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Campus Maps ........................................siue.edu (click Maps & Directions)

Accreditation

Southern Illinois University Edwardsville is accredited by The Higher Learning Commission (HLC). The University maintains accreditation through the Open Pathway with HLC. Many of SIUE’s departments and schools are accredited by professional agencies, including the following:

Accreditation Board for Engineering and Technology  
Accreditation Council for Pharmacy Education  
Accrediting Council on Education in Journalism and Mass Communications  
American Council for Construction Education  
American Dental Association Commission on Dental Accreditation  
Association to Advance Collegiate Schools of Business-International  
Commission on Accreditation of Allied Health Education Programs  
Commission on Collegiate Nursing Education  

Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association  
Council on Accreditation of Nurse Anesthesia Educational Programs  
Council on Education for Public Health  
Council on Social Work Education  
National Association of Schools of Art and Design  
National Association of Schools of Music  
National Association of Schools of Theater  
National Council for Accreditation of Teacher Education  
Network of Schools of Public Policy, Affairs, and Administration

In addition, the American Art Therapy Association, American Chemical Society, and National Association of School Psychologists have formally reviewed and approved SIUE’s programs as meeting their standards.

Disclaimer

This catalog represents all courses and requirements in effect at the time of its publication. Subsequent to its publication, the University may find it necessary to make changes to courses, curriculum, tuition, fees or other details herein. The Board of Trustees of Southern Illinois University, its respective officers and agents reserve the right to modify, add or delete courses, information and/or requirements contained herein without prior notice.

This catalog is not a contract, nor does it provide any contractual rights to the courses or benefits stated herein. If you have a question about a course and/or requirement within this catalog, please contact the Office of the Registrar and/or the Office of Admissions of the University to obtain current information about courses of interest.
Welcome to the University

On behalf of the faculty and staff of Southern Illinois University Edwardsville, welcome and congratulations on having chosen SIUE for your college experience. SIUE is listed for the fourteenth consecutive year among the best Regional Universities Midwest by *U.S. News & World Report* and has so much to offer — from quality faculty and academic programs to a wide variety of extracurricular activities and special events. SIUE is also ranked first for research expenditures among “Emerging Institutions in the Midwest” by the National Science Foundation and received the 2017 Higher Education Excellence in Diversity (HEED) award from *INSIGHT Into Diversity* magazine for the fourth consecutive year.

At SIUE, you will receive an outstanding education in your field of study. A significant number of our programs are accredited by their national divisions, and all are founded on the University’s mission, vision, values and diversity statement, as well as its long-term goals. These documents are found in the following pages and warrant your attention, because they serve as our governing principles.

In addition to focusing on your academic studies, be sure to take advantage of the many opportunities available to you for extracurricular activities. With more than 300 student organizations from which to choose, you can participate in intellectual, artistic, leadership, athletic or social activities—or any combination of these—and create for yourself a unique and rewarding college experience. Also, SIUE is a member of NCAA Division I athletics, eligible for post-season play and offering highly competitive and exciting contests. These activities are all a significant part of your education and an excellent way to build character, friendships, interests and great memories.

Our faculty and staff are here to help you make the most of your time at SIUE. Don’t hesitate to ask for what you need, and be sure to take full advantage of the activities, both academic and extracurricular, that will assist in your growth as you help us to achieve our mission to “shape a changing world.”

I wish you all the best for a very successful college experience. Your investment in SIUE will offer you great rewards!

Go Cougars!

Randall G. Pembrook
Chancellor
Schedule a Campus Visit
Campus visits, including a guided walking tour of campus, are offered Monday – Friday at various times during the day throughout the year and on select Saturdays. Campus visits take about two hours. Your visit will begin in the Office of Admissions with a 30-minute presentation by one of our Admission Counselors. A one-hour walking tour of campus by one of our student Tour Ambassadors will follow the presentation. For a complete schedule of available dates and to schedule an appointment, visit siue.edu/visit, or call 800-447-SIUE or 618-650-3705.

The Office of Admissions is on the second floor of Rendleman Hall, Room 2101.

Catalogs and Class Schedules
SIUE publishes annual undergraduate and graduate catalogs and fall, spring and summer class schedules. The undergraduate catalog provides information about academic programs; class schedules provide information about courses offered each term.

Course catalogs and class schedules are available online at siue.edu/registrar.

FALL 2018
August 20 Fall classes begin
August 25 Weekend classes begin
September 3 Labor Day holiday
November 19-25 Thanksgiving break holiday
December 10-14 Final exams
December 15 Commencement

Note: No weekend classes September 1-2 and November 24-25. Final exams for weekend classes are December 8 following the last class session.

SUMMER 2019
May 13 May Session begins
May 31 May Session ends
May 27 Memorial Day holiday
June 3 Summer Term begins
June 8 Weekend classes begin
July 4 Independence Day holiday
August 10 Summer Term ends

SPRING 2019
December 17 Winter Session begins
January 6 Winter Session ends
January 14 Spring classes begin
January 19 Weekend classes begin
January 21 Martin Luther King, Jr. Holiday
March 11-17 Break week
May 6-10 Final exams
May 10 & 11 Commencement

Note: No weekend classes March 16-17 and April 20-21. Final Exams for weekend classes are May 4 following the last class session.
SIUE Overview

Southern Illinois University Edwardsville traces its origin to a recommendation in 1956 by the Southwest Illinois Council for Higher Education. The council was convinced that higher education facilities were needed in the Metro East part of the greater St. Louis area. Council members hired consultants, whose reports documented that need, and appealed to Southern Illinois University, 100 miles south, to establish satellite campuses. In 1957, SIU opened two “residence centers” in Alton and East St. Louis. The University expected to enroll 800 students; 1,900 applied. By 1959, the number of students had doubled to 3,800, greatly exceeding the physical facilities and demanding services faster than the University could develop and supply them. A planning team investigated sites in the Metro East and selected one just south of Edwardsville. In 1960, the Illinois legislature authorized a bond issue for construction of a new state university campus. Voter approval came in November 1960. After two and a half years of planning, University officials and area residents attended ground-breaking ceremonies for the first permanent buildings. In fall 1965, SIUE moved onto its new campus: 2,660 acres of rolling land and woods and waters. Much of the land still retains its natural shape. The academic center was designed by the internationally known architectural firm of Hellmuth, Obata and Kassabaum of St. Louis. The brick, slate and granite of the contemporary buildings complement the terrain and are softened by a carefully designed garden landscape that attracts visitors by its physical beauty. The campus has received several awards for its successful blend of the aesthetic and the functional in a setting that enhances growth and development and is now featured among the top 150 Illinois Great Places by the American Institute of Architects Illinois Council.

Today, SIUE is a premier Metropolitan University with nearly 14,000 students enrolled. SIUE is a fully accredited public institution, beautifully situated in Edwardsville just 25 miles from St. Louis. The University awards degrees in undergraduate and graduate programs encompassing the arts and sciences, nursing, education, health, human behavior, business and engineering. The Schools of Dental Medicine and Pharmacy award first-professional doctoral degrees in dental medicine (DMD) and pharmacy (PharmD). Doctoral programs are available in nursing practice and educational leadership. Cooperative PhD programs in history, environmental resources and policy, engineering science, and computer science are offered with SIU Carbondale. The Edwardsville campus is supplemented by campuses in East St. Louis and Alton.

While attending SIUE, students may choose to live on campus, in nearby communities, or at home. Academic scheduling is designed to accommodate individual student needs through the availability of weekday, evening and weekend classes. In every format, SIUE students are assured quality instruction. But at SIUE, education is more than classroom learning. Campus activities present students with an ever-changing spectrum of cultural, social, service and recreational experiences designed to complement the academic programs. Theater and dance productions, musical presentations: art collections: renowned speakers and artists: and swimming, biking and other recreational opportunities make SIUE an exciting place to live and learn. In addition, the campus is situated in a suburban area with access to the resources of the St. Louis area. SIUE is an NCAA Division I member of the Ohio Valley Conference, as well as the Mid-American Conference (MAC) as affiliate members in the sports of men’s soccer and wrestling.

At SIUE, more than 950 faculty members engage in instruction, research and public service. Though each of these activities enhances students’ academic opportunities, it is through instruction that students benefit most directly. Eighty percent of the faculty possess terminal degrees earned at universities in the United States and abroad. In 2017, SIUE faculty and staff received 181 grants and contracts, totaling over $19.9 million in new externally sponsored research and public service awards. The University also emphasizes the instructional responsibilities of the faculty. Faculty are listed in this catalog in their respective disciplines.

SIUE offers a broad range of quality educational experiences at affordable tuition rates, an architecturally distinguished campus, the tranquility of suburban life, and access to the excitement of a major American city. All of these factors contribute to the quality of educational opportunities at SIUE and make student experiences here everything education should be.
Location
SIUE serves the most populous region of downstate Illinois. The campus is centrally located in the eastern metropolitan St. Louis area; most SIUE students live and work in the industrial and agricultural counties of the Metro East. Interstate highways make the University convenient for those within a 60-mile radius, an area that includes 2.7 million people. St. Louis, 25 minutes southwest of the campus, is one of the oldest and richest cultural centers of the country, renowned for its symphony, opera, art museums and conservatories for the arts. It is a center for educational, medical, botanical, biochemical and business research. SIUE is one of four comprehensive universities among more than 20 institutions of higher education in the metropolitan area. Because the University is near a metropolitan area, students and faculty can experience the diversions of ethnic restaurants, large retail malls, touring Broadway plays and professional sports; they can enjoy as well the pastoral setting of the campus and nearby state parks, small towns and historic settlements.

Students
With an enrollment of nearly 14,000 students, SIUE is large enough to provide for the educational needs of its students, yet sufficiently small to impart a personal approach. Nearly 40 percent of the students come from Madison and St. Clair counties in Illinois, nearly seven percent from Missouri. The remainder come from all other counties in Illinois, 41 other states and 58 nations. Minority students represent nearly 23 percent of enrollment. The majority of SIUE students are between ages 18 and 24 and have come to the University to prepare for the challenges of life and employment. Many students, however, are over 25 and have enrolled in the University after beginning their families and careers. Some return to complete an interrupted education, others to retrain for better jobs. Others return for the sheer excitement of learning. Seventeen percent of all students attend part time; many work while taking classes. For them, evening and Saturday classes are especially convenient. Approximately 2,900 students live in SIUE’s residence halls (Woodland Hall, Prairie Hall, Bluff Hall and Evergreen Hall) or Cougar Village Apartments. The University has developed a number of programs to recognize academic excellence among students. These include the Meridian Scholars Program, the Honors Program, the Honor Society of Phi Kappa Phi, and special recognition of outstanding students at annual honors recognition ceremonies.

University Mission
In a mission statement, an organization tells its publics why it exists. The following mission statement was proposed by SIUE in May 2013 and approved by the SIU Board of Trustees in September 2013, replacing an earlier version: Southern Illinois University Edwardsville is a student-centered educational community dedicated to communicating, expanding and integrating knowledge. In a spirit of collaboration enriched by diverse ideas, our comprehensive and unique array of undergraduate and graduate programs develops professionals, scholars and leaders who shape a changing world.

University Vision
A vision statement indicates what an organization wants to become — a statement of aspirations, a statement of what it expects to look like in the future. The following Vision Statement was adopted by SIUE in May 2013, replacing the prior version: Southern Illinois University Edwardsville will achieve greater national and global recognition and academic prominence through innovative and interdisciplinary programs that empower individuals to achieve their full potential.

University Values
By adopting a statement of values, an organization signals to its publics those fundamental ideals and concepts on which it bases its plans and actions to achieve its vision. SIUE adopted the following statement in May 2013, replacing earlier statements: Recognizing public education as the cornerstone of a democracy, SIUE fulfills its mission based on certain fundamental, shared values. We value:

Citizenship
- Social, civic and political responsibility - globally, nationally, locally, and within the University
- Active partnerships and a climate of collaboration and cooperation among students, faculty, staff, alumni and the larger community

Excellence
- High-quality student learning within and beyond the classroom
- Continuous improvement and innovation
Outstanding scholarship and public service

Inclusion
- A welcoming and supportive environment
- Openness to the rich diversity of humankind in all aspects of University life
- Respect for individuals, differences, and cultures
- Intellectual freedom and diversity of thought

Integrity
- Accountability to those we serve and from whom we receive support
- Honesty in our communications and in our actions

Wisdom
- Creation, preservation, and sharing of knowledge
- Application of knowledge in a manner that promotes the common good
- Lifelong learning
- Sustainable practices in environmental, financial and social endeavors

Statement on Diversity
The SIUE Statement on Diversity reflects the University’s commitment to recognizing and valuing the contributions of the breadth of humankind. This statement, adopted in April 2013, replaces an earlier version and is considered an expansion of the SIUE value of Inclusion.

All societies and peoples have contributed to the rich mix of contemporary humanity. In order to achieve domestic and international peace, social justice, and the development of full human potential, we must build on this diversity and inclusion.

- Southern Illinois University Edwardsville nurtures an open, respectful, and welcoming climate that facilitates learning and work. Each member of the University is responsible for contributing to such a campus environment.

- Southern Illinois University Edwardsville is committed to education that explores the historic significance of diversity in order to understand the present and to better enable our community to engage the future. Integral to this commitment, Southern Illinois University Edwardsville strives for a student body and a workforce that is both diverse and inclusive.
Achieving the Vision:
SIUE’s Long-Term Goals
An organization carries out its mission and achieves its vision by setting and working toward achieving long-term goals. The following long-term goals were adopted by SIUE in July 2013.

The primary focus of SIUE’s long-term goals is student learning. Achieving the following goals will help students become lifelong learners and effective leaders in their professions and communities:

Prepared and Committed Students — Recruit and engage a diverse student body ready to accept the rigorous challenges of higher education, to persist in academic study, and to become lifelong learners.

Innovative High Quality Programs — Develop and enhance curricular and co-curricular programs to fully support learning and degree completion.

Dedicated Faculty and Staff — Recruit, support, and retain a highly committed and diverse faculty and staff who continually strive for excellence by promoting student learning, producing significant scholarship, and serving multiple constituencies.

Supportive Campus Community — Foster an inclusive university community characterized by integrity, civility, shared governance and openness to and respect for different backgrounds, cultures, and perspectives.

Outreach and Partnerships — Develop and strengthen collaborative relationships to effect positive changes in the University, region, nation and world.

Physical and Financial Sustainability — Develop, maintain and protect the University’s assets by practicing and promoting economic, environmental, and social sustainability campus-wide.

SIUE offers educational opportunities to many students. Definitions of admission categories are provided in this section, along with admission criteria and procedures. Admission Counselors in the Office of Admissions (Rendleman Hall, room 2101) can answer any questions you may have about admission to undergraduate study at the University.

Applicants considering a specific major program should consult the appropriate department to learn about additional admission requirements for that program.

Application Deadline Information
To be considered for admission, you must complete your admission file by the published deadline for the term for which you are seeking admission. For freshmen, priority consideration will be given to students whose applications are completed by the priority deadline. Applications received after the priority deadline are subject to additional review by the Admissions Review Committee. Applications completed after the final application deadline may not be considered for admission. A complete file consists of an application, application fee and all required documentation. If you do not enroll in the term in which you planned to enroll, but wish to enroll in a subsequent term, it is important that you file a new application by the deadline listed for the new term of entry.

International students seeking information about application deadlines should consult the section on international admission which includes specific deadlines. If you do not enroll in the term in which you planned to enroll, it is important that you notify the Office of Admissions, Box 1047, or intladm@siue.edu, of your change in plans before the deadline date for the new term of entry.

File Completion Deadlines through 2019:
2018 Fall Semester — New freshmen, Priority Deadline: December 1, 2017; Final Deadline: May 1, 2018; All other students: July 20, 2018
2019 Spring Semester — All undergraduate students: December 14, 2018, International students: November 1, 2018
2019 Summer Term — All undergraduate students: May 3, 2019, International students: April 1, 2019
2019 Fall Semester — New freshmen, Priority Deadline: December 1, 2018; Final Deadline: May 1, 2019; All other students: July 19, 2019
For a complete listing of deadlines, please visit siue.edu/apply.

Application Fee
All applications for admission must be accompanied by a non-refundable application fee of $40. Payments should be made in U.S. dollars by check or money order payable to SIUE. To pay by credit card, you are encouraged to apply online. Applications received without the fee will not be processed. Requests for an undergraduate fee waiver are available online at siue.edu/apply/pdf/AppFeeWaiverForm.pdf and should be sent to the Director of Undergraduate Admissions.

