. Philip Crawford

Department of Computer Science, Dr. David Probst

Department of Polytechnic Studies, Dr. Bradley Deken

Dept. of Mathematics, Dr. Tamela Randolph

Dept. of Physics & Engineering Physics, Dr. David Probst

### SCHOOL OF UNIVERSITY STUDIES

#### Dr. Francisco Barrios, Dean

### KENT LIBRARY

#### Ms. Barbara Glackin, Dean

**Ali Abu-Nada (2015)**

Instructor of Physics  
B.S., Applied Science U; M.S., U of Jordan; Southern IL U.

**Janet Adams (2004)**

Instructor of Nursing  
B.A., Beloit College; B.S.N., M.S.N., Southeast MO State U.

**Fred Adjei (2006)**

Asst. Professor 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.

**Nancy Aguinaga (2008)**

Assoc. Professor of Elementary, Early & Special Education  
B.S., M.A., Ph.D., U of Central FL.

**Michael T. Aide (1982)**

Professor of Agriculture  
B.S., U of WI-Platteville; B.S., U of WI-Madison; M.S., Ph.D., MS State U.

**Cheryl Alberternst (2012)**

Instructor of Nursing  
A.A.S., St. Louis CC-Meramec; B.S.N., Southeast MO State U; M.S.N., Regis U.

**Toni A. Alexander (2014)**

Assoc. Professor of Geography  
B.A., CA State U-Stanislaus; M.A., Ph.D., LA State U.

**Alyssa Alger (2015)**

Instructor of Theatre & Dance  
B.A., Mercyhurst College; M.F.A., U of AZ.

**Mohammed H. Ali (1994)**

Professor of Chemistry  
B.S., M.Sc., Dhaka U; M.S., SD State U; Ph.D. U of KS.

**Eshraq Alkhabbaz (2016)**

Recruitment Coordinator/International Education & Services  
M.A., SIT Graduate Institute.

**Maria R. Allen (2014)**

School-wide Positive Behavior Supports Consultant  
B.S., M.A., U of MO-Columbia

**Rickert Althaus (1980)**

Professor of Political Science  
B.S., M.A., Ph.D., U of MO-Columbia.

**Mary Elizabeth Ambery (2000)**

Assoc. Professor of Human Environmental Studies  
B.S., M.Ed., Boston University School of Ed; M.Ed., Salem State College; Ph.D., U of South FL.

**Suhair Amer (2008)**

Assoc. Professor of Computer Science  
B.S., M.S., The American U; Ph.D., Auburn U.

**Vijay Anand (2011)**

Asst. Professor of Computer Science  
B.E., Utkal U; M.S., Ph.D., IL Institute of Technology.

**Catherine Anderson (2016)**

Director of Academic Services/Athletics  
B.A., M.A., Lindenwood U.

**James P. Arnold (2015)**

Asst. Women's Basketball Coach  
B.S., Glenville State College; E.M.B.A., Benedictine College.

**William Atkins, Jr. (2016)**

Training & Development Manager  
B.S., Southeast MO State U; M.A. Webster U.

**Gabrielle Baffoni (2013)**

Asst. Professor of Music  
B.M.E., U of NH; M.M., U of Miami; D.M.A., U of MO-Kansas City

**Candee Baker (2012)**

Instructor of Elementary, Early & Special Education  
B.S.Ed., M.A., Southeast MO State U; Ed.D., AR State U.

**Christopher E. Baldwin (2014)**

Asst. Professor of Political Science  
B.A., Kenyon College; M.A., Ph.D., U of Toronto

**Jeremy D. Ball (2015)**

Professor of Criminal Justice & Sociology  
B.A., J.D., IN U-Indianapolis; Ph.D., U of NE-Omaha.

**Marcy L. Ball (2016)**

Academic Advisor  
B.A., IN U; M.S., Creighton U.

**Trent Ball (1995)**

Assoc. Dean of Students/Director of Student Retention  
B.S., Culver-Stockton College; M.A., Southeast MO State U; St. Louis U.

**Kris Baranovic (2011)**

Instructional Designer  
B.G.S., M.A., Southeast MO State U; Belmont U.

**James H. Barbatti (2008)**

Asst. Director, Show Me Center

**Brady L. Barke (2008)**

Director of Athletics  
B.S., Webster U; J.D., Southern IL U-Carbondale; M.B.A., Southeast MO State U.

**Jeremy Barnes (1996)**

Professor of Health, Human Performance, & Recreation  
B.S., Leeds U; M.S., Ph.D., U of MO-Columbia.

**Monica Barnes (2004)**

Director, TRIO/McNair Scholars Program  
B.S., Murray State U; M.S.Ed., Southern IL U-Carbondale.

**Francisco X. (Frank) Barrios (2008)**

Professor of Psychology  
B.A., St. Louis U; M.A., Ph.D., U of Cincinnati.

**Khaled Bawaneh (2011)**

Asst. Professor of Polytechnic Studies  
B.S., Muta U; M.S., St. Mary's U; Ph.D., Wichita State U.

**Nicole Beaton (2016)**

Instructor of Human Environmental Studies  
B.A., Bryn Mawr College; M.Arch., U of CO.

**Paul Belvin (2006)**

Open Computer Labs Supervisor  
B.S.B.A., M.A., Southeast MO State U.

**Jennifer Bengtson (2012)**

Asst. Professor of Anthropology  
B.A., MN State U-Moorhead; M.A., Ph.D., MI State U.

**Lisa Bertrand (2002)**

Professor Educational Leadership & Counseling  
B.S., Southeast MO State U; M.Ed., U of TX-Tyler; Ed.D., Stephen F. Austin State U.

**G. Elaine Beussink (2009)**

Speech and Language Pathologist  
B.S., M.A., Southeast MO State U.

**Doc Billingsley (2016)**

Instructor of Anthropology  
B.A., Millsaps College; A.M., Ph.D., Washington U.