Application Procedures for Freshmen
The quickest and easiest way to apply and pay the application fee is online at siue.edu/apply. You may obtain a paper admission application by printing one from siue.edu/apply. If you are a high school senior or if you graduated from high school within the last five years, submit an official high school transcript and ACT or SAT score. If you are attending high school, the transcript must show at least six semesters of coursework. A final transcript reflecting all high school coursework and graduation verification also must be submitted after completion of high school. ACT or SAT scores that appear on the high school transcript are acceptable. You should make arrangements to take the ACT or SAT test as soon as possible. No admission decision will be made without those results.

If you graduated from high school five or more years before applying to SIUE, you must submit an official high school transcript showing graduation verification. ACT or SAT scores are optional. If you have taken the ACT or SAT test, you are encouraged to submit the scores. ACT or SAT scores that appear on the high school transcript are acceptable. Applicants who have passed the GED test must have the regional superintendent of schools or appropriate state office send an official copy of the scores to SIUE. To be considered official, all documents (high school transcripts, GED scores, ACT/SAT scores, and college/university transcripts) must be mailed directly to the Office of Admissions, Box 1047, SIUE, Edwardsville, IL 62026-1047, by the office or institution that issues the document. Faxed documents are not accepted. In addition, SIUE accepts electronic transcripts submitted through various electronic transcript services. In addition, electronic transcripts can also be sent to etranscripts@siue.edu directly from the institution. If a transcript is received through this account from a student, it will not be considered official.

Freshman Admission
For a complete list of freshman admission criteria, please refer to siue.edu/policies/1e1.shtml. Priority consideration for admission will be given to students whose applications are complete by the priority filing date. Applications received after the priority date are subject to additional review by the Admissions Review Committee. Applications completed after the final application deadline may not be considered for admission.

Non-Traditional Freshmen — General Education Development (GED) Test
Applicants without a high school diploma must have completed and passed the General Education Development (GED) test, which includes passing the state and federal constitutions. Applicants also must:

- correct any English, mathematics or reading deficiencies as indicated by SIUE placement tests, and
- complete at least one, 3-semester-hour course in each of the following areas: science, social sciences, and foreign language, music, art, theater, dance or speech communication.

Courses must be selected from introductory and distribution general education courses numbered below 300. These courses must be completed with a passing grade or the applicant must achieve a minimum grade of C on a proficiency examination. Courses taken to meet this additional course requirement will not carry credit toward general education or major/minor requirements. Credit will be awarded as general elective credit toward graduation, i.e. elective credits not required by the major and/or minor.

Transfer Admission
For complete transfer admission criteria, please refer to siue.edu/policies/1e1.shtml. Applicants are considered transfer students when they present coursework from accredited two-year and four-year institutions, unless all hours were earned in college courses while still in high school. Students who have attempted at least 30 semester hours in courses at accredited institutions are admissible in good standing, provided they have earned a minimum cumulative 2.00 (C) grade point
average in such course work at the previous accredited school(s) attended. Admission criteria for students who have attempted fewer than 30 semester hours in courses at accredited institutions are:

**Good Standing** — Students are admissible in good standing provided they have earned at least a cumulative 2.00 (C) grade point average in such course work at the previous accredited school(s) attended and meet the criteria admission for entering freshmen.

**Academic Probation** — Students who do not have at least a cumulative 2.00 (C) grade point average as stipulated are admissible on academic probation, provided they meet the criteria admission for entering freshmen. The transfer average (i.e. the cumulative grade point average in all course work from all accredited institutions previously attended) is used only in determining the applicant’s eligibility for admission. Once a student is admitted, the student’s SIUE record will reflect the total number of acceptable transfer credit hours (hours earned in transferable courses with grades of A, B, C, D, pass, satisfactory, etc.), but the grade point average will be calculated only for work completed at SIUE. Applicants wishing to be considered for admission as transfer students must complete their admission files at least four weeks before the beginning of the term for which admission is sought. For applicants with at least 30 semester hours of coursework as stipulated above, a complete file consists of an application for undergraduate admission, an official transcript from each institution previously attended, and the application fee. For applicants with fewer than 30 semester hours, a complete file consists of an application for undergraduate admission, an official transcript from each institution previously attended, credentials prescribed by the appropriate admission category for entering freshmen, and the application fee. (An official transcript must be sent by each institution directly to the Office of Admissions. All transcripts become the official property of the University and will not be returned or issued to another institution.) Questions about the acceptability of specific courses for admission and/or for transfer credit should be directed to the Office of Admissions.

**Dual Admission Program**

SIUE has established partnerships with various community colleges to establish dual admission programs for students planning to pursue a baccalaureate degree following attendance at the community college. This program is designed to provide a seamless transition between the community college and the University. Students pursuing transfer degrees or similar curricular paths at one of our partner schools may be eligible for the Dual Admission Program. A list of participating community colleges is available at the SIUE transfer website, siue.edu/transfer.

Students attending one of our partner community colleges should consider applying for dual admission. The following criteria will be reviewed to determine whether the program is the best option for those applying:

- Currently pursuing an AA, AS, equivalent transfer degree or the General Education Core Curriculum (GECC) as outlined by the Illinois Articulation Initiative (IAI)
- Fewer than 30 semester hour earned at the time of application
- Minimum cumulative GPA of 2.0
- Minimum of two semester remaining at the community college

Students interested in participating in the Dual Admission Program while enrolled at their participating community college must complete an SIUE Dual Admission application indicating the term they plan to attend SIUE. Admitted students receive an acceptance letter from the University with information necessary to access resources at SIUE. Students are encouraged to engage in selected activities to help them connect with the University. Students participating in this Dual Admission Program receive a waiver of SIUE’s admission application fee, ongoing automatic evaluation of transfer credit each semester, academic advisement as appropriate, and periodic program updates. At the end of each semester the community college will forward an official transcript to SIUE. Awarded transfer credit will be posted and available to the student on CougarNet. Additionally students may run degree audits to monitor progress toward their intended undergraduate degree program.

**2 + 2 Agreements**

Community college students who plan to pursue specific majors at SIUE may benefit from 2 + 2 programs. These agreements allow students to follow a specific curriculum while attending their first two years at the community college, then transferring into their intended major at SIUE. These programs allow students to efficiently progress toward completion of
a bachelor's degree program. For programs that offer competitive admission at SIUE, 2+2 agreements ensure that transfer students are as prepared as SIUE students to compete for admission. A list of 2+2 programs is available from the SIUE transfer website, siue.edu/transfer.

Students interested in participating in a 2+2 program while enrolled at their community college must complete a 2+2 application indicating the term they plan to attend SIUE. Admitted students receive an acceptance letter from the University containing information necessary to access resources at SIUE. Students are encouraged to engage in selected activities to help them connect with the university. Students participating in this program receive a waiver of SIUE’s admission application fee, ongoing automatic evaluation of transfer credit each semester, academic advisement as appropriate, and periodic program updates. SIUE participates in the Illinois Articulation Initiative. More information is available online at siue.edu/transfer.

**Admission of International Students and Students in Any of the Categories Below**

Students applying for admission in any of the following categories will be processed through the Office of Graduate and International Admissions: applicants requiring an F or J visa to study in the U.S., applicants with foreign academic credentials, and applicants whose first language is not English. Inquiries should be directed to the office at intladm@siue.edu. Additional information is available online at siue.edu/international.

Students holding or requiring F-1 (Student) Visas are expected to satisfy appropriate academic requirements and demonstrate English language proficiency for admission purposes. In addition, acceptable evidence of adequate financial resources are required to receive an I-20 immigration document. Applicants with U.S. educational credentials will be reviewed for academic eligibility under the same standards applied to domestic students, but these applicants will be required to provide acceptable evidence of adequate financial resources to receive an I-20 immigration document or to transfer their SEVIS record to SIUE.

Standard reference materials published by recognized organizations such as (but not limited to) the American Association of Collegiate Registrars and Admissions Officers and the NAFSA: Association of International Educators will be used as guidelines to evaluate foreign academic credentials for academic eligibility, and level of placement. Applicants who are seeking university-level transfer credit for courses completed at an institution outside the United States must have their transcripts evaluated by a professional credential evaluation service such as World Education Service (WES) – wes.org, or Educational Credential Evaluators, Inc (ECE) – ece.org. SIUE will use this evaluation of credit as a guideline and SIUE reserves the right to award appropriate credit. F-1 applicants whose recognized first language is not English must provide acceptable verification of their English language proficiency. Verification must be on file by the appropriate deadline stated below. Details are found under the heading “Applicants Whose First Language Is Not English.”

All F-1 applicants must submit to the Office of Graduate and International Admissions proof of adequate financial resources. Financial arrangements must be approved by the appropriate deadline below. Questions about financial matters should be directed to the Office of Admissions. F-1 applicants applying from abroad must observe the following admission application file completion deadlines:

**International Deadlines Fall:** July 1; **Spring:** November 1; **Summer:** April 1

**Health Insurance Requirement**

In support of immigration requirements for F-1 and J-1 visa holders, SIUE requires that international students purchase and maintain coverage with a University approved international student insurance plan for the duration of their studies at SIUE. Students who do not maintain this coverage will be blocked from registration. Regulations (22.C.F.R. § 62.14) state that J-1 students and their dependents must have adequate coverage for the duration of their studies in the United States. Federal regulations require F-1 students to verify adequate funds for living expenses, and such living expenses should include health insurance. The University, in compliance with federal regulation, has set the following as minimum insurance requirements for international students:

- $100,000 per accident or illness
- repatriation of remains in the amount of $25,000
- $50,000 coverage for medical evacuation
deductibles not to exceed $500 per accident or illness

Insurance requirements apply both to J-1 and F-1 students. No exceptions will be made. All exchange students (J-1 and J-2) are required to have sickness and accident insurance and medical evacuation and repatriation insurance in effect for the duration of their exchange visitor status. A written copy of the policy in English must be provided to SIUE Health Service. A representative from Health Service will be scheduled to speak to the international students during their orientation week to inform students about insurance policy requirements and procedure.

Applicants with Foreign Academic Credentials

Standard reference materials published by recognized organizations such as (but not limited to) the American Association of Collegiate Registrars and Admissions Officers (AACRAO) and the NAFSA: Association of International Educators will be used as guidelines to evaluate foreign academic credentials for academic eligibility, level of placement. Applicants who are seeking university-level transfer credit for courses completed at an institution outside the United States must have their transcripts evaluated by a professional credential evaluation service such as World Education Service (WES) — wes.org, or Educational Credential Evaluators, Inc (ECE) — ece.org. SIUE will use this evaluation of credit as a guideline and SIUE reserves the right to award appropriate credit. Applicants are responsible for making all appropriate arrangements for providing official academic records attesting to all secondary and post-secondary education. Credentials not available in English must be submitted with an original and an attested translation from the same institution as the original. University-level academic work will be considered for transfer of credit as appropriate. Secondary and post-secondary school transcripts of applicants’ academic records (including certification of graduation and the title of the diploma or certificate awarded when appropriate) must be sent directly to the Office of Admissions. Each transcript must bear the official’s signature and the school’s official seal. Photocopies of educational records and documents are acceptable only if they bear an original certification of authenticity from the issuing school or examination board. Notarized copies of educational records and documents and other exceptions to the above-stated

foreign academic credentials policy will be considered when recommended by recognized organizations such as AACRAO and NAFSA.

The University reserves the right to verify the authenticity of applicants’ academic records with the issuing institutions.

Undergraduate application materials for students whose first language is not English must include a detailed explanation of procedures and required credentials and fees, and are available online at siue.edu/international.

Materials will be sent upon request. F-1 applicants must complete their admission application by the deadline stated in the section on “Students Holding or Requiring F-1 Visas.” Other applicants must complete their admission application no later than the published deadline for the semester in which they plan to begin coursework.

Applicants Whose First Language is Not English

All students with F-1 visas and/or foreign academic credentials whose first language is not English must demonstrate in advance of admission adequate English language proficiency. English language proficiency must be verified in one of the following ways:

- Applicants may sit for the International Testing Program of the International English Language Testing System (IELTS), or the Special Center Testing Program of the Test of English as a Foreign Language (TOEFL) and have an official score report sent directly to the Office of Admissions. The minimum acceptable TOEFL score is 550 (paper-based test) and 79 (iBT). The IELTS acceptable band range is 6.5. Applicants may submit scores from another recognized testing service as long as the scores can be documented as being equal to or greater than the required IELTS or TOEFL score. SIUE reserves the right to determine if scores from testing services other than IELTS or TOEFL will be accepted.

- Applicants may sit for the Michigan Test of English Language Proficiency, or a similar test chosen and approved by SIUE, administered on campus at SIUE. Michigan Test scores or other similar tests administered at another institution will not be accepted. The minimum accepted raw score for the Michigan test administered at SIUE is 64.

- Applicants may submit a properly certified copy of their General Certificate of Education administered by a British testing agency
showing a grade of A, B, or C in the subject English Language. Recognized equivalent examinations also will be considered.

- Applicants may submit academic records certifying that they have graduated from a recognized secondary school, college or university at which English is the exclusive language of instruction and is located in a primarily English-speaking country. A list of approved countries can be found on the international admission website.

- Applicants may submit academic records certifying that they have completed courses totaling at least six semester hours equivalent to English 101 (English Composition I) and English 102 (English Composition II) with earned grades of C or better at a regionally accredited college or university in the United States.

Admission as a Visiting Student

Applicants who have at least a high school diploma or equivalent and wish to take undergraduate courses for credit, but who are not interested in pursuing a baccalaureate degree at SIUE, may be admitted to the University as a visiting student. These students must submit an application to be a visiting student. Students admitted as a visiting student will be allowed to enroll in undergraduate courses for which they have met the prerequisites. Applicants still in high school may be considered by the Director of Undergraduate Admissions for admission as visiting students. Applicants wishing to be considered for admission as visiting students must complete their admission files at least four weeks before the beginning of the term for which admission is sought. Students in this category are not eligible to receive financial aid. However, if a visiting student is pursuing a degree at another post-secondary institution, the student may be eligible for VA benefits. Students wishing to apply for VA benefits will need to submit appropriate documentation confirming their degree-seeking status at a parent institution.

Students in this category may not accumulate more than 30 semester hours of credit at the University. If a student who has accumulated 30 semester hours of credit wishes to continue enrollment at SIUE, he/she must apply to the University as a degree-seeking student and satisfy appropriate criteria. Continued enrollment will not be permitted until the student satisfies admission criteria or appeals to the Director of Undergraduate Admissions.

Applicants previously denied admission in degree-seeking categories are not admissible as visiting students.

Change of Admission Status

Students wishing to change from visiting to undergraduate degree-seeking status must submit an application by the posted deadline and meet the appropriate admission criteria. Performance in courses completed at SIUE will be considered in the admission process. Students are also required to apply for a change in immigration status and may need to return to their home country to obtain an updated visa.

Placement Tests

Some entering undergraduate students should take standardized tests to help the University better understand their academic abilities and needs. The tests serve two purposes: first, they assess each student’s skills in mathematics, writing, and/or reading in order to identify coursework that would be appropriate; second, by identifying the educational skills of those entering its classes the University can assess the quality of education it provides for its students.

For first-time, first-year students and for transfer students, placement into all mathematics, English, reading, and academic development courses is based on satisfactory performance (grades of C or better) in mathematics and English courses completed elsewhere or placement tests where evidence of satisfactory performance is absent. Placement into English and academic development writing and reading courses is also based on ACT/SAT scores. Students who do not take the placement tests are placed in the course for which they qualify based on ACT/SAT subject scores or coursework. The chemistry readiness examination is required if you plan to major in biology, chemistry, computer science, engineering, environmental sciences, exercise science, medical technology, physics, pre-medicine, pre-dentistry, pre-veterinary medicine, or pre-pharmacy unless you have taken a college general chemistry course equivalent to CHEM 121a at SIUE or scored a 23 or above on the math portion of the ACT test.

High School Students (coursework before graduation from high school)

Capable high school students will be permitted to enroll as visiting students for University courses to be taken concurrently with their senior year of high school work. These students must meet the high school
admission requirements for first-time freshmen and are subject to review by the Director of Undergraduate Admissions. A letter of support written by the high school principal or guidance counselor is required. The Director of Undergraduate Admissions also may consider applications from exceptionally capable students who have not yet completed their junior year of high school. Students admitted through the early admission program must submit a final high school transcript after completion of high school. The final transcript must reflect their graduation date.

Non-Traditional Freshmen — General Education Development (GED) Test

Applicants without a high school diploma must have completed and passed the General Education Development (GED) test, which includes passing the state and federal constitutions. Applicants also must:

- correct any English, mathematics or reading deficiencies as indicated by SIUE placement tests, and complete at least one, 3-semester-hour course in each of the following areas: science, social sciences, and foreign language, music, art, theater, dance or speech communication.

Courses must be selected from Breadth general education courses numbered below 300. These courses must be completed with a passing grade or the applicant must achieve a minimum grade of C on a proficiency examination.

Academic Forgiveness

Former SIUE undergraduate students may have the option of being treated as transfer students for the purpose of calculating their SIUE grade point average after re-entry if they have been absent from SIUE for six years (from the last term of enrollment) and have:

- successfully completed 30 baccalaureate-oriented semester hours at an accredited institution of higher education; or have

- completed an associate of arts, associate of science, or associate of science and arts degree at an accredited institution of higher education.

Determination of Residency Status

Student residency status affects two primary considerations: tuition and financial assistance. Ordinarily, determination of residency status is made by the Office of Admissions Review and Processing from evidence furnished on the application for admission to the University. If such evidence is insufficient, or if records establish that students do not meet the requirements for resident status as defined in the following regulations, non-resident status is assigned.

Definitions and Conditions

Adults, to be considered residents for purposes of tuition, must have been bona fide residents of Illinois for at least six consecutive months immediately preceding the beginning of any term at the University and must continue to
maintain a bona fide residence in the state. Adult students who have a parent or both parents maintaining bona fide residence in the state and who reside in the parental home or elsewhere in the state are considered resident students. Persons under 18 years of age are considered minors.

The residence of minors shall be considered to be and to change with that of the parent(s) or legal or natural guardian(s). Parents or legal or natural guardians will not be considered residents of the state unless they maintain a bona fide and permanent place of abode within the state. If minors are emancipated, are completely self-supporting, and reside in the state, they shall be considered residents, even though the parents or guardians may reside outside the state. Marriage or active military service shall be regarded as affecting the emancipation of minors for the purpose of this regulation.

The term bona fide residence refers to the true, fixed, and permanent home and place of habitation to which individuals intend to return after a temporary absence. Evidence used to determine bona fide residence includes voter registration, place of filing tax returns, proof of property ownership or year-round residence, driver's license, automobile registration, or place of employment. Nonresident students married to residents of the state may be classified as residents while residing in the state. The spouses through whom students claim residence must demonstrate resident status according to the requirements that apply to all students seeking resident status. Students who are not citizens of the United States of America, to be considered residents for tuition purposes, must either be married to residents or have permanent resident status with the United States Immigration and Naturalization Service, and must comply with all other applicable regulations to establish resident status. Students considered residents for tuition purposes may need to meet additional criteria in order to be eligible for federal student financial assistance. Persons actively serving in one of the armed forces of the United States are considered residents only if they were residents of the state at the time of entry into military service. Those separated from active military service are considered residents of Illinois immediately upon separation under the following conditions:

- they were residents of the state at the time of entry into military service, or
- they were treated as residents while in the military by attending school at this University while stationed within the state, or
- they resided within the state for a period of six months after separation and immediately prior to the term for which they claim residency.

Persons incarcerated in a state or federal place of detention within Illinois will be treated as residents for tuition assessment purposes while remaining in that place of detention. If bona fide residence is established in Illinois upon release from detention, the duration of residence shall be deemed to include the prior period of detention. Spouses and dependent children of all employees on appointment with the University are considered resident students for purposes of tuition assessment during the term of such appointment. Students may have their residency status reclassified on the basis of additional or changed information by filing a written request for review, available at the Service Center. The written request for review must be filed within 30 school days of the day on which classes begin for the term for which a residency change is requested.

A student seeking reclassification from nonresident to resident status is liable for the tuition and fees assessed, but, if granted, the change of residency and any tuition change shall apply for the term in which reclassification occurs. In the case of a student classified as a resident who is reclassified as a non-resident, the change to nonresident status and adjustment of tuition shall apply for the term following the reclassification. If the University has classified a student as a resident on the basis of false or falsified documents furnished by the student, the reclassification to non-resident status shall be retroactive to the first term during which residence status was based on these incorrect documents. The student also may be subject to sanctions under student conduct guidelines.
### Appeal of Residency Review Decisions

A student who is dissatisfied with the ruling in response to a written request for review of residency status may appeal the ruling to the Vice Chancellor for Student Affairs by filing a written request with that office within 20 days of the notice of the first ruling. Appeals should be sent to Campus Box 1058, SIUE, Edwardsville, IL 62026-1058.

### Registration

Registration generally is available to students by the end of March for summer and fall terms and by the end of October for the spring term. Specific registration schedules are published on the Registrar’s website at [siue.edu/registrar](http://siue.edu/registrar).

### New Student Registration

Entering freshmen will attend Springboard to Success, a mandatory pre-entry advisement program that will begin their university experience and allow a smooth transition to SIUE. Students will meet with an academic advisor, register for classes, get an SIUE student ID and take care of other University business. Entering transfer students who are undeclared are required to attend an hour-long advising appointment with an academic advisor in the Office of Academic Advising. All other students, except visiting students, must meet with an academic advisor before registration. During this advising session, an enrollment (alternate) PIN is issued that will be required to access Web registration. It is important that you plan your schedule appropriately, ensuring that all prerequisites and class restrictions have been satisfied before enrollment. Prerequisites and class restrictions may be reviewed in the class schedule published through CougarNet. To avoid problems with enrollment, please follow these guidelines:

- Meet with an advisor.
- Retain your Enrollment PIN until the term begins.
- Ensure that you have cleared any holds that may be on your record.
- Ensure that prerequisites and class restrictions are satisfied.
- Obtain approval to enroll when necessary.
- Register early in the registration period.
- Obtain your billing information through CougarNet.
- Make payment by the due date.

Registrations may be cancelled by the University for academic, disciplinary or financial reasons. While the University reserves the right to cancel students for administrative reasons, it is the student’s responsibility to drop classes in which enrollment is no longer desired. Schedule changes may be made online through the Friday before the first day of the term. Students are expected to register before the term begins. It is advisable to register as early as possible to ensure space in desired classes. Beginning with the first day of the term, students will be assessed a non-refundable $25 late registration fee. No registrations will be accepted after the second week of the semester.

### Changes in Registration

Students may make changes to their class schedule online via Web registration or in the Service Center, Rendleman Hall, room 1309, or in the unit in which the student originally registered, through the Friday before the first day of class. Beginning with the first day of the term, all schedule changes must be made in the Service Center. The change is official only when this procedure is complete.

Students officially are registered for only those courses and sections appearing on their registration documents, and as modified by official changes they have made with their advisor. Students may add classes using CougarNet provided class prerequisites and restrictions have been satisfied, an enrollment (alternate) PIN has been obtained and, if appropriate, the student does not have any holds. In addition, students may process changes in the Service Center using a signed registration or add/drop form. All schedule changes should be confirmed using CougarNet.

### Adding Classes

Effective the first day of the term, all undergraduate classes are considered “closed.” Students who want to add a class after the first day must obtain the instructor’s written approval. This permission to gain admission to the class generally will be given on the registration form, which must be taken to the Service Center, Rendleman Hall, room 1309, for processing by the end of the first week of classes. After the first week, approval of the department chair and advisor also are needed to add a class. The only classes that may be added after the second week are those that start after the end of the second week, including workshops and independent reading classes. Exceptions must be approved by the appropriate dean and the registrar. If students
add classes that increase the amount of tuition and fees they are required to pay, the procedure is handled in one of two ways: 1. If tuition and fees have not been paid, a new tuition calculation is completed to reflect the increased amount. 2. If tuition and fees have been paid, the additional hours will generate a new tuition cost for that term, and the students will receive an additional e-bill in most cases.

**Dropping Classes**
Students who need to drop a course must do so at the Service Center. Students may drop a course within the following guidelines by submitting a completed add/drop form with authorizations as appropriate. Students dropping a course during weeks 1-2 will receive a refund of tuition and fees for the class. After week 2, students remain financially responsible for all tuition and fees with no refund given. Students dropping all classes for the term should refer to the section titled “Withdrawing from the University.”

**Fall and Spring Semesters**

- **Weeks 1-2** — Students may drop a class without permission of the instructor and have no entry on the transcript.
- **Weeks 3-10** — Students may drop a class without permission of the instructor. A grade of “W” automatically is assigned.
- **Weeks 11-13** — Students may drop a class only with approval of the instructor and advisor; a grade of “WP” or “WF” must be assigned by instructor; “WF” is computed in the GPA as an “F.”
- **After Week 13** — No class may be dropped; a grade other than “W,” “WP,” or “WF” must be assigned by the instructor.

**Summer Term**

- **Weeks 1-2** — Students may drop a class without permission of the instructor and have no entry on the transcript.
- **Weeks 3-5** — Students may drop a class without permission of the instructor. A grade of “W” automatically is assigned.
- **Weeks 6-8** — Students may drop a class only with approval of the instructor and advisor; a grade of “WP” or “WF” must be assigned by instructor; “WF” is computed in the GPA as an “F.”
- **After Week 8** — No class may be dropped; a grade other than “W,” “WP,” or “WF” must be assigned by the instructor.

Different deadlines apply to weekend, short-term classes and workshops scheduled in non-traditional formats. Contact the Service Center for information or visit the registrar’s website, siue.edu/registrar. Absence from class does not constitute dropping a class or withdrawing from the University, so you must follow these instructions to avoid the assignment of failing grades. Faculty may request that students who fail to meet attendance requirements be removed from class. Because students who drop all classes are considered to be withdrawing from the University for that term, that transaction must be initiated according to the procedure below.

**Withdrawing from the University**
Students who need to withdraw from the University during any term must initiate official withdrawal procedures in the Service Center, Rendleman Hall, room 1309. All withdrawals must be completed by the end of the 13th week of classes during fall and spring, and by the end of the 8th week for summer full-term classes. Different deadlines apply to short-term classes or workshops scheduled in non-traditional formats. Questions about withdrawal deadlines should be directed to the Service Center. A 100 percent refund of tuition and fees (except the late registration fee) is possible only if withdrawal and refund requests are officially completed within the first two weeks of the term. All textbooks or library materials on loan must be returned before a withdrawal is considered effective and a refund is approved.

**Tuition and Fee Refund**
Withdrawals generally must be completed by the end of the 8th week of classes. Different deadlines apply to short-term classes or workshops scheduled in non-traditional formats. Questions about withdrawal deadlines should be directed to the Service Center or the Office of Continuing Education as noted above. A 100 percent refund of tuition and mandatory fees (including the Student-to-Student Grant fee but excluding the late registration fee) is possible only if withdrawal and refund requests are officially completed within:

- the first 2 weeks of the term for a course that lasts 8 weeks or more;
- the first week of the term for a course that lasts at least 4 weeks, but less than eight weeks; or
- the 1st class meeting for a course that lasts less than 4 weeks.
All textbooks or library materials on loan must be returned before a withdrawal is considered effective and a refund is approved. A partial refund of 50 percent of tuition shall be given if the student's withdrawal from the University is processed after the dates outlined above, and before the deadlines outlined below:

- the last day of the 4th week for a course that lasts 8 weeks or more;
- the last day of the 2nd week for a course that lasts at least 4 weeks, but less than 8 weeks;
- the 4th class meeting for a course that lasts at least 11 days, but less than 4 weeks;
- the 2nd class meeting for a course that lasts 10 days or less.

Students enrolled in courses lasting longer than 8 weeks and who receive a partial refund of tuition shall be given a 100 percent refund of mandatory student fees if they officially withdraw from the university by the last day of the third week.

For all other students who receive a partial refund of tuition, no mandatory fees shall be refunded. Students who receive a partial refund of tuition shall be assessed an administrative fee of $100. No tuition or mandatory fees shall be refunded after the deadlines stated above except for students entering military service for six months or longer, or students in grave circumstances who demonstrate to the satisfaction of the chancellor or the chancellor's designee that, for reasons beyond their control, the students are unable to continue their educational program. Nothing in this policy shall preclude the chancellor from complying with any applicable state or federal law or regulation.

Students receiving notification of academic suspension after completing registration for the next term automatically will be withdrawn from the University.

Students who already have paid tuition and fees for the next term must contact the Service Center or the Office of Continuing Education to initiate a refund. Please consult the Registrar's website at siue.edu/registrar for withdrawal and refund deadlines. Students who receive Title IV Financial Aid (Pell, SEOG, Direct and/or Perkins Loans), and withdraw completely are subject to the federal Return of Title IV Funds policy. According to Return of Title IV Funds policy, students earn their financial aid on the basis of the portion of the semester that is completed. The University also earns a portion of the financial aid. Aid that is determined to be unearned by the student and/or University must be returned to the appropriate Title IV program. Students who are subject to Return of Title IV funds will be contacted by the Financial Aid Office and informed of the impact of withdrawing under this policy, as well as the amount of any balance owed to the University after unearned aid has been returned.
Academic Policies and Requirements

Classification of Students
Students seeking their first bachelor’s degree are classified according to the number of credit hours they have earned.

<table>
<thead>
<tr>
<th>Class</th>
<th>Semester Hours Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0-29 hours</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59 hours</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89 hours</td>
</tr>
<tr>
<td>Senior</td>
<td>90 hours or more</td>
</tr>
</tbody>
</table>

One semester hour represents the work completed in a lecture course that students attend for 50 minutes each week for 15 weeks; laboratory courses may require more than 50 minutes each week for one semester hour. One quarter hour of credit is equivalent to two-thirds of one semester hour; one semester hour equals one and one-half quarter hours.

Classifications not determined by the number of credit hours, are non-degree, senior with degree, and visiting student.

Class Attendance
Upon registration, students accept responsibility for attending classes and completing course work or officially withdrawing from classes in which they are not in attendance. It is the student’s responsibility to ascertain the policies of instructors with regard to absence from class, and to make arrangements satisfactory to instructors with regard to incomplete course work. Although absence from class does not constitute dropping a class or withdrawing from the University, failure to actively participate may result in a reduction or removal of financial aid. It is particularly important to attend the first meeting of a class. Failure to attend the first session could result in your place being assigned to another student. However, failure to attend the first session of a course does not necessarily mean that you have been withdrawn from it. If you wish to withdraw from a course, and possibly qualify for a reduction of tuition and fees, you must formally withdraw from the course at the Service Center. Students are financially and academically responsible for all classes in which they are enrolled regardless of their attendance; however, eligibility to retain federal, state and institutional financial aid will be dependent on institutional record of continued attendance or active participation in class.

Academic Load
The normal academic load for students is 15 hours. The maximum is 19 hours. Students with a 3.25 grade point average or above for the preceding term may be permitted to take more than 19 hours with the approval of the dean or director of their academic unit. A normal load is 6 hours for summer term; the maximum summer load is 12. Students employed full-time should not register for more than six hours.

Students who carry 12 or more credit hours in fall or spring semesters or 6 credit hours in summer are considered full-time students. However, a student attending the University under scholarships, loans, or other types of financial aid requiring full-time enrollment should check to make certain this meets the requirements of the specific financial aid program. For enrollment certification purposes, University-sponsored cooperative education participation is considered equivalent to full time enrollment. This requires formal enrollment in an approved cooperative education course through the Career Development Center.

Undergraduate students are expected to spend at least two hours in preparation for every hour in class.

Application for a Major or Minor
Undeclared students who wish to apply for a major or minor should make an appointment with an advisor in Academic Advising to complete a major and/or minor approval form. Acceptance into the major program of study is at the discretion of the academic department. Students who are completing courses to meet high school course deficiencies and/or to satisfy entry competencies (i.e., required academic development courses) may apply for a major or minor only after successful completion of those requirements. Students are advised by the department of their major after acceptance into the major.

To change your major or minor, go to the department of your intended new major to complete a major and/or minor approval form. Those who have applied for a major and wish to apply for a second major or minor should submit their request to the department of the primary major. You may request a minor when applying for a major, or later, by submitting a request to the major department.
Double Majors
Students may receive a single degree with a major in more than one discipline. A double major may provide richer preparation for graduate study or for a vocation. Those with a double major will have a first major, usually the one for which they first applied, and a second major. Students must satisfy all requirements for both majors, although some requirements need be accomplished only once. For example, general education requirements need to be satisfied only once. If both majors require a foreign language, only one foreign language is needed. Some majors require a minor concentration; students with a second major would satisfy the minor requirement. Students may apply for a double major when applying for the first major. Students who have been admitted to a major and wish to apply for a second major should first discuss the process with the advisor for the first major. A double major is not the same as completing two degree programs. Requirements for a second baccalaureate degree appear in the graduation section of this catalog.

Transfer Credit
Students who plan to take one or more classes from another institution and apply that credit to an SIUE degree should obtain prior approval for the course from the appropriate academic advisor to ensure the course is acceptable for program credit. This is especially important for students declared into a major.