**Angela Birk (2008)**

Accountant  
B.S.B.A., Southeast MO State U.

**Jaclyn Birks (2015)**

Hall Director  
B.S.B.A., M.A., Southeast MO State U.

**Monica Bixby-Radu (2017)**

Asst. Professor of Criminal Justice & Sociology  
B.A., M.A., Ph.D., NC Central U.

**Marsha Blanchard (2000)**

Director, Southeast MO State U  
- Kennett  
B.S., M.S.S.C., M.A., U of Tulsa; U of  
MO-Columbia; FL State U.

**Xavier L. Bland (2014)**

Teacher/Horizons Enrichment Center  
B.S., M.A., Southeast MO State U.

**Raleigh Blasdell (2013)**

Asst. Professor of Criminal Justice &  
Sociology  
B.A., M.S., IL State U; Ph.D., U of  
South FL.

**Mark E. Blaylock (1999)**

Manager, Systems Analyst/Programmer  
B.S., U of MO-St. Louis.

**Louise Bodenheimer (1992)**

Professor of Art  
B.F.A., M.F.A., M.F.A. (GD), LA Tech  
U; U of New Orleans; LSU.

**R. Larry Bohannon (2007)**

Assoc. Professor of Elementary, Early &  
Special Education  
B.S., Murray State U; M.A., Ed.S.,  
Southeast Mo State U; Ph.D.  
Southern IL U-Carbondale.

**Marcus R. Bond (1994)**

Professor of Chemistry  
B.S. Brigham Young U, Ph.D. WA  
State U.

**Emily Booth (2008)**

Instructor of Art  
B.F.A., VA Commonwealth U; M.F.A.,  
U of DE.

**Steve Borgsmiller (2012)**

Director, Southeast MO State U  
- Sikeston  
B.S., M.A., Southeast MO State U;  
Southern IL U-Carbondale.

**Allan J. Bornstein (1988)**

Professor of Biology  
B.S., M.S., Ph.D., U of MI.

**Wayne H. Bowen (2008)**

Professor of History  
B.A., U of Southern CA; M.A., Ph.D.,  
Northwestern U.

**Bryan Bowers (2007)**

Instructor of Polytechnic Studies  
B.S., U of MO-Rolla; M.S., VA Tech.

**Greg Boyd (1995)**

Professor of Polytechnic Studies  
B.S., U of WA; M.A., CA State-Fresno;  
Ph.D., IN State U.

**Indi S. Braden (2003)**

Professor of Agriculture  
B.S., College of the Ozarks; M.S., U  
of AR-Fayetteville; Ph.D., IA State  
U.

**Scott Brandhorst (2008)**

Instructor of Psychology  
B.A., U of MO-Columbia M.A.,  
Webster U; Psy.D., Forest Institute  
of Professional Psychology.

**Shelba Branscum (1974)**

Professor of Human Environmental  
Studies  
B.S., M.S., OK State U; Ph.D.,  
Southern IL U-Carbondale.

**Dana Branson (2016)**

Instructor of Social Work  
B.S., Southwest Baptist U; M.S.W., U  
of KS; Ph.D., Northcentral U.

**Rebecka Brasso (2015)**

Asst. Professor of Biology  
B.S., Ph.D., U of NC-Wilmington;  
M.S., The College of William &  
Mary.

**William Bratberg (2004)**

Assoc. Professor of Middle and  
Secondary Education  
B.S.Ed., U of WI-Oshkosh; M.S.,  
Ed.D., U of MO-Columbia

**Jessica E. Brethold (2014)**

Academic Advisor  
B.A., B.S., M.A., Southeast MO State  
U.

**Margaret E. Brickhaus (1971)**

Senior Systems Analyst/Programmer  
A.A., B.S.B.A., B.S., Southeast MO  
State U.

**Maria Bridgeman (2013)**

Assistant Registrar  
B.A., Southwest Baptist U.

**Tara Browning (2012)**

IEP Instructional Specialist  
B.A., M.A., Southeast MO State U.

**James Brubaker (2014)**

Asst. Professor of English  
B.S., Bowling Green State U; M.A.,  
Wright State U; Ph.D., OK State U.

**Elizabeth Brucker (2008)**

Director of Business Operations/  
Athletics  
B.S.B.A., Southeast MO State U.

**Jason Bruenderman (2002)**

Library Systems Specialist  
B.S.B.A., M.B.A., Southeast MO State  
U.

**Michelle L. Brune (1997)**

Professor of Human Environmental  
Studies  
B.S., M.S.A., Southeast MO State U;  
Ph.D., UMSL.

**Mike Buck (1999)**

Director, Recreational Services  
B.A., M.S.A., Southeast MO State U.

**Tamara Zellars Buck (2001)**

Assoc. Professor of Mass Media  
B.S., M.S., Southeast MO State U; J.D.,  
U of Memphis.

**Daphne Buerck (2004)**

Human Resources Specialist  
B.S.B.A., Southeast MO State U.

**Linda A. Buerck (1989)**

Assistant Director, Financial Aid Services

**Maggie Buhs (2000)**

Assistant Director, Student Accounts  
B.S., Southeast MO State U.

**Lenny Burford (1996)**

Manager/PC Networks & Maintenance  
B.S., Southeast MO State U.

**Moretta Burk (2016)**

Instructor of Nursing  
B.S.N., M.S.N., Southeast MO State U;  
Capella U.

**Marilyn L. Burleson (2006)**

Instructor of Biology  
B.S.Ed., M.A.T., Southeast MO State  
U.

**Pauletta Burns (2015)**

Academic Advisor/Poplar Bluff  
B.S., M.A., Southeast MO State U.

**Eric Burrow (2014)**

Asst. Football Coach  
B.S., U of MO-Columbia.

**Chelsea Caile (2011)**

Director, Southeast Online  
B.S., M.P.A., Southeast MO State U.

**James Caldwell (2009)**

Assoc. Professor of Management  
B.S., UT Valley U; M.B.A., Willamette  
U; Ph.D., U of Central FL.

**J. David Cameron (1997)**

Professor of History  
B.A., U of NC-Chapel Hill; M.A.,  
U of IL-Champaign; Ph.D., U of  
MN-Twin Cities.

**Caleb Campbell (2016)**

Asst. Women's Volleyball Coach  
B.A., TN Tech U.

**John T. Campbell (1990)**

Instructor of English  
A.A.S., B.S.Ed., M.A., Southeast MO  
State U.

**Vera Campbell-Jones (2013)**

Instructor of Nursing  
B.S.N., M.S.N., Southeast MO State U.

**Natalie Carlyle (2015)**

Parent Educator  
B.S., Hannibal LaGrange U.

**Clyde Carryl (2016)**

Asst. Professor of Polytechnic Studies  
B.S., Howard U; M.S., Ph.D., FL  
Atlantic U.

**Debbie Carter (2013)**

Financial Counselor  
B.S.B.A., Southeast MO State U;  
M.B.A., William Woods U.

**L. Randy Carter (2006)**

Asst. Dean of Students  
B.S.Ed., Pittsburg State U; M.S., Fort  
Hays State U; Ed.D., TX Tech U.

**Sally Carter**

Director of Testing Services  
B.A., Truman State U; M.Ed., U  
of MO-St. Louis; Ed.D., U of  
MO-Columbia.

**Julie Caudle-Antill (2013)**

Science Instruction Specialist/RPDC  
B.S., Southeast MO State U; M.A.,  
Webster U; CO State U; Rhodes  
College.

**Robert Cerchio (2006)**

Asst. Director, School of Visual and  
Performing Arts  
B.S., Southern IL U -Carbondale.

**Charlotte Cervantes (2015)**

Instructor of Human Environmental  
Studies  
B.S., M.B.A., Southeast MO State U.

**Stephanie Chamberlain (1999)**

Professor of English  
B.A., Weber State College; M.A.,  
Ph.D., Purdue U.

**James E. Champine (1995)**

Professor of Biology  
B.S., MI State U; Ph.D., U of MA.

**John Chandler (2010)**

Instructor of History  
B.S.Ed., M.A., Southeast MO State U.

**Megan Chapman (2013)**

Research Analyst  
B.S.B.A., M.B.A., Southeast MO State  
U.

**John W. Cherry (2000)**

Professor of Marketing  
B.F.A., UCLA; M.B.A., Eastern IL U;  
D.B.A., Southern IL U-Carbondale.

**Eu Gene Chin (2016)**

Asst. Professor of Psychology  
B.A., U of NE-Lincoln; M.A., Ph.D.,  
U of MS.

**HJ Cho (2013)**

Asst. Professor of Human Environmental  
Studies  
B.S., M.S., U of MN; Ph.D., U of  
NC-Greensboro.

**Catherine Chou (2014)**

Asst. Professor of Psychology  
B.S., National Chengchi U; M.A.,  
Ph.D., U of CA-Riverside

**Michael Church (2009)**

Instructor of Health, Human  
Performance, & Recreation  
B.S.Ed., M.A., Truman State U.

**Shannon Clapsaddle (2016)**

Asst. Professor of Middle & Secondary  
Education  
B.A., M.A., Ph.D., Southern IL  
U-Carbondale.

**Christopher Clark (2013)**

Hall Director  
B.A., M.A., U of MS.

**Heidi Clark (2014)**

Instructor of Agriculture  
B.S., Southern IL U-Carbondale;  
M.Mgmt., Fontbonne U.

**Henry Clark (2011)**

Instructor of Mathematics  
B.A., M.A., St. Louis U; D.B.S., Glad  
Tidings Biblical College.

**Lisa Clark (2013)**

Instructor of Communication Studies  
B.A., Freed-Hardeman U; M.A., U of  
Memphis

**Eric L. Clements (1999)**

Professor of History  
B.S. CO State U; M.A., U of DE;  
Ph.D., AZ State U.

**Brooke Clubbs (2007)**

Instructor of Communication Studies  
B.S.Ed., Southeast MO State U;  
M.F.A., Western IL U; M.S., U of IL.

**Michael C. Cobb (1996)**

Professor of Physics  
B.S., Pittsburg State U; M.S., Ph.D.,  
U of IA.

**Melissia Coffee (2000)**

Operations Manager/Human Resources  
B.S.B.A., Southeast MO State U.

**Michelle Contrino (2009)**

Instructor of Theatre & Dance  
B.A., AZ State U; M.F.A., TX Woman's  
U.

**Amber Cook (2016)**

Asst. Professor of Theatre & Dance  
M.F.A., MI State U.

**Martha J. Cook (1999)**

Asst. Professor of Communication  
Disorders  
B.A., U of MS; M.A., Southeast  
MO State U; Ph.D., Southern IL  
U-Carbondale.

**Sherry Copeland (2015)**

Asst. Professor of Educational  
Leadership & Counseling  
B.A., U of MO; M.A., Southeast MO  
State U; Ed.S., Ph.D., St. Louis U.

**Mike Cossey (2014)**

Supervisor of Media Services  
B.S., Southeast MO State U.

**Priya Cramer (2013)**

Asst. Director, International Admissions  
B.A., State U of NY-Oneonta; M.B.A.,  
Southeast MO State U; M.A., U of  
Applied Sciences- Schmalkalden

**Philip Crawford (1992)**

Professor of Chemistry  
B.A., U of Indianapolis; M.S., U of  
WI-Milwaukee; Ph.D., Marquette  
U.

**Adam Criblez (2012)**

Asst. Professor of History  
B.A., OH Wesleyan U; M.A., Kent  
State U; Ph.D., Purdue.

**M. Juan Crites (1976)**

Director, Public Services/Publications  
B.S., U of MO-Columbia; M.S.,  
Southern IL U -Carbondale;  
Southeast MO State U.