Credit Earned by Examination, Extension and Correspondence
While the University does not maintain a correspondence school or extension courses, such courses taken from institutions accredited by appropriate regional accreditation associations are regularly accepted, if the grade earned is D or above. A maximum of 48 semester hours may be completed through correspondence and extension courses; of this total, not more than 15 semester hours may be taken through correspondence.

State Seal of Biliteracy Credits
Southern Illinois University Edwardsville accepts the State Seal of Biliteracy as equivalent to 101 in language courses offered at the University. When the seal is granted in a language not offered at Southern Illinois University Edwardsville, four (4) credit hours in a lower division foreign language course (FL 101) will be awarded. In all cases, students must request course credit for their seal within 3 academic years after graduating from high school. To request course credit for the State Seal of Biliteracy, please contact the Transfer Center.

Proficiency Examinations
Students may earn course credits by demonstrating proficiency in certain subjects. Testing Services (Student Success Center 1246) maintains a list of those courses for which out-of-class proficiency examinations are regularly available and provides information pertaining to those exams at siue.edu/testing/proficiency.

Students wishing to take a proficiency examination in any course (general education courses as well as others) should pick up a proficiency exam form at Testing Services. In many cases, course guides and reading lists are available from either Testing Services or the academic department for which the exam is given. For information regarding general education credit for proficiency examinations, please refer to the section titled Proficiency Examinations for General Education Credit. Students may take any available proficiency examinations subject to the approval of the department and the following limitations:

- Proficiency credit may not be awarded for a course in which a grade has been previously awarded. This includes withdrawal grades of W, WR, WP, or WF;
- A proficiency examination for a specific course may not be taken more than once.

Departments will determine grades on proficiency examinations based on either an A, B, C, no credit scoring option, or a pass/no credit scoring option. After a student has completed a proficiency examination, credits and grade points are granted as follows:

For a grade of A, B, or C on a proficiency examination, the academic record shows the name of the course, hours of credit granted, grade earned, and a notation “out-of-class proficiency” or “in-class proficiency.” The grade earned counts in the grade point average.

For a pass score, credit is given without a calculated grade. The academic record shows the name of the course, hours of credit granted, a grade of “P,” and a notation of “out-of-class proficiency” or “in-class proficiency.” The grade earned does not count in the grade point average.

For a grade of D or F on a proficiency examination, no credit is awarded. The academic record shows nothing regarding
the proficiency examination. However, the proficiency examination grade report form is retained in the student’s file for reference.

Students have the option of enrolling in the course for which they have taken the proficiency examination if they are not satisfied with their proficiency examination grades. In-class proficiency examinations are administered early in the term. Examinations are graded in sufficient time in order to give those who pass the test an opportunity to drop the course and add another course as a replacement on their schedule. Students who pass the test will receive credit immediately.

**Advanced Placement Program of the College Board**

High school students who wish to seek advanced placement and college credit should apply through the Advanced Placement Program of the College Board, P.O. Box 6671, Princeton, New Jersey 08540-6671. Advanced classes, which qualify for this purpose, are offered in many high schools. A national examination measures the achievement of students to determine at what point they should begin college study of that subject. Scores are assigned as follows: 5, extremely well qualified; 4, well qualified; 3, qualified; 2, possibly qualified; and 1, no recommendation.

**Courses for which earned hours credit may be awarded through advanced placement are the following:**

<table>
<thead>
<tr>
<th>Exam Code</th>
<th>Exam Title</th>
<th>Exam Score</th>
<th>SIUE Equivalent</th>
<th>SIUE Course Attributes</th>
<th>Awarded Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 13</td>
<td>Art History</td>
<td>3,4,5</td>
<td>ART 111 - Introduction to Art</td>
<td>BFPA</td>
<td>3</td>
</tr>
<tr>
<td>AP 14</td>
<td>Studio Art: Drawing</td>
<td>3, 4, 5 without portfolio review*</td>
<td>ART 1XX - Art Elective</td>
<td>N/A</td>
<td>3</td>
</tr>
<tr>
<td>AP 14</td>
<td>Studio Art: Drawing</td>
<td>3, 4, 5 and favorable portfolio review*</td>
<td>ART 112A - Basic Studio: Drawing I</td>
<td>N/A</td>
<td>3</td>
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<tr>
<td>AP 15</td>
<td>Studio Art: 2-D Design</td>
<td>3, 4, 5 without portfolio review*</td>
<td>ART 1XX - Art Elective</td>
<td>N/A</td>
<td>3</td>
</tr>
<tr>
<td>AP 15</td>
<td>Studio Art: 2-D Design</td>
<td>3, 4, 5 and favorable portfolio review*</td>
<td>ART 112B - Basic Studio: Visual Organization I</td>
<td>N/A</td>
<td>3</td>
</tr>
<tr>
<td>AP 16</td>
<td>Studio Art: 3-D Design</td>
<td>3, 4, 5 and favorable portfolio review*</td>
<td>ART 112D - Basic Studio: Visual Organization II</td>
<td>N/A</td>
<td>3</td>
</tr>
<tr>
<td>AP 75</td>
<td>Music Theory</td>
<td>3, 4, 5</td>
<td>ART 112D - Basic Studio: Visual Organization II</td>
<td>N/A</td>
<td>3</td>
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<tr>
<td>AP 36</td>
<td>English Language &amp; Comp</td>
<td>3, 4, 5</td>
<td>ENG 101 - English Composition</td>
<td>FW1</td>
<td>3</td>
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<tr>
<td>AP 37</td>
<td>English Literature &amp; Comp</td>
<td>3, 4, 5</td>
<td>ENG 111 - Introduction to Literature</td>
<td>BHUM, EGC</td>
<td>3</td>
</tr>
</tbody>
</table>

**History and Social Sciences**

<table>
<thead>
<tr>
<th>Exam Code</th>
<th>Exam Title</th>
<th>Exam Score</th>
<th>SIUE Equivalent</th>
<th>SIUE Course Attributes</th>
<th>Awarded Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP 34</td>
<td>Microeconomics</td>
<td>3, 4, 5</td>
<td>ECON 112 - Principles of Microeconomics</td>
<td>BSS</td>
<td>3</td>
</tr>
<tr>
<td>AP 35</td>
<td>Macroeconomics</td>
<td>3, 4, 5</td>
<td>ECON 111 - Principles of Macroeconomics</td>
<td>BSS3</td>
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<td>3, 4, 5</td>
<td>HIST 112A - World History to 1500 or</td>
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<td>HIST 112B - World History 1500 to Present</td>
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<td>AP 43</td>
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<td>United States Government and Politics</td>
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<td>AP 58</td>
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**Math and Computer Science**

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<td>CS 140 - Introduction to Computing I</td>
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<td>AP 31</td>
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<td>AP 68</td>
<td>Calculus BC</td>
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<td>MATH 150 - Calculus I AND MATH 152 - Calculus II</td>
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**Sciences**

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<td>BIOL 111 - Contemporary Biology</td>
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<td>AP 40</td>
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<td>AP 84</td>
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<td>AP 84</td>
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<tr>
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<td>PHYS 151 - University Physics</td>
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<tr>
<td>AP 82</td>
<td>Physics C - Electricity and Magnetism</td>
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<td>AP 82</td>
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**World Languages and Cultures**

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<th>Course Notes</th>
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<tr>
<td>AP 28</td>
<td>Chinese Language and Culture</td>
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<td>CHIN 101 - Elementary Chinese I</td>
<td>BICS, FL, HUM</td>
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<tr>
<td>AP 48</td>
<td>French Language and Culture</td>
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<td>FR 101 - Elementary French I</td>
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<tr>
<td>AP 55</td>
<td>German Language and Culture</td>
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<td>GER 101 - Elementary German I, GER 102 - Elementary German II, GER 201 - Intermediate German I AND GER 202 - Intermediate German II</td>
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<td>AP</td>
<td>Language and Culture</td>
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<td>60</td>
<td>Latin</td>
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<td>LAT 101 - Introduction to Latin I, LAT 102 - Introduction to Latin II, LAT 201 - Intermediate Latin I AND LAT 202 - Intermediate Latin II</td>
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<td>87</td>
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<td>SPAN 101 - Elementary Spanish I, SPAN 102 - Elementary Spanish II, SPAN 201 - Intermediate Spanish I AND SPAN 202 - Intermediate Spanish II</td>
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<td>87</td>
<td>Spanish</td>
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<td>SPAN 101 - Elementary Spanish I AND SPAN 102 - Elementary Spanish II</td>
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</table>
**Art and Design**

Students scoring a 3, 4 or 5 on the AP Drawing, AP 2-D Design, or AP 3-D Design Portfolio exams may arrange to bring their complete portfolio/s to the Art and Design Department for faculty review. If the review is favorable, students will receive credit for the comparable SIUE course indicated. [Process: Students should go to the Instructional Services (SSC 1256) indicating which Art studio course they wish to receive credit, pick up the proficiency form, submit to Art & Design (AD 1101) and set up appointment to show portfolio. If credit is awarded, it will be posted as SIUE proficiency credit.]

**Chemistry**

Students scoring a 3 or 4 must have successfully petitioned the Chemistry Department for lab credit (CHEM 125A and/or CHEM 125B). Chemistry will notify the Office of the Registrar that lab credit should be granted. Students scoring a 5 will automatically be awarded the lab credit. [Process: Students should go to instructional services (SSC 1256), pick up proficiency form, submit to Chemistry Chair (SL 2325) and set up appointment to show high school chemistry information such as lab notes, text book, etc. Student may need to demonstrate lab technique by taking a proficiency exam. If credit is awarded, it will be posted as SIUE proficiency credit.]

Students should send official results of advanced placement examinations to the Office of the Registrar. Credit earned through Advanced Placement examinations may be applied toward the 120 hours required for graduation. Please note this credit is not used in computing the SIUE grade point average. Advancement Placement credit granted at another accredited university or college is transferable to SIUE. Advanced Placement examinations are considered proficiency examinations. See the section about proficiency examinations in this catalog.

**College Level Examination Program (CLEP)**

SIUE will grant credit to students for successful completion of College Level Examination Program (CLEP) tests under the following conditions:

- A maximum of 32 hours of CLEP credit is applicable toward a baccalaureate degree. For information regarding general education credit for CLEP examinations, please refer to the section titled Proficiency Examinations for General Education Credit.
- Credit will be awarded for a CLEP subject examination when approved by the SIUE department offering a comparable course.
- Test credit will not be allowed when students previously have received credit for comparable courses or when currently enrolled in a comparable course.
- Students may take the tests before enrolling at the University. Final recording of credit on the SIUE record is contingent upon matriculation at the University and acceptable scores.
- When approved, credit will normally be awarded for subject examinations on the basis of the number of credit hours in the pertinent courses.

CLEP exams are available by computer only. For information, please call Testing Services at 618-650-1246 or follow the link to CLEP on the testing web page at siue.edu/testing. Persons who wish to apply for credit through SIUE should have official results sent to the Office of the Registrar.

| AP 89 | Spanish Literature and Culture | 4 | SPAN 101 - Elementary Spanish I AND SPAN 102 - Elementary Spanish II | 8 |
| AP 89 | Spanish Literature and Culture | 3 | SPAN 101 - Elementary Spanish I | BICS, FL, HUM | 4 |

### Capstone

<p>| AP 22 | AP 22 Seminar | 3, 4, 5 | TRF XXXX - General Elective | N/A | 3 |
| AP 23 | AP Research | 3, 4, 5 | TRF XXXX - General Elective | N/A | 3 |</p>
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<td>BHUM</td>
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<td>Applications</td>
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<td>Composition and Literature</td>
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<td>American Literature</td>
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<td>ENG 1XX - American Literature</td>
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<tr>
<td>Analyzing and Interpreting Literature</td>
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<td>ENG 1XX - Analyzing and Interpreting Literature</td>
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<td>History and Social Sciences</td>
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<td>American Government</td>
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<td>PSYC 111 - Foundations of Psychology</td>
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<td>Introduction to Educational Psychology</td>
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<td>CHEM 120A - General Organic, and Biology Chemistry AND CHEM 124A - General Organic, and Biological Chemistry Lab</td>
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<td>Mathematics with Trigonometry</td>
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</table>
Accountancy, Biological Sciences, Chemistry, Computer Sciences, Mathematics & Statistics, or Physics Majors at SIUE should be alert to restrictions in credit granted through CLEP. No credit toward graduation can be earned through CLEP after credit has been received for more advanced work in the subject. This chart may also be found at siue.edu/transfer.

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<td>TRF 3XX - Business and Society</td>
<td>HUM</td>
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<td>Management &amp; Information Systems (B)</td>
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<td>CMIS 108 - Computer Concepts and Applications</td>
<td>BICS</td>
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<td>PHIL 3XX - Ethics in America</td>
<td>BHUM, EUSC</td>
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B- Lower Division                                  BU - Upper Division
## DANTES/DSST Examinations

SIUE will grant credit to students with passing scores. Credit granted for DANTES/DSST and CLEP is subject to a maximum of 32 hours toward a baccalaureate degree. See [siue.edu/transfer/](http://siue.edu/transfer/) for details.

## International Baccalaureate Credit

Students who wish to seek International Baccalaureate (IB) credit transferred should apply through the International Baccalaureate Organization. This credit is not used in computing the grade-point average. IB credit transcribed as college courses from previous accredited college or university is transferable.

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<tr>
<td>Math Studies</td>
<td>Standard</td>
<td>4-7</td>
<td>TRF XXXX - Math Studies SL</td>
<td>N/A</td>
</tr>
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<td>Mathematics</td>
<td>Standard</td>
<td>4-7</td>
<td>TRF XXXX - Mathematics SL</td>
<td>N/A</td>
</tr>
<tr>
<td>Music</td>
<td>Standard</td>
<td>4-7</td>
<td>MUS 111 - Introduction to Music History/Literature</td>
<td>BFPA</td>
</tr>
<tr>
<td>Department</td>
<td>Type</td>
<td>Credit Hours</td>
<td>Course Code</td>
<td>Grade Points</td>
</tr>
<tr>
<td>------------------------------------</td>
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<td>--------------</td>
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<td>--------------</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>PHIL XXXX - Philosophy SL</td>
<td>N/A</td>
</tr>
<tr>
<td>Physics</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>PHYS 151 - University Physics I</td>
<td>BPS</td>
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<td></td>
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<td></td>
<td>PHYS 151L - University Physics I Lab</td>
<td>BPS, EL</td>
</tr>
<tr>
<td>Psychology</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>PSYC 111 - Foundations of Psychology</td>
<td>BSS</td>
</tr>
<tr>
<td>Social and Cultural Anthropology</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>ANTH 111B - Human Culture &amp; Communication</td>
<td>BSS, EGC, EUSC</td>
</tr>
<tr>
<td>Spanish A: Language &amp; Literature</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>SPAN 101 - Elementary Spanish I</td>
<td>BICS, FL, HUM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPAN 102 - Elementary Spanish I</td>
<td>BICS, FL, HUM</td>
</tr>
<tr>
<td>Spanish B: Literature</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>SPAN XXXX - Spanish A: Literature SL</td>
<td>BHUM</td>
</tr>
<tr>
<td>Sports, Exercise &amp; Health Science</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>KIN 270 - Personal Wellness</td>
<td>EH</td>
</tr>
<tr>
<td>Theater</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>TRF XXXX - Theater SL</td>
<td>N/A</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>ART 111 - Introduction to Art</td>
<td>BFPA</td>
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<tr>
<td>World Religions</td>
<td>Standard (SL)</td>
<td>4-7</td>
<td>PHIL 234 - World Religions</td>
<td>BHUM, EGC</td>
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</tbody>
</table>

*ART 111 and ART 112B can be equated after favorable portfolio review*

Please submit official test scores to:
Southern Illinois University Edwardsville
Attn: Service Center
Campus Box 1080
Edwardsville, IL 62026-1080

to SIUE. See siue.edu/transfer for details.

Courses for which earned hours credit may be awarded through IB Credit are the following:

**Military Prior Learning Credit**
Students who are veterans or service members are eligible to receive academic credit for military training/education programs. Credit is awarded based on American Council on Education (ACE) recommendations and appropriate application to the student’s program of study.

Evaluation of military prior learning done in the Office of the Registrar-Transfer Center, Rendleman Hall, Room 1218. More information may be obtained at siue.edu/transfer/plan.shtml.