**Daniel Crocker (2012)**

Asst. Professor of English  
B.A., M.A., Southeast MO State U;  
Ph.D., U of Southern MS.

**Dhira Crunkilton (2006)**

Professor of Social Work  
B.A., Bowling Green State U; M.S.W.,  
AZ State U; Ph.D., U of GA.

**Mishea Culbreath (1996)**

Academic Advisor II  
B.S.B.A., Southeast MO State U.

**Dalton B. Curtis Jr. (1979)**

Professor of History  
B.S.Ed., Ph.D., U of OK; M.A., U of  
RI.

**Gary J. Cwick (1988)**

Professor of Geosciences  
B.A., SUNY-Buffalo; M.A., Ball State  
U; Ph.D., IN State U.

**Simin L. Cwick (1989)**

Professor of Middle & Secondary  
Education  
B.S., Tehran U; M.S., Saint Francis  
College; Ed.D., Ball State U.

**Margaret Dalton (1996)**

Assoc. Professor of Educational  
Leadership & Counseling  
B.A., Southern Methodist U; M.A.,  
Stephen Austin State U; Ph.D.,  
Florida State U.

**Daniel Daly (2009)**

Assoc. Professor of Mathematics  
B.S., M.S., Ph.D., U of Denver.

**Alison Whiteford Damerall (2014)**  
Asst. Professor of Psychology  
B.A., Truman State U; B.A., U of MO;  
M.A., U of CO-Boulder

**Dana Daniel (2002)**  
Academic Advisor  
B.S., M.A., Southeast MO State U.

**Jon Davenport (2014)**  
Asst. Professor of Biology  
B.A., Maryville College; M.S., Austin  
Peay State U; Ph.D., East Carolina  
U.

**Floyd Davenport (2016)**  
Asst. Vice President for Information  
Technology  
B.S., Southeast MO State U; M.S., TX  
A&M U.

**Robbie Davis (2011)**  
Instructor of Polytechnic Studies  
B.S., M.S., Southeast MO State U.

**Susan Davis (2014)**  
Asst. Professor of Elementary, Early &  
Special Education  
B.S.Ed., M.S.Ed., AR State U; Ph.D., U  
of AR-Fayetteville.

**Tammy Davis (2002)**  
Instructor of Human Environmental  
Studies  
B.S., M.S., Southern IL U -Carbondale.

**Brooke DeArman (2012)**  
International Student Counselor  
B.M., M.A., Southeast MO State  
U; M.M., OK City U; U of  
MO-Columbia.

**Sharon Dees (2003)**  
Asst. Professor of Elementary, Early &  
Special Education  
B.S., Southeast MO State U;  
M.A., Webster U; Ed.D., U of  
MO-Columbia.

**Paul Deiermann (2000)**  
Assoc. Professor of Mathematics  
B.A., B.S., U of MO-St. Louis; Ph.D.,  
Washington U.

**Bradley Deken (2007)**  
Professor of Polytechnic Studies  
B.S., M.S., U of MO-Rolla; Ph.D.,  
Purdue U.

**Laura E. Delgado (2002)**  
Instructor of Psychology  
B.A., M.A., Southern IL U  
-Carbondale.

**Emily Denlinger (2009)**  
Assoc. Professor of Art  
B.F.A., Bowling Green State U; M.A.,  
M.F.A., MD Institute College of Art.

**Michael Devaney (1988)**  
Professor of Finance  
B.B.A., M.A., U of Memphis; Ph.D.,  
U of AR.

**Kevin E. Dickson (2003)**  
Professor of Management  
B.A., M.O.B., Brigham Young U;  
Ph.D., U of TX-Austin.

**Benjamin Dow (2004)**  
Professor of Finance  
B.S., Bucknell; M.B.A., Ph.D., U of  
AR.

**Garrett Downing (2016)**  
Hall Director  
B.S., Southeast MO State U; M.A., MI  
State U.

**John Dudley (2007)**  
Instructor of Polytechnic Studies  
B.S., M.S., Southeast MO State U;  
Ed.D., U of MO.

**James J. Dufek (1983)**  
Professor of Mass Media  
B.A., Mt. Marty College; M.A., U  
of SD; Ph.D., Southern IL U  
-Carbondale.

**Gwendolyn Duncan (1987)**  
Coordinator, Administrative Operations  
B.S.B.A., M.A., Southeast MO State U;  
U of NE.

**Roxanne Dunn (2014)**  
Instructor, Kent Library  
B.S., M.S., M.S.L.I.S., U of  
IL-Urbana-Champaign

**Beth Easter (2002)**  
Assoc. Professor of Health, Human  
Performance, & Recreation  
B.S., Ph.D., U of KS; M.A., Grace  
Theological Seminary.

**Gabriele Eckart (1999)**  
Professor of Foreign Languages and  
Middle & Secondary Education  
Staatsexamen, Humboldt U; M.A., U  
of TX; Ph.D., U of MN.

**Philip Edgcombe (2011)**  
Instructor of Theatre & Dance  
B.A., U of NV-Las Vegas; M.F.A., U  
of AZ.

**Sara A. Edgerton (1991)**  
Professor of Music  
B.M., Eastman School of Music; M.A.,  
D.M.A., Cornell U.

**Amanda Eller (2000)**  
Coordinator, Center for Academic  
Advising-North  
B.S., M.S., Southeast MO State U.

**Ben Eller (2011)**  
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MI U.

**Kevin Sexton (2007)**

Instructor of Political Science  
B.S.Ed., M.S.A., Southeast MO State  
U.

**Shahrokh M. Shafaie (1990)**

Professor of Human Environmental  
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B.A., Pars Coll, Tehran, Iran; M.A.,  
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**Patty Sharp (2008)**

Instructor of Political Science  
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U.

**Joanna Shaver (2001)**

Coordinator of Campus Programming  
B.S., M.P.A., Southeast MO State U;  
KS State U.

**Alyssa Shetley (2014)**

Admissions Counselor  
B.S., Delta State U M.A., Southeast  
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**Linda K. Shirrell (2004)**

Nurse

**Jason Sides (2015)**

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B.A., Kent State U; M.A.P., U of  
Akron; Ph.D., FL State U.

**Mary Siebert (1991)**

Testing Associate  
B.G.S., Southeast MO State U.

**Dustin Siegel (2011)**

Assoc. Professor of Biology  
B.S., Kent State U; M.S., Southeastern  
LA U; Ph.D., St. Louis U.

**Chad Sierman (2007)**

Asst. Director, Aquatics  
B.S., M.P.A., Southeast MO State U;  
Southern IL U-Carbondale.

**Michael Simmons (2010)**

Instructor of Mass Media  
B.S.B.A., Southeast MO State U;  
M.B.A., Aspen U.

**Nikki Simon (2014)**

Data Specialist/University Advancement  
B.S.B.A., M.B.A., Southeast MO State  
U.

**Pradeep Singh (2002)**

Professor of Mathematics  
B.S., Kurukshetra U; M.S., Haryana  
Ag U; Ph.D., MS State U.

**Bruce Skinner (1999)**

Asst. Vice President for Student Success  
and Auxiliary Services  
B.S., M.S.A., Southeast MO State U;  
Ed.D., U of MO-Columbia; U of  
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**Kendra Skinner (2004)**

Director of Residence Life  
B.A., IA Wesleyan College; M.S., IA  
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**Annette Slattery (2008)**

Instructor of Health, Human  
Performance, & Recreation  
B.S., M.A.T., Southeast MO State U.

**DeAnte Smith (2013)**

Director of Greek Life  
B.S., M.A., U of Southern MS.

**Katherine Ellinger Smith (1991)**

Professor of Art  
B.A., St. Cloud State U; M.F.A., MI  
State U.

**Kristal Smith (2016)**

Admissions Counselor  
B.S., Southeast MO State U; M.Ed.,  
Lindenwood U.

**Robin Smith (2013)**

Instructor of Middle and Secondary  
Education  
B.S., U of AK; M.S., Southeast MO  
State U.

**Shonta Smith (2009)**

Asst. Professor of Elementary, Early &  
Special Education  
B.S., Harris-Stowe State U; M.Ed., U  
of MO-St. Louis; Ed.D. St. Louis U.

**Tiffiney Smith (2008)**

Special Education Compliance  
Consultant  
B.S., M.A., Southeast MO State U.

**Travis Smith (2009)**

Assoc. Professor of Educational  
Leadership & Counseling  
B.A., UT Valley U; M.A., Ph.D., ID  
State U.

**Kristen Sobba (2017)**

Asst. Professor of Criminal Justice &  
Sociology  
B.S., U of Central AR; M.A., U of  
AR-Little Rock.

**Seidu Sofo (2002)**

Professor of Health, Human  
Performance, & Recreation  
B.Ed., U of Cape Coast; M.S.Ed.,  
SUNY-Brockport; Ph.D., U of AL.

**Sean Spinks (2013)**

Retention Coordinator  
B.S., M.P.A., Southeast MO State U.

**Donna St. Sauver (2015)**

Coordinator/Campus Violence  
Prevention Program  
B.J., U of MO-Columbia; M.A., Ed.S.,  
Southeast MO State U.

**David Stader (2009)**

Professor of Educational Leadership &  
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B.S., M.A., Ed.S., Southeast MO State  
U; Ed.D., St. Louis U.

**Sara Starbuck (2007)**

Assoc. Professor of Human Environmental Studies  
B.S., M.S., Southern IL U -Carbondale;  
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**Evan Starr (2013)**

Web Specialist  
B.S., Southeast MO State U.

**Sean Stevenson (2013)**

Asst. Sports Information Director  
B.S., Southeast MO State U.

**Angela K. Stiegemeyer (2006)**

Instructor of Human Environmental Studies  
B.S.N., M.A., Southeast MO State U.

**Kenneth L. Stilson (2001)**

Professor of Theatre & Dance  
B.A., Southeast MO State U; M.A.,  
Ph.D., - U of MO-Columbia

**Lorreen Stinnett (2011)**

Instructor of Nursing  
A.D.N., Park College; B.S.N.,  
Southeast MO State U.; M.S.N.-  
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**Leann K. Stinson (2008)**

Human Resources Specialist  
B.S.B.A., M.S., Southeast MO State U.

**Sara Stovall (2009)**

Teacher/Horizons Enrichment Center  
B.S., Southeast MO State U.

**Karie Stroder (2004)**

Academic Advisor  
A.A., Springfield College; B.A.,  
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**Karl Suhr (1999)**

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B.A., Concordia College; M.S.L.S., N.  
TX State U.

**Rebecca M. Summary (1983)**

Professor of Economics  
B.A., M.A., E IL U; M.S., Ph.D., U  
of IL.

**Sven Svenson (2008)**

Assoc. Professor of Agriculture  
B.S., CA State U; M.S., U of TN;  
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**Mary Harriet Talbut (2004)**

Senior Instructional Designer  
B.S., Ed.S., U of MO-Columbia; M.A.,  
Southeast MO State U.

**Francis Tayie (2015)**

Asst. Professor of Human Environmental Studies  
B.S., M.Phil., U of Ghana; M.S., IA  
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**Carrie Lynn Taylor (2012)**

Asst. Director/International Student Services  
B.G.S., Southeast MO State U.

**Lauralee H. Taylor (1989)**

Manager, Textbook Rental  
B.S., Southeast MO State U.

**Michael S. Taylor (2006)**

Professor of Biology  
B.S., Central MO State U; Ph.D., LA  
State U.

**Rachel Morgan Theall (2007)**

Assoc. Professor of Chemistry  
B.S., Truman State U; Ph.D., AZ State  
U.