**Grading System**
The University uses the following grading symbols:

- **A** Excellent — 4 credit points
- **B** Good — 3 credit points
- **C** Satisfactory — 2 credit points
- **D** Poor — 1 credit point
- **F** Failure
- **AU** Audit — no grade or credit hours earned
- **DE** Deferred — used only for the first semester course of a two-semester Senior Assignment sequence.
- **H** Passed with Honors
- **I** Incomplete - all work required for the course during the term was not completed; students have the permission of the instructor to do so within a specified time period. For more information about the incomplete grade policy, see the section titled Incomplete Grades.
- **PR** Progress — awarded only for foundation courses. PR grades are not included in grade point average calculations. To earn credit for a course in which a PR grade was earned, students must repeat the course and earn a passing grade.
Pass — used for courses taken under Pass/No Credit option.

NC No Credit — used for courses taken under Pass/No Credit option; no credit hours earned.

NS Non attendance — used when the instructor has no record of attendance or active participation.

S Satisfactory — used for noncredit courses and thesis and may be used for internships or practica at the program’s discretion.

U Unsatisfactory — used for noncredit courses and thesis and may be used for internships or practica at the program’s discretion.

UW Unauthorized Withdrawal — calculated as an F in grade average.

W Withdrawal. Authorized withdrawal — work may not normally be completed.

WP Withdrew Passing.

WF Withdrew Failing — calculated as F in grade average.

WR Withdrawal by Registrar.

For more information about withdrawal grades and procedures, refer to the sections titled Changes in Registration and Withdrawing from the University.

Grade Point Average (GPA) Calculation

Only SIUE courses are used in calculating the cumulative grade point average (GPA). The GPA is calculated as follows:

A — 4 Points
B — 3 Points
C — 2 Points
D — 1 Point
F — 0 Points

AU — Audit (0 Points)
DE — Deferred (0 Points)
I — Incomplete (0 Points)
H — Passed with Honors (0 Points)
PR — Progress (0 Points)
P — Pass (0 Points)
NC — No Credit (0 Points)
NS — Non attendance (0 Points)
S — Satisfactory (0 Points)
U — Unsatisfactory (0 Points)
UW — Unauthorized Withdrawal (0 Points)
W — Withdrawal (0 Points)

Quality hours are awarded for courses with grades of A, B, C, D, F, UW, and WF.

- The quality hours column is totaled.
- The quality points column is totaled.
- Total quality points are divided by the total quality hours. Grade point averages are rounded to the third decimal.

Example

<table>
<thead>
<tr>
<th>Courses</th>
<th>Quality Hours</th>
<th>Grades</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD 075A</td>
<td>0</td>
<td>P(0)</td>
<td>0.0</td>
</tr>
<tr>
<td>AD 090A</td>
<td>0</td>
<td>NC(0)</td>
<td>0.0</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>3</td>
<td>A(4)</td>
<td>12.0</td>
</tr>
<tr>
<td>ACS 101</td>
<td>3</td>
<td>F(0)</td>
<td>0.0</td>
</tr>
<tr>
<td>THEA 141</td>
<td>3</td>
<td>B(3)</td>
<td>9.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
<td></td>
<td><strong>21.0</strong></td>
</tr>
</tbody>
</table>

Twenty-one (21) quality points divided by 9 quality hours yields a 2.333 GPA (grade point average).

Incomplete Grades

A grade of I (Incomplete) may be awarded when a student has completed most of the work required for a class but is prevented by a medical or similar emergency from completing a small portion of the course requirement. Unless instructors have specified a shorter period of time, incomplete grades not completed within one year will automatically be changed to an F (graduation in the meantime notwithstanding). Instructors who specify a shorter period of time must communicate that stipulation in writing, with copies to the registrar, the department chair, and the student, at the time the incomplete is granted. Students who feel that mitigating circumstances justify an extension of the time limit may petition the faculty member who granted the incomplete. Faculty members who agree to grant extensions must inform the student, the department Chair, and the Registrar. Students completing work for a course in which they have a grade of Incomplete should not formally re-enroll in that course, but should meet with their instructor to determine requirements for completing the course.

Pass/No Credit

Under the Pass/No Credit option, students receive a Pass for grades A, B, C, and No Credit for grades of D or F. At the time of requesting Pass/No Credit, students may stipulate that they would rather receive the grade of D than No Credit.
Pass/No Credit is limited to courses outside general education requirements and major and minor requirements. Students may enroll in no more than 9 hours of undergraduate coursework under the pass/no credit option. These limitations do not apply to courses offered only for Pass/No Credit.

A decision to take a course on a Pass/No Credit basis must be declared no later than the eighth week of the fall or spring term and the sixth week of the summer session, and must be approved by the advisor. Undergraduate students registering for a course for credit may change to or from audit status during the first six weeks of fall or spring terms and through the first four weeks of the summer term. Thereafter, no change may be made. Some graduate schools and employers consider Pass equivalent to a C grade.

Auditing Courses
You may register for Audit status for courses, but will receive neither a letter grade nor credit. Students auditing classes pay the same tuition and fees as those registered for credit. If auditing students do not attend regularly, the instructor may determine that they should not receive “AU” grades for the courses.

Veterans attending under the GI Bill do not receive benefits for audited classes. Illinois State Assistance Commission Monetary Award and Pell (Basic) Grant recipients may not include audit classes as part of the total hours to qualify for payment.

Repeated Courses
Students may repeat courses at SIUE under the following conditions and restrictions:

- When a course is repeated, only the grade earned in the final attempt will be used in computing the grade point average. All grades will appear on the transcript.
- Credits earned for any course will be applied only once toward degree requirements, no matter how often the course is repeated.
- Students will not be permitted to repeat for credit a course which is a prerequisite for a course already successfully completed.
- Courses may not be repeated more than three times.

The University is not obligated to offer a course simply to provide students an opportunity to repeat a previously attempted course. Additionally, individual academic units and programs may set more stringent conditions and restrictions regarding repeated courses.

Final Examinations
Students who have more than two final examinations scheduled for the same day, or who have two examinations scheduled for the same time, may request that one of the examinations be rescheduled. This can be accomplished by submitting a written request to the Assistant Vice Chancellor for Enrollment Management, in Rendleman Hall, Room 1207. The request must include the student’s name, student identification number, and list of scheduled courses, and must be received by the Assistant Vice Chancellor for Enrollment Management at least two weeks before the first day of the examination period.

Transcripts
Students may request official copies of their SIUE academic record, provided they have fulfilled all financial obligations to the University. Transcripts may be requested in person at the Bursar’s Office, by mail, by fax or online through our third party vendor, Credentials, Inc. Unofficial copies are available on CougarNet. Telephone requests for transcripts cannot be honored. If you order in person, by mail or by fax, the fee is $5 per transcript. If you order online the fee is $7.50 per transcript. Note that transcripts requiring electronic delivery may only be requested online. Visit www.siue.edu/registrar for more information regarding transcript requests.

Academic Probation and Suspension
If you have a cumulative grade point average of 2.00 or above, you are in good academic standing.

If your cumulative grade point average falls below 2.00, you will be placed on academic warning and will be subject to the restrictions placed on warning students. You will receive notification of this status and information regarding the Academic Warning, Probation and Suspension policy. Upon warning, you will no longer hold major status. If you are on academic warning, you are required to receive intensive academic counseling and advising during the next term of enrollment. An advisor will help you identify solutions and develop a plan of action. If you are on academic warning, you will not be returned to good standing until your cumulative average is 2.00 or higher.

If you are on academic warning and fail to attain a 2.00 term average, you will be placed on academic probation. While on probation, you will be required to enroll in an appropriate college success course as determined by your advisor.
If you are on academic probation and fail to attain a 2.0 term average, you will be placed on academic suspension. You will be ineligible to enroll for at least one term (fall, spring or summer). After one semester, you may return to SIUE. You will be required to meet with an advisor three times during the term. You will resume probation during your return enrollment.

If you are suspended for a second time, you must submit an appeal for reinstatement to be considered for return. You may re-enroll only upon favorable action by the Suspension Appeals Committee, provided that you agree to the stipulations, if any, set by the committee and that you agree to work closely with an advisor in Academic Advising. You and your advisor in Academic Advising must reach agreement upon a plan of action. Suspended students who have been permitted to re-enroll will return on probation. Students who are suspended a third time are ineligible to return to the university.

Plan of Action
A plan of action consists of specific steps designed to promote your successful return to good standing. A plan of action may include:

- Reduction in number of credit hours attempted;
- Change in academic major;
- Enrollment in courses prescribed by the advisor, e.g., writing, reading, study skills;
- Enrollment in courses in which you previously received a failing grade;
- Career counseling;
- More frequent meetings with advisor;
- Other advisor-recommended measures.

Academic Recognition
Students who demonstrate outstanding scholarship are included on the Deans’ List and recognized at Honors Convocation and Commencement.

To be included on the Dean’s List, a student’s term quality hours must be equal to or greater than 12 with a minimum grade point average of 3.5 for the term. Credit earned for out-of-class proficiency is not used in qualifying for the Dean’s List (published at the end of each term).

Graduating seniors who have achieved outstanding scholarship are recognized at Commencement in the graduation program; their diplomas and insignia on their regalia designate summa cum laude (3.9 or higher), magna cum laude (3.75-3.89), or cum laude (3.50-3.74).

Graduation
Undergraduate students may elect to complete their degree under the requirements that appear in the undergraduate catalog in force at the time of their original matriculation as SIUE degree-seeking students or, subject to the approval of an academic advisor, may elect the requirements that appear in a succeeding catalog. This policy is subject to the following: No student may graduate under general education major or minor requirements published in a catalog more than seven years old without the written permission of the Dean of the college or school of the student’s major or first major. Written permission shall be submitted to the Registrar with the application for graduation.

A student may satisfy general education requirements from one catalog and major or minor requirements from a second catalog, provided that neither catalog exceeds the seven-year limit stated above. Bachelor’s degree candidates are expected to satisfy all general education requirements as well as all requirements for their academic major and any academic minor. Students intending to teach must meet the requirements for teacher certification. In addition, all candidates for a bachelor’s degree must satisfy all other University requirements, including a senior assignment (see Assessment and the Senior Assignment), and maintain a minimum grade point average of 2.00 for work completed at SIUE. Academic program requirements may exceed University requirements.

Candidates for the degree must complete a minimum of 120 hours of credit in approved courses. Students transferring from an accredited two-year institution must earn at SIUE, or at any other accredited four-year institution, at least 60 of the semester hours required for the degree. All candidates for the degree must complete a minimum of 30 semester hours in residence at SIUE. Written requests for exceptions should be directed to the Graduation Appeals Committee through the Registrar. Students are responsible for meeting all degree requirements and financial obligations.

Application for Graduation
Candidates for a baccalaureate degree should file an application for graduation at the
beginning of their senior year. Applications may be completed in person at the Service Center or through CougarNet.

Once a completed application is received, graduation evaluations are performed. The Registrar determines completion of general education and University degree requirements, while the major and minor requirements are established and reviewed by the academic department through which the degree is sought. Students also must satisfy all outstanding financial obligations to the University. Diplomas will not be issued for students with outstanding financial obligations.

Applications must be submitted no later than the first day of the term in which you plan to graduate. All graduation requirements must be completed by the last day of the graduation term. Commencement ceremonies are held at the end of each fall and spring term. Attendance at the exercises is voluntary; however, you will not be eligible to participate unless you have applied for graduation and it has been determined that you will complete degree requirements by the end of the term in which you have applied for graduation. Summer degree candidates may be eligible to participate in the preceding spring commencement ceremony if no more than 9 hours remain for degree completion at the conclusion of spring term. Summer degree candidates wishing to participate in the preceding spring commencement ceremony must have their application for graduation on file by the first day of the spring term.

Participation in a commencement ceremony does not guarantee that degree requirements have been completed. Once you have participated in a commencement ceremony, you may not participate in another commencement ceremony for the same degree. A graduation fee of $60 is payable at the time of application. The fee does not cover the cost of the cap and gown. These items are purchased through the University Bookstore in the Morris University Center. Questions regarding the cap and gown and invitations are referred to the bookstore.

**Second Baccalaureate Degree**

Students seeking a second baccalaureate degree must complete a minimum of 30 semester hours beyond completion of the first degree and must satisfy the requirements of the major of the second degree. At least 15 of these hours must be in residence at SIUE.
Financial and Scholarship Information

Financial Aid Services
Student Financial Aid offers the following services to help finance your education at SIUE:

- General information by phone, e-mail, or in person;
- One-on-one advising on a walk-in basis;
- Review for special circumstances (e.g. death of wage earner, divorce, loss of job);
- Websites at siue.edu/financialaid and siue.edu/studentemployment;
- Online Student Job Finder at siue.edu/studentemployment;
- Online record of required documents and awards offered/paid at siue.edu/cougarnet; and
- Short-term loans for educational expenses.

Planning for University Costs
When you are planning for University costs, it is important to research several factors:

- Available financial aid programs and eligibility requirements;
- Steps to apply;
- Application deadlines;
- Cost of tuition and fees and other expenses;
- Date payments are due versus date financial aid will be disbursed; and
- Student responsibilities related to receiving financial aid.

Eligibility for Financial Assistance
To be eligible for federal and state of Illinois financial aid programs, an undergraduate must:

- Have a Social Security number;
- Be a U.S. citizen or eligible non-citizen;
- Be registered with Selective Service (if required);
- Be working toward a degree offered by the University, or teacher certification;
- Be enrolled in at least six hours each semester for which you wish financial aid (fall, spring and summer);
- Demonstrate financial need;
- Maintain satisfactory academic progress; and
- Owe no refund on a federal grant and not be in default on a federal student loan.

Note: most international students do not meet citizenship requirements for financial aid programs administered by the Office of Student Financial Aid. International students should contact the Office of International Admissions at (618) 650-3705 for information about financial assistance.

Applying for Financial Assistance
If you are applying for need-based financial aid, you should submit the Free Application for Federal Student Aid (FAFSA) on or as soon after October 1 as possible each year to be considered for all programs, and list SIUE (code 001759) to receive the processed information. If you apply after December 1, you will find that funds in some programs are no longer available. In addition, students who apply after February 1 should be prepared to make their first fall tuition payment (usually due in the middle of August) in order to prevent being dropped from their classes. Due to the large number of financial aid applications, students who file after February 1 may not have their financial aid available for the first fall payment due date. The FAFSA application may be submitted online at fafsa.ed.gov.

All undergraduates applying for financial aid with a FAFSA will automatically receive consideration for the Pell Grant, the primary undergraduate grant program. Illinois residents also will be considered for the state’s Monetary Award Program (MAP).

Definition of Independent Student
For federal and state of Illinois programs, you are considered independent if at least one of the following criteria describes you:

- Born before January 1, 1995;
- Married as of the date of filing;
- A veteran of the U.S. armed forces or currently serving on active duty;
- At the beginning of the 2018-2019 academic year, will be enrolled in a graduate or professional program;
- At any time since age 13, were an orphan, in foster care, or were a ward of the court;
- Have children for whom you will provide more than half of their support;
- Have legal dependents other than a spouse or children for whom you will provide more than half of their support;
prior to turning 18 were an emancipated minor as determined by a court in your state of legal residence;

prior to turning 18 had a legal guardian as determined by a court in your state of legal residence; or

at any time on or after July 1, 2017, were determined by your high school or school district homeless liaison, HUD, or the director of a homeless youth center to be an unaccompanied youth who was homeless.

Determining the Financial Aid Package

The Office of Student Financial Aid assesses your financial need and determines the programs for which you are eligible. An offer of financial aid, or financial aid package, which includes awards from the programs for which you are eligible, is then available to you on CougarNet. Your financial need and awards are determined as described below:

A budget is assigned that reflects such factors as place of residence and your academic program. The budget includes tuition, fees, room and board, books and supplies, transportation, and living and personal expenses. The Expected Family Contribution (EFC) is a result of the federal processor calculating all the information contained in the FAFSA, including family income and assets, and is sent to the Office of Student Financial Aid by the federal FAFSA processor. The EFC is subtracted from the school year budget assigned to you by the school. From that amount is subtracted any private scholarships, veteran benefits, and/or third-party payments. The remaining amount is your financial need and is the maximum amount you can receive from all financial aid programs except the Federal Unsubsidized Loan and the PLUS Loan.

Once financial need is determined, you are considered initially for grant eligibility, then for work-study, and finally for loans. Students who submit the FAFSA on or soon after October 1 will be considered for all programs. In the awarding of SIUE-administered need-based grants, on-time applicants are ranked in order of greatest need, and awards are made on the basis of the size of financial need. If funds are still available after these students are awarded assistance, additional students will be considered.

If you have significant changes in your family financial situation (death, disability, divorce, or other extreme circumstances) after filing your forms, you may request a review of your application called a Special Circumstance. Additional assistance may be awarded based on available funds. Contact the Office of Student Financial Aid for more information.

Paying the Semester Bill with Financial Aid

To use financial aid as credit for paying the semester bill, follow these basic steps:

- Apply for financial aid at least four months before the term for which you wish financial aid to cover the costs.
- Register for at least half time each semester for which you wish financial aid—fall, spring, and summer (6 hours for undergraduates and 5 hours for graduate students).
- Access your award letter on CougarNet.
- Confirm acceptance of your awards on CougarNet as directed in the information provided online.
- If appropriate, go online to complete entrance loan counseling and the Electronic Master Promissory Note (EMPN).
- Have adequate financial aid to cover all new charges for the term and all balances due from a prior term.
- Have no “holds” on your records from the Office of Student Financial Aid, Records, Office of the Bursar, or the Office of the Vice Chancellor for Student Affairs (for example, satisfactory progress termination, bad check, disciplinary hold). In most cases, students who apply for financial aid on or soon after October 1, accept their financial aid awards by mid-June, and register for classes by the end of June will receive credit for their grants, scholarships, waivers, and loans on the first fall semester bill. Students with no past-due charges are considered financially cleared for the next term in one of two ways: 1. Sufficient financial aid (grants, scholarships, waivers, and/or loans), covering 100 percent of the charges for the term, is applied to the student’s Bursar account by the first payment deadline; or 2. Financial aid is applied to the student’s Bursar account and the student pays the first installment payment appearing on the bill by the first payment deadline.

Being financially cleared allows a student to have his/her ID validated and use SIUE services such as the library and fitness center, and protects his/her class schedule from cancellation due to non-payment.
Withdrawal with Financial Assistance
Students who are registered and need to fully withdraw from classes for the term must initiate the withdrawal process in the Service Center. Withdrawal during the 100 percent refund period cancels your obligation to pay tuition and fees for the term. However, students who receive Title IV financial aid (Pell, TEACH, SEOG, direct loans, and/or Perkins loans) and withdraw completely are subject to the federal Return of Title IV Funds policy. The policy states that students “earn” their financial aid on the basis of the portion of the semester in which the student is enrolled; SIUE also “earns” a portion of the financial aid. Aid that is determined to be “unearned” by the student and/or the university must be returned to the appropriate Title IV program. Students who are subject to Return of Title IV Funds will be notified by the Office of Student Financial Aid of any award changes and instructed to view their balance owed to SIUE on CougarNet.

Grants
Grants normally are awarded to students with significant financial need in combination with work-study and loans as part of the financial aid package. The federal Pell and Supplemental Educational Opportunity Grants, as well as the Illinois MAP grant and the Student-to-Student Grant, are awarded based on information provided on the FAFSA. To receive federal, Illinois, or institutional grant assistance, a student must not be in default on any student loan and not owe a refund on any state or federal grant.

Federal Pell Grant
This federally sponsored program helps eligible undergraduate students to meet educational expenses when parental or student resources are insufficient. The Pell Grant program is used as the base in determining the total financial assistance “package” of an undergraduate student.

Federal Supplemental Educational Opportunity Grant
The Federal Supplemental Educational Opportunity Grant program helps students with extreme financial need (i.e., eligible for Pell Grant) who would be unable to enter or remain in school without this grant. At SIUE, annual awards are for a maximum $1,400.

Illinois Monetary Award Program
The Monetary Award Program (MAP) provides for full or partial payment of in-state tuition and fees, based on significant financial need, to Illinois resident undergraduate students enrolled in at least 3 hours during the fall and spring semesters. To be considered, students must submit the FAFSA before the MAP deadline and list SIUE as their first-choice institution. Additional information is available from the Illinois Student Assistance Commission at isac.org and the front page of the FAFSA On The Web Worksheet.

Illinois National Guard Program
Detailed information can be found at the Office of Veteran Services website at siue.edu/veterans. Members of the Illinois National Guard are eligible to receive a grant for payment of tuition, the activity fee, and the graduation fee for undergraduate or graduate students after one full year of service in the Illinois National Guard as an enlisted person or company grade officer up to the rank of captain. Recipients must maintain good academic standing during the period of the award. For full-year award consideration, candidates should apply to the Illinois Student Assistance Commission (ISAC) by October 1 of the academic year for which assistance is being requested. The application is available online as an interactive application on the ISAC website at isac.org along with complete details of the program. Awards are available for a maximum of 8 full-time semesters for qualified applicants who have completed less than 10 years of active duty Illinois National Guard service. The benefit is extended up to an additional 4 full-time semesters for qualified applicants who have completed ten years or more of active duty Illinois National Guard service; no minimum enrollment is required.

Illinois Veterans Grant
Detailed information can be found at the Office of Veteran Services website at siue.edu/veterans. Veterans who qualify for the Illinois Veteran Grant (IVG), which covers tuition, and most mandatory fees, may use it concurrently with GI Bill benefits. This grant is available to graduate or undergraduate students who have at least one full year of full-time active duty in the U.S. armed forces, are honorably discharged, and meet the IVG residency requirements. Any veteran who resided in Illinois within six months before entering the service and returned to Illinois within six months of discharge from the service may be eligible. Student must reside in Illinois unless the student is serving federal active duty service at the time of enrollment in

Grants

Federal Pell Grant
This federally sponsored program helps eligible undergraduate students to meet educational expenses when parental or student resources are insufficient. The Pell Grant program is used as the base in determining the total financial assistance “package” of an undergraduate student. For full-year award consideration, candidates should apply to the Illinois Student Assistance Commission (ISAC) by October 1 of the academic year for which assistance is being requested. The application is available online as an interactive application on the ISAC website at isac.org along with complete details of the program. Awards are available for a maximum of 8 full-time semesters for qualified applicants who have completed less than 10 years of active duty Illinois National Guard service. The benefit is extended up to an additional 4 full-time semesters for qualified applicants who have completed ten years or more of active duty Illinois National Guard service; no minimum enrollment is required.

Illinois Veterans Grant
Detailed information can be found at the Office of Veteran Services website at siue.edu/veterans. Veterans who qualify for the Illinois Veteran Grant (IVG), which covers tuition, and most mandatory fees, may use it concurrently with GI Bill benefits. This grant is available to graduate or undergraduate students who have at least one full year of full-time active duty in the U.S. armed forces, are honorably discharged, and meet the IVG residency requirements. Any veteran who resided in Illinois within six months before entering the service and returned to Illinois within six months of discharge from the service may be eligible. Student must reside in Illinois unless the student is serving federal active duty service at the time of enrollment in
least half-time (minimum 6 hours). Students qualify for a subsidized loan based on financial need. Repayment begins six months after a student graduates, leaves school, or drops below half-time. Interest on subsidized loans does not begin accruing until graduation, termination of studies, or a drop below half-time enrollment. Undergraduates may borrow up to $3,500/year as a freshman, $4,500/year as a sophomore, and $5,500/year as a junior or senior. For periods of undergraduate study of less than a year, the amount a student can borrow may be less than noted above. Students enrolled for only one semester in an academic year should see a financial aid advisor to determine how much they can borrow. Most students are limited to borrowing their annual maximum across three terms (fall, spring, summer). The fixed interest rate is determined every July 1.

**Federal Direct Unsubsidized Stafford Loans**

The unsubsidized federal loan program is similar to the subsidized loan program (described above); however, students are not required to have financial need for these loans. Unsubsidized loans are appropriate for students with no financial need or very moderate need. A minimum of $2,000 unsubsidized loan will be offered to students. Independent undergraduates may borrow an additional $4,000-$5,000/year of unsubsidized loan, compared to a dependent student. For students whose financial need (or eligibility for a subsidized loan) is less than the maximum for their class standing, it is possible to receive a federal loan partly based on financial need (subsidized) and partly not based on financial need (unsubsidized). The difference between these two loans is the repayment terms. Repayment for unsubsidized loans can be deferred until after graduation, but the interest begins to accrue while the borrower is in school. The fixed interest rate on an unsubsidized loan is determined every July 1.

**Federal PLUS Loan**

Federal PLUS loans enable parents with good credit histories to borrow for each son or daughter who is enrolled at least half-time and is a dependent student. An eligible parent may borrow the cost of education (as defined by SIUE) minus any estimated financial aid the son or daughter may be receiving. The fixed interest rate is determined every July 1. Parents may defer repayment of the PLUS loan until the student begins repayment; however, interest begins to accrue upon disbursement of the loan.

**Loans**

Loans are available to SIUE students through federal, state, and institutional programs to assist with educational costs. Some loans require financial need, but others are available to students with no financial need.

**Illinois Bonus Incentive Grant**

Holders of Illinois College Savings Bonds for at least 12 months may be eligible for a non-need based grant if the bond proceeds are used to pay for educational expenses. Grant amounts range from $40 to $440 per $5,000 of compound accreted value at maturity, depending on the maturity of the bond. The program is dependent on funding from the Illinois General Assembly. A bondholder must apply between August 1 and May 30 of the academic year in which the bond was redeemed or in the academic year immediately following the redemption. Funds have not been appropriated by the Illinois General Assembly for this program since the 2011-2012 academic year. Additional information is available from the Illinois Student Assistance Commission at isac.org.

**Other Illinois Grants**

Grants also are available to spouses and children of Illinois police or fire officers killed or permanently disabled in the line of duty, and to spouses and children of state of Illinois Department of Corrections officers killed or permanently disabled in the line of duty. Recipients must be enrolled in undergraduate courses at least half-time, or 6 hours, each semester. The awards cover tuition and some fees, and are available for up to 8 semesters. Applications and additional information are available at isac.org.

**Student-To-Student Grant**

The Student-to-Student (STS) Grant is funded through a voluntary student fee assessed each term. Grants, ranging from $600 to $1,000 per year, are made to students based on financial need. Students may request a refund of their STS assessment by contacting the Office of the Bursar during the first two weeks of the term.

**Loans**

Loans are available to SIUE students through federal, state, and institutional programs to assist with educational costs. Some loans require financial need, but others are available to students with no financial need.
Alternative Loans
Alternative loans, also called private loans, are offered by lending institutions as an additional source of funds for higher education. We encourage you to pursue Federal Direct Stafford Loans before seeking Alternative Loans. These loans are not part of the federal government loan programs, but they are good options after other financial aid sources have been exhausted. Interest rates are variable and vary from lender to lender.

VA Educational Benefits
Detailed information can be found at the Office of Veteran Services website at siue.edu/veterans. SIUE is approved by the State Approving Agency for Veterans Education. Veterans who qualify for the Illinois Veterans Grant (through ISAC) may use this award concurrently with their VA benefits. Veterans do not normally receive VA educational benefits for the grades of W, WP, WF, No Show (NS), No Credit (NC), Audit (AU), and Progress (PR). However, under certain circumstances, the VA may authorize payment of VA benefits for these grades. Non-degree seeking students are not eligible for VA benefits. Veterans applying for VA benefits must obtain the necessary application forms from the Veterans Affairs Regional Office or from SIUE’s Veterans Certification Section, Records, Room 1207, Rendleman Hall. These forms, along with a copy of the Veteran’s DD-214 (Report of Separation from the Armed Forces) and certified proof of any dependents, such as marriage certificate or birth certificates of children, should be provided to Veterans Certification. This office in turn will complete the enrollment certification and mail it with the application to the Veterans Affairs Regional Office. Veterans who experience any changes in dependent status after receiving benefits must immediately notify the Veterans Administration Regional Office.

VA benefits are determined by the veteran’s length of active duty in service, number of dependents, enrollment status, “kickers” awarded by the branch of military service in which the veteran served, and other factors. Benefits for non-traditional courses may vary. Students attending courses that meet
Cougar Pride Scholarships
• Admission to the University by December 1
• Through a competitive process, up to $4,000 awarded annually as funding is available
• Freshmen must have a minimum 23 ACT (1130 SAT)
• Transfer students must have a minimum 3.0 GPA with minimum 24 semester hours in coursework that is transferable to SIUE or an associate degree
• Award is good for up to eight semesters; students must complete 12 credit hours per semester and maintain a 2.9 GPA

Johnetta Haley Scholarships
• Admission to the University by December 1
• Through a competitive process, $2,000 awarded annually as funding is available
• Freshmen must have a minimum 23 ACT (1130 SAT)
• Transfer students must have a minimum 3.0 GPA with minimum 24 semester hours in coursework that is transferable to SIUE or an associate degree
• For students from underrepresented backgrounds planning on careers in nursing, engineering, sciences, or teacher education; all persons are encouraged to apply
• Award is good for up to eight semesters; students must complete 12 credit hours per semester, 12 hours of volunteer service each semester, and maintain a 2.9 cumulative GPA

SIUE Grant
• Newly admitted freshmen entering in the fall semester; admission to the University by December 1
• FAFSA on file, preferential consideration is given to students completing the FAFSA as soon as possible beginning October 1
• Award up to $4,000 per academic year as funding is available; potential for renewal is based on financial need
• Awards made to the neediest students based on FAFSA results

International GEO
This is not a scholarship, but a tuition rate for qualified undergraduate, transfer and graduate international students. Students with this award will pay 1.2 times the in-state tuition rate instead of the 2.5 times normally assessed for international students. This award does
not apply to fees, room, board, or any other charges. Students are eligible for this award based upon their academic credentials and will be notified by the Office of International Admissions at the time of admission. Students who maintain good academic standing and continue to make appropriate progress toward a degree may receive the award until degree completion, as long as funding is available.

**International Legacy**
This is not a scholarship, but a tuition rate for undergraduate international students with alumni connections to SIUE (verified parent, grandparent, sibling, step-parent or guardian). Students with this award will pay the in-state tuition rate instead of the normal 2.5 times assessed as an international tuition rate. This award does not apply to fees, room, board, or any other charges. Students should contact the Office of International Admissions, Rendleman Hall Room 2120, Campus Box 1600, Edwardsville, IL 62026, (618)650-3705 or intladm@siue.edu for complete information.

**Athletics Scholarships**
SIUE offers scholarships to talented athletes in accord with National Collegiate Athletic Association rules and procedures. For information, contact the Director of Intercollegiate Athletics, Box 1129, SIUE, Edwardsville, IL 62026-1129

**ROTC Scholarships**
Both the Air Force and Army ROTC Programs at SIUE offer scholarships to qualified students. The scholarships may pay up to full tuition/fees and books, and some provide monthly subsistence allowances. Students should contact the appropriate unit for complete information: Air Force ROTC Program, Alumni Hall, Room 3340, SIUE, Edwardsville, IL 62026, (618) 650-3179; Army ROTC Program, Founders Hall, Room 3106, SIUE, Edwardsville, IL 62026, (618) 650-2500.

**Illinois Scholarships**
Illinois resident students may be eligible for scholarships administered by the Illinois Student Assistance Commission (ISAC). Applications and information about these programs are available from ISAC by calling 1-800-899-ISAC or online at isac.org. The number of scholarships, and individual dollar amounts awarded, are subject to sufficient annual appropriations by the Illinois General Assembly and the governor.

**Minority Teachers of Illinois Scholarship**
Students (of African-American/Black, Hispanic American, Asian American, or Native American origin) planning to become preschool, elementary, or secondary school teachers may qualify for up to $5,000 per year as part of the Minority Teachers of Illinois (MTI) Scholarship Program to pay for tuition, fees, and room and board, or commuter allowances, if applicable. As part of the application process, the applicant must agree to the terms and conditions in the application’s Teaching Agreement/ Promissory Note. Recipients of this scholarship must teach in Illinois. If this teaching obligation is not fulfilled, the scholarship converts to a loan, and the recipient must repay the entire amount plus interest. The Teacher Education Scholarship Program’s application, which must be submitted each academic year in order to apply for the Minority Teachers of Illinois (MTI) Scholarship program, is available online as an interactive application at isac.org. For priority consideration, a complete application must be received at ISAC on or before March 1 preceding the academic year for which the applicant is applying. For persons who are unable to apply electronically, and who receive ISAC approval for an alternate means of applying, the application received date will be based on the U.S. Postal Service postmark date.

**Illinois Special Education Teacher Tuition Waiver Program**
Teachers or academically talented students pursuing a career in special education as public, private, or parochial preschool, elementary, or secondary school teachers in Illinois may be eligible for the Illinois Special Education Teacher Tuition Waiver Program. This program will exempt such persons from paying tuition and mandatory fees at an eligible institution for up to four calendar years. Recipients of this scholarship must teach in Illinois. If this teaching commitment is not fulfilled, the scholarship converts to a loan, and the recipient must repay the entire amount plus interest. To apply, an Illinois Special Education Teacher Tuition Waiver Application must be obtained by requesting it from ISAC. See isac.org for contact information. Submit a complete application to ISAC’s Deerfield office postmarked on or before March 1 immediately preceding the initial academic year for which the tuition waiver is requested. Once eligible for the program, applicants need not reapply for consideration for additional years. Those who are eligible for the Illinois Special Education...
Teacher Tuition Waiver will receive a notice of eligibility by July 1.