**Nicholas J. Thiele (2012)**

Director, Southeast MO State U  
- Malden  
B.S., Ed.S., Southeast MO State U;  
M.Ed., U of MO-Columbia; Ed.D.,  
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**Andrea Thompson (2014)**

Online Programs Specialist/Southeast  
Online  
B.A., U of MO-Columbia; M.A.,  
Southeast MO State U.

**Emmanuel Thompson (2013)**

Asst. Professor of Mathematics  
B.S., U of Cape Coast, Ghana; M.S.,  
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**Jeremy Thompson (2014)**

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**Paul Thompson (1991)**

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G.L.C.M., London College of Music;  
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**Caroline Thornburgh (2012)**

Instructor of Mathematics  
B.S.Ed., M.A., Southeast MO State U.

**Scott Thorne (1999)**

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B.S., Truman State U; M.B.A., Ph.D.,  
Southern IL U-Carbondale.

**Kristi Thurman (2015)**

Manager/Systems & Research  
B.G.S., Southeast MO State U.

**Mohan Tikoo (1984)**

Professor of Mathematics  
B.A., M.A., U of Kashmir, India; M.A.,  
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**J. Andrew Tilmon (2016)**

Coordinator, Career Planning  
B.S.Ed., M.A., Southeast MO State U.

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**Molly Timlin (2008)**

Assoc. Professor of Human Environmental Studies  
B.S., M.S., Ph.D., U of MN-Twin  
Cities.

**Julie Tipton (2014)**

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**Jingjing Tong (2014)**

Asst. Professor of Polytechnic Studies  
B.S., Dalian Maritime U; M.S., Cardiff  
U; Ph.D., U of AR.

**Chloe Tubbs (2015)**

Alumni Services & Events Coordinator  
B.S.B.A., M.A., Southeast MO State U.

**Karen Tucker (2000)**

Academic Advisor, Southeast MO State  
U-Kennett  
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**Julie Twidwell (2014)**

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A.D.N., Park College; B.S.N.,  
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**Gary Wayne Tyler (2008)**

Mobile Learning Center Outreach  
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B.A., Central Bible College; B.S.,  
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Assemblies of God Theological  
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**Irina P. Ustinova (2006)**

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**Darcy Uzoaru (2004)**

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**Alissa Vandeven (1996)**

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U.

**Gangaraju Vanteddu (2009)**

Assoc. Professor of Quantitative  
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B. Tech., Sri Venkateswara U; M.  
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**Pamela Vargas (2015)**

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B.A., M.B.A., U of Notre Dame.

**Anthony Varnon (1979)**

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**Jolon Vaughn (2014)**

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**Rebecca Vetter (2005)**

Business Manager, Show Me Center  
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**Jason Waggoner (2010)**

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B.S., M.S., Southeast MO State U; Ph.D., U of NC-Greensboro.

**Sara Waggoner (2014)**

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**Holly Wagner (2016)**

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**Amanda Walker (2013)**

Project Manager  
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**Karen M. Walker (1978)**

Director, Financial Aid Services  
B.S., Southeast MO State U.

**Joshua Waller (2012)**

Systems Analyst/Programmer  
B.S., Southeast MO State U.

**Breanna Walling (2003)**

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**Jeremy Walling (2002)**

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**Melanie Walters (2009)**

Instructor of English  
A.A., Kaskaskia College; B.A., McKendree U; M.A., Southern IL U-Carbondale.

**Kim Waltrip (2016)**

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B.S.N., Southeast MO State U; M.S.N., Vanderbilt U; U of MO-St. Louis.

**Haohao Wang (2003)**

Professor of Mathematics  
B.S., Beijing Engineering Institute; M.Ed., Harding U; M.S., Ph.D., LA State U.

**Shaojun Wang (2001)**

Professor of Polytechnic Studies  
B.S., M.S., Huazhong U of Science & Technology; M.S., Ph.D., LA State U.

**Shu-Chan Wang-McGrath (2012)**

Instructor of Foreign Languages  
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**Janice Ward (2004)**

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**Christine Warren (2009)**

Instructor of English and Middle & Secondary Education  
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**Paul Watkins (2002)**

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B.S., M.S., Southeast MO State U; Ed.S., St. Louis U.

**Julie Weathers (2010)**

Professor of Agriculture  
B.S., M.S., Ph.D., TX Tech U.

**Lisa C. Webb (1999)**

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B.S.B.A., M.S.A., Southeast MO State U.

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B.S., M.S., East Carolina U; Ph.D., U of CA-Irvine.

**William L. Weber (1986)**

Professor of Economics  
B.S., Central Methodist College; M.A., Appalachian State U; Ph.D., Southern IL U.

**Jennifer Weiss (2007)**

Coordinator/Center for Writing Excellence  
B.S., M.A., Southeast MO State U.

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Instructor of University Studies  
B.S.Ed., Southeast MO State U; M.S., MO Baptist U.

**Michele Welker (2011)**

Consumer Educator  
B.S., M.A., Southeast MO State U.

**Rhonda C. Weller-Stilson (2001)**

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B.A., Southeast MO State U; M.A., U of MO-Columbia; M.F.A., Tulane U.

**Roxanne Wellington (2014)**

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B.F.A., Wright State U; M.F.A., Wayne State U.

**Tonya Wells (2005)**

Assoc. Director, Marketing & Digital Media  
B.S., Murray State U; M.A., Southeast MO State U.

**Keith S. Wheeler (2010)**

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**Melanie Whitener-Needling (2007)**

Resource Specialist/Professional Learning Communities  
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**Roseanna Whitlow-Greenwood (1979)**

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**Jon Wiemers (2014)**

Asst. Football Coach  
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**Victor Wilburn (2008)**

Professor of Human Environmental Studies  
B.S., TN State U; M.S., Ph.D., U of TN.

**David Wilde (1996)**

Manager, Computer Systems  
B.S., Southeast MO State U.

**Susan T. Wilde (1997)**

Budget Director  
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**Judy Wiles (1985)**

Professor of Marketing  
B.S.B.A., M.B.A., Southeast MO State U; D.B.A., U of Memphis.

**Nicolas Wilkins (2013)**

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B.A., U of MT; M.A., Ph.D., Kent State U.

**Bart Williams (2013)**

Asst. Professor of Theatre and Dance  
B.A., Bradley U; M.F.A., Wayne State U; M.A., Liverpool Institute of Performing Arts; M. Perf., Royal Conservatoire of Scotland.

**Glen Williams (1998)**

Professor of Communication Studies  
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**Todd Williams (2012)**

Help Desk Supervisor  
B.S., U of TN-Martin.

**Lonnie Williford (2000)**

Supervisor, Custodial Services  
B.S.B.A., Southeast MO State U.

**Patricia Townsley Willingham (1977)**

Assoc. Professor, Kent Library  
B.A., Brigham Young U; M.Ed., UT  
State U; M.L.S., Emporia State U.

**Jacqueline Wilson (2015)**

Asst. Professor of Music  
B.M. Eastern WA U; M.M., Boston U;  
D.M.A., U of IA.

**Shelly Windeknecht (2005)**

Project Manager  
B.G.S., Southeast MO State U.

**Alexandria Wisker (2011)**

Area Coordinator  
B.A., M.A., M.S., State U of  
NY-Albany.

**Hilary Wittenborn (2016)**

Academic Services Asst./Athletics  
B.A., M.P.A., Southern IL  
U-Carbondale.

**Jerzy Wojdylo (1998)**

Assoc. Professor of Mathematics  
M.S., UMK, Torun, Poland; Ph.D., IA  
State U.

**Jay Wolz (2012)**

Director of Alumni Services  
B.S., Southeast MO State U; M.B.A.,  
Washington U.

**Diane L. Wood (2003)**

Professor of Biology  
B.S., M.S., Southern IL U; Ph.D., U of  
MO-Columbia

**Amanda Woods (2013)**

Outreach Coordinator/ Military &  
Veterans Services  
B.A., Southeast MO State U.

**Danny J. Woods (1996)**

General Manager, KRCU  
B.S., Southeast MO State U.

**Shauna Wight (2015)**

Asst. Professor of English  
B.S., UT State U; M.A., U of UT;  
Ph.D., U of NH.

**Chen Wu (2015)**

Asst. Professor Economics  
B.A., M.A., Zhejiang Gongshang U;  
M.A., Ph.D., U of MS.

**Chris Wubben (2007)**

Professor of Art  
B.F.A., U of Northern IA; M.F.A., San  
Francisco State U.

**Yanping Xia (2008)**

Assoc. Professor of Mathematics  
B.S., Chengdu U of IT; M.S., Ph.D., U  
of LA-Lafayette.

**Julie Yankus (2011)**

Head Volleyball Coach  
B.S., U of WI-Milwaukee; M.S., GA  
State U.

**David Yaskewich (2012)**

Asst. Professor of Economics  
B.A., Susquehanna U; M.S., IA State  
U; M.S., Ph.D., U of KY.

**Jill Young (2002)**

Instructor of Management Information  
Systems  
B.S., U of San Francisco; M.S., U of  
Santa Clara.

**Matthew Yount (2005)**

Instructor of Music  
B.S., B.M., M.M.E., Southeast MO  
State U.

**Valdis Zalite (2006)**

Director, Student Support Services  
A.A., Three Rivers Community  
College; B.S., M.A., Southeast MO  
State U.

**Deqi Zen (2000)**

Professor of English  
B.A., Sichuan Normal U; M.A., M.Ed.,  
Ph.D., Ohio U.

**Xuesong Zhang (2000)**

Professor of Computer Science  
B.S., Jilin Polytechnic U; M.S.,  
Northeast Normal U; M.S., Ph.D.,  
Southern IL U-Carbondale.

**Yumin Zhang (2007)**

Assoc. Professor of Physics  
B.A., Tsinghua U; M.S., Zhejiang U;  
M.S., Ph.D., U of MN.

**Qin Zhong (2008)**

Senior Systems Analyst/Programmer  
B.S., Zhejiang U; M.S. U of St.  
Thomas; M.S., OK State U.

**Min Zou (2000)**

Asst. Professor of Elementary, Early &  
Special Education  
B.A., M.A., Shangai Teachers' U; M.A.,  
U of AZ; Ed.D., IN U of PA.