**Golden Apple Scholars of Illinois (Illinois Scholars Program)**

Created in 1988 by the award-winning teachers of the Golden Apple Foundation, the Golden Apple Scholars of Illinois program recruits and prepares bright and talented high school graduates who represent a rich ethnic diversity, for successful teaching careers in high-need schools throughout Illinois, and provides scholarships to students pursuing teaching degrees. The Golden Apple Foundation is a not-for-profit organization based in Chicago. The foundation promotes excellence in Pre-K through 12 education through the work of excellent teachers. Golden Apple Scholars receive mentoring support from outstanding, award-winning teachers who are part of the Golden Apple network. In exchange for successful completion of undergraduate college and a commitment to teach for five years in an Illinois school of need, scholars receive financial assistance for four years to attend one of the 54 public and private universities across the state and to take part in summer programs that include teaching internships and enhanced teacher preparation. To apply, students must be nominated to be a Golden Apple Scholar of Illinois by a teacher, counselor, principal, or other non-family adult. Students also may nominate themselves. For more information about how to apply, go to isac.org.

**Merit Recognition Scholarship (MRS) Program**

Students who ranked in the top five percent of their high school class at the end of their third semester before graduation, or scored among the top five percent of scores in the ACT, SAT I or Prairie State Achievement Exam, may be eligible to receive $1,000 from the Merit Recognition Scholarship (MRS) Program. This one-time, non-renewable scholarship can be used to help pay for tuition, fees, or other educational expenses at any approved Illinois institution or one of the nation’s four approved Military Science Academies. There is no student application to complete for the MRS Program; high school counselors submit information to ISAC for the selection process. (Note: There is no monetary value at this time as this scholarship has not been funded since 2004-2005; scholastic recognition continues).

**MIA/POW Scholarship**

Detailed information can be found at the Office of Veteran Services website at siue.edu/veterans. Dependents of a person who was an Illinois resident at the time he or she entered active duty and has been declared to be a prisoner of war, missing in action, dead as a result of a service-connected disability, or disabled with a 100 percent disability as the result of a service-connected cause as recognized by the U.S. Department of Veterans Affairs or the U.S. Department of Defense, may be eligible to receive the MIA/POW Scholarship. This scholarship may be used at public colleges in Illinois and is administered by the Illinois Department of Veterans Affairs.

**Other Scholarships**

In addition to considering the scholarships listed, students may wish to contact their major departments or school/college at SIUE to determine whether funds are available. Also, students should check the Internet for scholarship information, consult the student newspaper for notices about scholarships provided by campus organizations, check with their employers or their parents’ employers for scholarship opportunities, or go to their local libraries for information. For institutional scholarships, visit siue.academicworks.com. The Office of Student Financial Aid’s website, siue.edu/financialaid, also contains several links for free, reputable scholarship search services, as does isac.org. Beware of scholarship scams, and never pay for a scholarship search.

**Satisfactory Academic Progress Policy for Financial Aid Recipients**

The following is an excerpt from the Satisfactory Academic Progress policy.

Eligibility to receive financial aid from federal Title IV aid programs requires that students maintain satisfactory academic progress. In response to requirements within the law for these programs, the University has developed this policy in addition to existing academic policies, and designated that it also be extended to selected state and institutional programs of assistance.

**Purpose**

The intent of this policy is to:

- ensure that students using financial aid programs are demonstrating responsible use of public funds in pursuit of their educational goals;
- set standards for monitoring all financial aid recipients’ course completion rates each term (or each year for dental medicine students), warning individual students when progress is
so slow that financial aid eligibility may run out before completion of the degree program; and

give students whose progress does not meet the standards of this policy at least one term of financial aid on a warning basis in which to improve their academic progress.

Definitions

**Attempted course** — a course that remains on the student's record after the first two weeks of the fall/spring term. Summer terms have different dates depending on the length of the course.

**Completed course/earned credit** — a course in which a grade of A, B, C, D, or P was received. Withdrawals (WP, WE, WF, W and UW), progress grades (PR), no show (NS), no credits, blank grades, incomplete grades (I), audits (AU), and failures (E, F) are not considered “earned credit” for meeting progress requirements.

**Developmental course** — a course with the prefix of “AD” or numbered “OXX” (not 100-level skills courses).

**Financial aid** — Including but not limited to the federal Title IV, state, and institutional programs listed below.

- Federal Pell Grant
- Federal Supplemental Educational Opportunity Grant
- Federal Work Study
- Federal TEACH Grant
- William D. Ford Federal Direct Loan (subsidized and unsubsidized)
- William D. Ford Federal Direct Parent PLUS Loan
- William D. Ford Federal Direct Graduate PLUS Loan
- Illinois Monetary Award Program (MAP)
- Illinois Special Education Teacher Tuition Waiver Program/MTI Scholarship Program
- SIUE Foundation Grant
- SIUE Foundation Loan
- SIUE Regular Student Employment
- SIUE Scholarships
- SIUE Grants
- SIUE Student-to-Student Grant
- SIUE Tuition Waiver

**Financial aid probation** — a status assigned to a student who fails to meet satisfactory academic progress and who has appealed that determination and has eligibility for aid restored.

**Financial aid warning** — A term in which a student who has been identified as not meeting one or more standards in this policy can continue to receive financial aid. If, at the end of the warning term, a student has achieved a cumulative completion rate greater than or equal to 67 percent and their cumulative GPA is greater than or equal to 2.00, they will be considered to be making satisfactory academic progress for financial aid. If, at the end of the warning term, a student has not achieved a cumulative completion rate greater than or equal to 67 percent and their cumulative GPA is not greater than or equal to 2.00, they will be placed on Financial Aid Termination.

**Financial aid termination** — The point at which a student is no longer eligible to receive financial aid as defined in this policy. Normally, this is following an unsuccessful term of warning.

**Incomplete** — A grade of “I” received for an attempted course; no credit until the course is completed.

**Maximum time frame** — Time limit set for receipt of financial aid that is specific to a student’s program of study. Federal law defines this limit as 150 percent of the published program length.

**Satisfactory Academic Progress/Satisfactory Progress** — Completion of courses at a rate and achieving a cumulative GPA that meets the standards defined in this policy.

**Transfer credit** — Course accepted for credit at SIUE from another institution.

**Authority**

The Higher Education Act of 1965 as amended and final regulations set by the United States Department of Education (34CFR668.16) require that institutions of higher education establish reasonable standards of satisfactory academic progress as a condition of continuing eligibility for federal aid programs. Nothing in this policy shall be construed as an exemption from the requirements of any other federal assistance the student receives, nor does this policy limit the authority of the Director of Financial Aid when taking responsible action to eliminate fraud or abuse in these programs.
Satisfactory Progress Standards
To remain eligible for financial assistance, students must:

- complete courses at an overall rate that will ensure graduation within the maximum time frame;
- complete their developmental and incomplete courses in a timely manner;
- graduate prior to the maximum timeframe specific to their degree programs; and
- maintain academic standing, usually a specific term and cumulative grade point average, consistent with SIUE academic policy.

Maximum time frame — To retain financial aid eligibility, a student must complete his or her degree program within 150 percent of the published program length, defined in cumulative attempted hours for undergraduate/graduate students and years for dental medicine students. Attempted hours for this purpose include regular and developmental course hours, as well as accepted transfer credit. Once a student reaches the maximum time frame, he or she is ineligible for financial aid unless additional time to complete the degree is approved through appeal. Maximum time to complete degree is 150 percent of the published program length.

Overall completion rate — Completion rates reflect the rate at which students earn credit for courses attempted (for example, a student earning credit for 9 of 12 attempted hours would have a 75 percent completion rate). A student must complete at least 67 percent of his/her attempted hours. A student’s attempted hours are determined by his/her official enrollment status at the end of the 100 percent refund period for a given term or class. Accepted transfer hours are included in the cumulative completion rate calculations.

Developmental course completion — Students taking developmental courses are eligible to receive financial aid for their first 30 hours of developmental classes attempted. Developmental courses must be completed at the same rate as other courses (67 percent).

Grade point average/suspension — Students must meet the University’s policy on academic standing, grades, and grade point average as defined in the appropriate catalog. Accepted transfer hours are NOT included in the GPA calculations. A student on academic suspension has not maintained acceptable academic progress. The Office of Student Financial Aid initially will block that student from receiving financial aid in any subsequent term. If readmitted or reinstated to the University, the student must also appeal to the Office of Student Financial Aid to receive financial aid during a term of financial aid probation.

Notification of Financial Aid Warning or Termination
The Office of Student Financial Aid will post on CougarNet the status of any student who is placed on financial aid warning or financial aid termination. It is the responsibility of the student to monitor his or her current standing on CougarNet.

Reinstatement
An undergraduate student who exceeds his/her program’s maximum time frame but has not received a degree — The student must appeal on the appropriate form and provide a transcript and graduation plan that have been completed by his or her academic advisor. The advisor will mark classes the student has completed that are not applicable to their current major with “N/A.” The N/A hours are subtracted from the total hours, and if the new total is below the 150 percent allowed by federal law, the student will be allowed to receive financial aid on probation for one or more specified terms until the degree is completed.

Student on financial aid termination — Students who have been terminated from financial aid may seek reinstatement by achieving, without the benefit of the aid from which they have been terminated, both the cumulative 67 percent completion rate and the cumulative 2.00 GPA required. Reinstatement may be requested for the term after this occurs. The student may also submit a Financial Aid Appeal, to be reviewed by a committee. If the appeal is approved, financial aid would be reinstated for one semester on a probationary status. If requirements are met during the probationary term, the student may remain on probation until they have achieved the 67 percent completion rate and 2.00 GPA, at which time they would be back in good standing.

Student with grade changes — The student can regain financial aid eligibility by notifying the Office of Student Financial Aid of the grade change, including grades posted for incomplete courses.
**Student previously suspended** — A student loses financial aid eligibility at the time of suspension from SIUE and must appeal on the appropriate form to receive approval for a term of financial aid probation if reinstated or readmitted.

**Appeals**
A student who does not meet the undergraduate or graduate overall completion rates and GPA specified in this policy will be put on warning for one term following identification of unsatisfactory progress. If, at the end of the Warning term, satisfactory academic progress has not been reached, the student is terminated from receiving financial aid. A student who desires to appeal termination of his or her financial aid eligibility must appeal in writing on the appropriate form. The appeal must be accompanied by a graduation plan prepared by the student’s academic advisor, a letter from the student explaining the circumstances beyond his/her control that caused the semesters of unsatisfactory performance, and third party supporting documentation. Once all of the documentation has been received, the appeal is forwarded to the Financial Aid Appeal Committee for review. The committee is comprised of at least three faculty and/or staff members familiar with SIUE academic policy. The committee considers appeals in a timely manner and reviews only the written record. If the appeal is approved, financial aid is reinstated for one semester on a probationary status. If requirements are met during the probationary term, the student may remain on probation until they have achieved the 67 percent completion rate and 2.00 GPA, at which time they would be back in good standing. If the appeal is denied, the committee’s decisions may be appealed to the Director of Student Financial Aid, and the Director’s decisions may be appealed to the Associate Vice Chancellor for Enrollment Management.

**Additional Financial Information**

**Installment Payment Plan**
Students may pay in full their tuition, fees, housing, and meal plan charges by the first payment due date for the semester or may choose to follow the installment payment plan. The University automatically enrolls students in the installment payment plan if tuition, fees, housing and meal plan charges are not paid in full by the first day of class for the semester. There is a $30 charge per semester for use of the Installment Payment Plan. For details about the plan, visit siue.edu/bursar/installments.

**Gainful Employment Disclosure**
To access the Gainful Employment Disclosure Statement for the gainful employment program at SIUE, go to siue.edu/financialaid/certificate-programs2014.shtml and click on the disclosure links.
Advanced Studies
University Honors Program
SIUE’s Honors Program is for high achieving and highly motivated students in all fields and majors. To prepare students not just to succeed, but to excel and become leaders in their chosen fields, SIUE’s Honors Program emphasizes developing the capacities of integrating knowledge, of creativity, and of self-reflection. These capacities are developed in seminar-style classes that are taught with participatory (student-centered) pedagogy that confronts students with the challenge of applying knowledge to real-world problems and facing difficult and uncomfortable situations. We encourage students to take risks and help them learn from and harness their failures. The Honors Program at SIUE aims to nurture not just innovators and leaders in the professions but active and engaged citizens. It creates, for a diverse body of high-achieving and motivated students, an inclusive community of inquiry, reflection, self-development, and experimentation. The program instills and develops an atmosphere of collegiality, respect for difference, comfort with uncertainty and ambiguity, lifelong curiosity, and humility.

Honors students are academic leaders on campus; they promote the enduring value of liberal education in all of their courses. They are given the privilege of priority registration in order to accommodate their often ambitious schedules

General Education Requirements for Honors Students
SIUE’s Honors Program requires 25 credit-hours of general education coursework. These requirements fall into three categories: the Honors Core, the Pro-Seminar Requirement, and the Honors Extension.

Honors Core (15 credit-hours)
Honors students are required to take Honors 120, “Big Questions and the Spirit of Inquiry,” and Honors 121, “Honors Rhetoric” the first-semester of their first year. These linked courses are designed to introduce students to university instruction and inquiry by examining a big question of abiding human concern while simultaneously teaching them how to make, present, and compose persuasive arguments. Honors students go on to take Honors 250, “Connections,” which explores the connections between seemingly diverse fields or types; this course is designed to lay the foundations of learning how to integrate knowledge. Honors students complete the Honors Core by taking Honors 320A, “Honors Interdisciplinary Seminar: Problems in the Humanities, Arts, and Social Sciences” and Honors 320B, “Honors Interdisciplinary Seminar: Problems in the Physical Sciences, Life Sciences, and Technology.” These courses provide honors students the opportunity to apply the disciplinary knowledge they have been acquiring and the ability to integrate knowledge that honors education has nurtured to wicked, real-world problems.

Honors Pro-Seminars (4 credit-hours)
Honors pro-seminars are small, short discussion-intensive classes that address pressing contemporary matters. Most pro-seminars are taught in a five (5) or eight (8) week period, meeting once a week. They are designed as opportunities for honors students to get used to talking about difficult, sometimes uncomfortable issues that confront our culture and our time; in the pro-seminars students can learn how to navigate some of the sharp value differences that animate our time. Honors students are required to take Honors 100, “Honors Pro-seminar: Learning, Working, Living,” in the second semester of their first-year. The pro-seminar examines the nature of liberal education and the relationships between education, work, and the broader demands of living a good life. After that honors students take Honors 200, “Honors Pro-Seminar on Globalization,” and Honors 300, “Honors Pro-Seminar: Special Topics” during their sophomore and junior years. Honors 200 examines the accelerating economic integration of the world that is producing both remarkable opportunities and deepening anxieties and disruptions of social, political, and cultural institutions. The topic of Honors 300 is variable, but the interesting thing is that it is determined by a group of honors students who meet to decide what should be offered. Finally honors students are required to take Honors 499 at the same time they take their departmental senior assignment. Honors 499, “Honors Pro-seminar: Civic Engagement and Interdisciplinarity,” is the Honors Program capstone experience. It provides honors students interdisciplinary feedback on their disciplinary senior assignments as well as the opportunity to take their disciplinary/professional work into the public, during the Honors Symposium. All honors students are required to participate in the Honors Symposium.
Honors Extension (6 credit-hours)

Beyond the Honors Core and Honors Pro-seminar requirements, honors students are required to do a further six credit-hours of honors coursework: the Honors Extension. This course work is chosen intentionally by the honors student in a conversation with honors faculty and advisors. There are multiple ways to satisfy this requirement:

1. Any non-honors undergraduate course (Foundations, Breadth, major, minor) can, with the approval of the faculty of record, be enhanced with an Honors Contract (H-Contract). The Honors Contract, including instructions for how to use it, can be found on the Honors Program website.

2. Various honors seminars and pro-seminars can be repeated for credit (if the topic is different): Honors 320A or Honors 320B (each repeatable for 3 credit-hours); Honors 300, “Honors Pro-Seminar: Special Topics” (repeatable up to 4 credit-hours).

3. Honors scholars can also satisfy the requirement by enrolling in Honors 420, “Honors Independent Study,” for up to 9 credit-hours.

4. Finally, the honors extension can be satisfied by participation in the Undergraduate Research and Creative Activities (URCA) program, as an assistant or an associate, with the approval of the supervising faculty, the URCA Coordinator, and the Director of the University Honors Program. For information on the URCA Program, please see its website.