**EMERITI**

**Mangho Ahuja (1968-2000)**

Professor Emeritus of Mathematics

**Roger Arpin (1979-2013)**

Assistant Professor Emeritus of English

**Douglas Atwood (1975-2014)**

Associate Professor Emeritus of  
Psychology

**Henry Azuma (1973-2005)**

Associate Professor Emeritus of Criminal  
Justice and Sociology

**Tamara Kay Baldwin (1983-2012)**

Professor Emerita of Mass Media

**Julia A. Banks (1985-2012)**

Professor Emerita of Kent Library

**Jean E. Benton (1987-2016)**

Professor Emerita of Education

**Peter J. Bergerson (1968-2002)**

Professor Emeritus of Political Science

**John C. Bierk (1957-1987)**

Professor Emeritus of English

**Samuel E. Bishop (1968-2006)**

Professor Emeritus of Art

**K. Richard Blankenship (1965-1992)**

Professor Emeritus of Elementary and  
Special Education

**Charles Bonwell (1968-1993)**

Professor Emeritus of History

**Leon C. Book (1972-2010)**

Director and Professor Emeritus of First-  
Year Experience

**Alton Bray (1943-1984)**

Registrar Emeritus

**Robert Briner (1971-2003)**

Director Emeritus of Regional Crime Lab

**Michael F. Brown (1976-2010)**

Professor and Interim Chair Emeritus of  
Criminal Justice and Sociology

**Phillips H. Brown (1961-1986)**

Associate Professor Emeritus of  
Economics

**Gene R. Brunkhorst (1968-2008)**

Assistant Professor Emeritus of  
Educational Leadership and  
Counseling

**Robert Buchanan (1997-2009)**

Professor Emeritus of Educational  
Leadership and Counseling

**James Buckenmeyer (1982-2003)**

Professor Emeritus of Management and  
Marketing

**Linda Bugle (1977-1978; 1982-2011)**  
Professor Emerita of Nursing

**Edmund Buis (1986-2010)**  
Associate Professor of Library Science  
and Director Emeritus of Kent  
Library

**Fred Mark Burnett (1972-1997)**  
Professor Emeritus of Art

**Linda Burns (1968-2001)**  
Professor Emerita of English

**Richard A. Burns (1992-2013)**  
Professor Emeritus of Psychology

**Richard Cannon (1971-2000)**  
Associate Professor Emeritus of Physics

**Clark Choffy (1961-1990)**  
Professor Emeritus of Political Science

**Frank Chong (1968-2003)**  
Professor Emeritus of Accounting and  
Management Information Systems

**Lawrence Clark (1977-2015)**  
Professor Emeritus of Psychology

**Ronald Clayton (1988-2012)**  
Professor Emeritus of Art

**John Coleman (1967-2001)**  
Professor Emeritus of History

**Sharon Coleman (1986-2007)**  
Professor Emerita of Chemistry

**Kathleen Conway (1988; 1989-1992;  
1997-2010)**  
Professor Emerita of Elementary, Early  
and Special Education

**Sterling Cossaboom (1988-2005)**  
Professor Emeritus of Music

**George Counts (1967-1997)**  
Professor Emeritus of Educational  
Administration and Counseling

**Ada L. Cruce (1976-1997)**  
Professor Emerita of Educational  
Administration and Counseling

**Beverly Cutsinger (1972-2000)**  
Manager Emerita of Student Receivables

**Jai Dahiya (1984-2014)**  
Professor Emeritus of Physics and  
Engineering Physics

**Mabel H. Daugherty (1967-1991)**  
Associate Professor Emerita of Human  
Environmental Studies

**F. Greg Dickey (1965-1988)**  
Professor Emeritus of Educational  
Administration and Counseling

**Robert Dillon, Jr. (1989-2013)**  
Professor Emeritus of Theatre & Dance

**Jeanine Dobbins (1992-2009)**  
Founder and Director Emerita of  
Missouri Statewide Early Literacy  
Intervention Program

**Bruce Domazlicky (1986-2013)**  
Professor Emeritus of Economics and  
Finance

**Alberta Dougan (1972-2006)**  
Professor Emerita of History

**H. Max Drake (1983-1998)**  
Professor Emeritus of Sociology and  
Anthropology

**Anthony Duben (1983-2005)**  
Professor Emeritus of Computer Science

**Doyle Dumas (1957-1988)**  
Professor Emeritus of Music

**Jody Anne Dunham-Trautwein  
(1975-2007)**  
Associate Professor Emerita of  
Elementary, Early and Special  
Education

**Darlene Dunning (1975-2005)**  
Professor Emerita of Management and  
Marketing

**Larry Easley (1967-2007)**  
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**William R. Eddleman (1995-2015)**  
Professor Emeritus of Biology

**Johnson Egbert (1984-2011)**  
Associate Professor Emeritus of Music

**William Ellis (1979-2010)**  
Professor Emeritus of Agriculture

**William Etting (1969-2000)**  
Associate Professor Emeritus of  
Mathematics

**Wayne Ewbank (1968-1997)**  
Professor Emeritus of Economics

**Ray G. Ewing (1983-2002)**  
Professor Emeritus of Communication

**Lane Fabrick (1976-2006)**  
Professor Emeritus of Art

**Ernest K. Farmer (1967-1996)**  
Associate Professor Emeritus of History

**Roy Farris (1974-2004)**  
Professor Emeritus of Management and  
Marketing

**Kathryn Farwell (1994-2012)**  
Professor Emerita of Nursing

**Phillip Finney (1976-2011)**  
Professor Emeritus of Psychology

**Robert Foster (1967-1991)**  
Executive Vice President Emeritus

**Christina Frazier (1979-2014)**  
Professor Emerita of Biology

**Donald H. Froemsdorf (1960-1990)**  
Dean Emeritus, College of Science and  
Technology  
Professor Emeritus of Chemistry

**Betty Fulton (1968-1997)**  
Professor Emerita of Economics

**Deborah Fulton (1976-2013)**  
Executive Associate to the President and  
Secretary to the Board of Regents  
Emerita

**Jacob Gaskins (1978-2012)**  
Professor Emeritus of English

**Mitchel Gerber (1989-2013)**  
Professor Emeritus of Political Science

**Ann Gifford (1991-2004, 2005-2008)**  
Professor Emerita of Elementary, Early  
and Special Education

**Robert Gifford (1981-2003)**  
Professor Emeritus of Music

**Jack R. Gosnell (1966-1997)**  
Assistant Professor Emeritus of  
Mathematics

**Robert Grayson (1958-1988)**  
Professor Emeritus of English

**Victor Gummersheimer (1976-2009)**  
Professor and Chair Emeritus of  
Mathematics

**Harold W. Hager (1957-1995)**  
Professor Emeritus of Mathematics

**William F. Halcomb (1960-1985)**  
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**Charles Hall (1965-1983)**  
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**Robert Hamblin (1965-2013)**  
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**Doris Hamer (1965-1968; 1970-1993)**  
Professor Emerita of Secondary  
Education

**Larry R. Hamilton (1966-2002)**  
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**Fern Harris (1967-1986)**  
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Education and Office Administration

**Tom Harte (1966-2000)**  
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Communication and Theatre

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