In short, honors students are required to take:

Honors 120—Big Questions and the Spirit of Inquiry (3 credit-hours)
Honors 121—Honors Rhetoric (3 credit-hours)
Honors 250—Honors Connections (3 credit-hours)
Honors 320A—Interdisciplinary Problems in the Humanities, Arts, and Social Sciences (3 credit-hours)
Honors 320B—Interdisciplinary Problems in the Physical Sciences, Life Sciences, and Technology (3 credit-hours)
Honors 100—Honors Pro-seminar: Learning/Working/Living (1 credit-hour)
Honors 200—Honors Pro-seminar: The World (1 credit-hour)
Honors 300—Honors Pro-seminar: Special Topics (1 credit-hour)
Honors 499—Honors Pro-seminar: Civic Engagement, the Professions, and the Public (1 credit-hour)

6 additional credit-hours of honors work to be satisfied in a variety of ways.

These requirements are detailed in the chart below (which is only a model):

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<td>HONS 100—Pro-seminar: Learning/</td>
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<td>Spirit of Inquiry (3 credit-hours)</td>
<td>Working/Living (1 credit-hour)</td>
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<td>Honors Contract</td>
<td>Engagement, the Professions, and the</td>
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Honors students will work with both a dedicated Honors Advisor and a discipline/program specific advisor in order to guarantee that they meet the requirements of both the Honors Program and the specific requirements of their major in a beneficial way.

General Education for Continuing and Transfer Students

SIUE’s Honors Program allows for continuing SIUE students or transfer students, with 1-60 hours of college credit, to apply for and potentially join the program. The application process for continuing and transfer students is available on the Honors Program’s website. Continuing or transfer students fall into two categories, those with 30 hours or less of college-level work and those with 31 to 60 hours; the Honors Program requirement vary, depending in which of these categories the student falls.

Continuing or transfer students with 1-30 credit-hours are exempt from Honors 120 and Honors 121 but are required to complete the remainder of the honors general education program outlined above (19 credit-hours). They are required to take Honors 250, “Honors
Connections,” the first semester they begin in the Honors Program.

Continuing or transfer students with 31-60 credit-hours are exempt from Honors 120, Honors 121, and Honors 100; further they are exempt from either Honors 320A or Honors 320B. They are required to complete the remainder of honors general education program outlined above (15 credit-hours). They are required to take Honors 250, “Honors Connections,” the first semester they begin in the Honors Program.

Co-Curricular Requirement
Honors students are required to engage in 50 hours of service before graduation. Opportunities for service are provided through The Kimmel Student Involvement Center. See their website for current service opportunities.

Program Retention
Honors students must maintain a 3.2 cumulative grade point average to remain in good standing in the Honors Program. If in any semester an honors student’s cumulative grade point average falls below a 3.2 average, the student shall be placed on program probation. The student will receive written notification and given up to one full academic year (Fall and Spring semesters) to raise their cumulative GPA to 3.2. If at the end of the year the student does not attain a 3.2 cumulative GPA, she/he is to be dropped from the Honors Program.

Undergraduate Research and Creative Activities Program
The Undergraduate Research and Creative Activities (URCA) Program at SIUE encourages, supports, and enables students to participate in research and creative activities at the undergraduate level. An undergraduate research or creative activity experience enhances the quality of the baccalaureate experience by giving students opportunities to engage in scholarship, to interact with faculty, and to connect more fully in the educational process of discovering and creating. The URCA Program recognizes that student talents can be uncovered in ways that do not always appear through the usual format of classroom instruction and testing. In cooperation with the academic departments at SIUE, the URCA Program recruits eligible students as URCA Associates or Assistants. URCA Associates work one-on-one with a faculty mentor to lead their own research projects or creative activities over the course of an academic year. This is an extremely competitive program, and only a maximum of 10 Associates will be selected per academic year. Associates are the principal investigators in their projects. The process involves several stages:

- submitting a proposal and budget for approval,
- being accepted into the program,
- doing the research or creative activity during the semesters specified in the proposal,
- participating in periodic URCA events,
- preparing a final report, and
- presenting the results at the URCA Symposium.

URCA provides budgetary support for conducting the scholarly activity as well as advisory support during preparation of the proposals and reports. The Office of Academic Innovation and Effectiveness, in which URCA is housed, assists students during their work by providing prompt administrative support as needed. Academic departments and supervising faculty mentor(s) provide all necessary research guidance and facilities. Academic departments also arrange the purchase of commodities and services required for the projects, using the project budget funds provided by the Provost’s Office. In addition, URCA Associates receive a monetary award in two installments — one per each semester of participation. Full-time undergraduate students who have been accepted as a major in any of the disciplines at SIUE and who maintain a grade point average of 3.0 or better are eligible to compete for URCA Associate positions. Students must have junior or senior standing at the time they conduct their URCA Associate work and may use the URCA Associate project to fulfill the Senior Assignment requirement for graduation (with departmental approval). Proposals must be signed and submitted in the prescribed form by the third Friday of March to the Undergraduate Research and Creative Activities Program, Office of Innovation and Effectiveness, Box 1300, SIUE, Edwardsville, IL 62026-1300.

URCA Assistants work approximately nine hours per week on faculty-led research or creative activities over the course of one semester. These positions provide students with an introductory experience in the research or creative activities of a specific field. Up to 80 Assistants per semester will receive a monetary award
for their participation, and many students participate each semester without receiving the monetary award. In this program, first interested faculty submit their research or creative activity proposals to the URCA Program coordinator. Faculty who have their proposals approved are then eligible to mentor URCA Assistants. After the faculty proposals are selected, students apply online for the Assistant positions through the URCA Web site (siue.edu/urca). This typically happens in the middle of the semester before the work will be completed. Students accepted as Assistants must meet the learning outcomes set forth by the faculty member who is principal investigator on the project. Some Assistant positions are available for course credit, but no tuition waiver is associated with the URCA program. Full-time undergraduate students at SIUE who have a minimum GPA of 2.3 are eligible to apply for URCA Assistant positions, and students may apply for Assistant positions at any time during their SIUE careers (freshman through senior years).

More information and application/proposal forms are available on the URCA website: siue.edu/urca

**Study Abroad**

Through its study abroad programs, SIUE complements the work of its academic departments through the placement of students at overseas institutions. Study abroad is an academically focused time in a foreign setting that allows students to earn SIUE credit for approved courses taken outside the United States. SIUE-approved study abroad fulfills SIUE academic requirements and generally qualifies for financial aid.

SIUE offers opportunities for undergraduate and graduate study abroad in more than 30 countries. Program length includes summer programs, semester-long programs and short-term (one-four weeks) study abroad programs led by SIUE faculty. Most of these study abroad classes are taught in English.

SIUE works with our partners to provide many programs which are close in cost to studying at Edwardsville.

For more information about study abroad, visit siue.edu/study-abroad.

**Learning Support Services**

Learning Support Services (LSS) offers Academic Development classes and free tutoring for SIUE students. The LSS staff prides itself on the academic atmosphere of the facility, which is focused on academic support and guidance so that SIUE students can hone skills needed to be successful here and beyond.

**Academic Development (AD) Coursework**

LSS provides non-credit bearing courses (Beginning Algebra; College Reading II; Basic Writing I and II) and college credit bearing courses (Study Skills; Reading Speed & Efficiency; Career Planning & Development) to aid in students’ growth in the classroom. These courses help students further develop and expand on skills that will promote success in their general education and major coursework.

**The Tutoring Resource Center**

Free individual and small-group, peer tutoring in several math, science, and business courses are offered to all enrolled SIUE students. For specific classes tutored please visit siue.edu/lss/tutoring or call 618-650-2055.

**The Speech Center**

The Speech Center assists students who want to improve their public speaking abilities for both academic and professional development. It provides an active-learning environment where students are engaged in the process of speech writing, delivery, and evaluation. For additional information please visit siue.edu/lss/speechcenter or call 618-650-3085.

**Supplemental Instruction**

Supplemental Instruction (SI) is an institution-wide approach to student success and persistence. The SI program targets traditionally difficult academic courses, and provides regularly scheduled, out-of-class, peer-facilitated group sessions. For more information about SI please visit siue.edu/lss/si or call 618-650-3193.

**Testing Services**

Testing Services administers placement tests, proficiency examinations, CLEP exams, the TEAS, college admission tests (SAT and ACT), graduate-level admissions tests (GRE Subject Tests and the MAT), certification exams (CHES and MCHES), and other standardized exams. Students may earn academic credit for their prior knowledge by taking CLEP and proficiency examinations. For more information, please refer to the catalog section titled Credit Earned by Examination, Extension and Correspondence. Students are strongly encouraged to complete any recommended placement tests prior to advisement and may obtain more information from the Testing
Services website at siue.edu/testing or by calling 618-650-1246.

**The Writing Center**
The Writing Center staff assists SIUE students, faculty, and staff as they analyze papers and teaches how to be a better writer. The writing consultants make suggestions, explore alternatives, and show how good writers evaluate text so individuals can learn to evaluate their own work without the help of others. For more information visit siue.edu/lss/writing or call 618-650-2045.

For additional information or assistance visit Learning Support Services at siue.edu/lss, stop by the Student Success Center (Suite 1256), or call 618-650-3717.
Student Development and University Activities

Campus Activities Board
The Campus Activities Board is a student-run, volunteer organization that serves both as a programming board and an advisory board. Its purpose is to provide diverse programs for the campus community; to aid in the social, educational, cultural, recreational, and leadership development of students; and to serve as the advisory board for the student programming fee. The Campus Activities Board plans and implements a wide variety of entertainment, cultural, educational and recreational programs for the SIUE community. The board consists of an executive council and 10 programming committee chairs — one for each of the following areas: Black Heritage Month, Cougar Welcome, enrichment, entertainment, family programs, Homecoming, novelty, recreation, special events, and Springfest. Students interested in becoming a part of the Campus Activities Board may contact the Kimmel Student Involvement Center in Morris University Center at 618-650-2686 or visit siue.edu/cab.

Fraternity and Sorority Life
The Fraternity and Sorority Community is a growing and viable element on the Southern Illinois University Edwardsville campus with 21 organizations committed to the four pillars of community engagement, friendship, leadership, and scholarship. Through their fraternity or sorority experience, students are provided with a home-away-from-home environment which creates opportunities for a diverse and lasting social network, academic support, and positive group experiences. Fraternity and sorority members are involved with community service, philanthropies, and major leadership positions on campus. Students interested in becoming a member of a fraternity or sorority should contact the Kimmel Student Involvement Center in Morris University Center at 618-650-2686 or visit the Fraternity and Sorority Life website at siue.edu/kimmel/greek.

Kimmel Student Involvement Center
Students enrolled at the University will find many opportunities for developing their potential and obtaining challenging leadership and service roles. The Kimmel Student Involvement Center, located on the first floor of Morris University Center, provides students with numerous services, programs, and activities to help them connect with SIUE outside of the classroom. The Kimmel Student Involvement Center is the focal point for Student Government, the Student Leadership Development Program (SLDP), Community Engagement, fraternity and sorority life, the Campus Activities Board, student organizational activities, and several related student-sponsored activities. To learn more, check out siue.edu/kimmel.

Student Government
Student Government provides opportunities for students to become involved in the decision-making processes of the University. As one of three constituency bodies of the University, Student Government represents the interests of students and collaborates with the administration on many policy matters. In addition, Student Government allocates student funds, appoints representatives to various university and student committees, recognizes student organizations, and reviews student fees. Student Government is composed of eight executive officers: the student body president, the vice president, the financial officer, the external affairs officer, the internal affairs officer, the organization relations officer, the student diversity officer, the marketing and communications officer and the student trustee — a member of the SIU Board of Trustees. In addition, there are 22 Student Senators, including two (2) graduate student senators and two (2) appointed Freshman senators, who complete Student Government. Students interested in becoming part of Student Government may call 618-650-3819, or visit siue.edu/sg.

Student Leadership Development Program
The Student Leadership Development Program provides opportunities for students to develop professional and leadership skills, gain practical experience, and enhance their civic awareness through participation in leadership modules and volunteer services on and off campus. The Student Leadership Development Program is open to all enrolled students. Students are encouraged to begin the program during the freshman year, but can join at any time. The program, designed to accommodate varying student’s’ interests and schedules, may be completed at each student’s own pace. Most SLDP programs occur over the lunch hour and include a free meal! For more information,
Roy Lee Field at Simmons Baseball Complex, which has a full turf infield at the 1,500-seat stadium;

- Six varsity tennis courts;
- A national-caliber cross country course.

SIUE Intercollegiate Athletics consists of 16 NCAA Division I varsity sports — men: baseball, basketball, cross country, golf, soccer, indoor track and field, outdoor track and field, and wrestling — women: basketball, cross country, soccer, softball, tennis, indoor track and field, outdoor track and field, and volleyball. The Cougars compete in the Ohio Valley Conference (OVC) with an associate membership in the Mid-American Conference (MAC) in men’s soccer and wrestling.

Students interested in participating in intercollegiate athletics should call 618-650-2871 or contact the head coach via the Athletics website at siuecougars.com.

Recreational and Leisure Activities — Campus Recreation

Students may take part in a wide variety of recreational and leisure activities offered through Campus Recreation. Opportunities for involvement include a wide selection of intramural sports, club sports, aquatics, informal recreational activities, family programs, outdoor trips and special events. The Student Fitness Center/Vadalabene Center is available days, evenings and weekends to serve the recreational needs of the University community through extensive opportunities for fitness and recreational pursuits.

The Student Fitness Center contains:
- five indoor courts for basketball, volleyball and badminton
- a multipurpose court for tennis, indoor soccer, futsal, and roller hockey;
- a suspended 1/8 mile (200 meter) indoor jogging track;
- a 7,000-square-foot weight room;
- two group fitness rooms (most group fitness classes are free for SIUE students);
- two, 4,000-square-foot cardiovascular exercise rooms with 120+ pieces of equipment;
- an indoor cycling studio with 25 bikes;
- the Wellness Center that offers fitness services such as Fitness Assessments and Personal Training;

Community Engagement

The Kimmel Student Involvement Center offers volunteer opportunities through organized group projects, spring break trips (both domestic and international trips), individual volunteer placement, and service-learning classes. Community engagement allow students to apply academic knowledge, gain skills and experience, and contribute to the community. Volunteer opportunities are available throughout the St. Louis area and within the University community. For more information, contact the Kimmel Student Involvement Center at 618-650-2686 or visit siue.edu/kimmel.

Student Organizations and Activities

Students interested in developing their leadership potential may wish to become active in one or more of the almost 300 recognized student organizations. In addition to honorary organizations that encourage and recognize academic achievement, student organizations address educational, religious, social, recreational, and political interests. All enrolled students may take part in student organizations and their activities. Throughout the year, seasonal activities offer students opportunities to become involved in campus life. The Kimmel Student Involvement Center plans, coordinates, and co-sponsors a variety of campus programs. Students taking part in the Student Leadership Development Program, and other interested students, may contribute service to such events as the Red Cross blood drives, Preview SIUE, Springfest, and Cougar Welcome. Students interested in student organizations may contact the Kimmel Student Involvement Center at 618-650-2686 or visit siue.edu/kimmel.

Intercollegiate Athletics

The SIUE Athletics Department plays host to more than 100 home NCAA Division I events per year. SIUE students with a valid Cougar Card receive free admission to all regular season home events. The 2,660-acre campus features some of the best athletics facilities including:
- 3,500-seat Ralph Korte Stadium for track and field, which also houses Bob Guelker Field for men’s and women’s soccer;
- The 4,000-seat Vadalabene Center for basketball, wrestling and volleyball;
- A varsity softball complex with an adjoining indoor practice facility;

contact the Kimmel Student Involvement Center at 618-650-2686 or siue.edu/kimmel/sldp.
- a student social lounge with big-screen TV;
- the “Energy Zone” food and beverage service;
- Chimega’s, a bouldering cave that includes inverted climbing options;

The adjoining Vadalabene Center offers:
- a 25-yard indoor pool with diving board;
- three racquetball courts and one walleyball court;
- a rock-climbing gym with 24-foot vertical climbing options;

- two group activity rooms;
- equipment issue office with many free and low-cost items to check out or purchase;
- showers and locker rooms equipped with dry saunas.

For more information about programs, services, and recreational opportunities, contact Campus Recreation at (618) 650-B-FIT (2348), siue.edu/crec and social media.

Spiritual Development
The Center for Spirituality and Sustainability seeks to assist students and others who wish to enrich their spiritual lives. Students and other members of the university may participate in the activities of the Center, which is home to several denominations of campus ministries. These individual ministries maintain their own schedule of events, including worship services, and may collaborate on ecumenical activities. Ministers offer listening sessions, spiritual counseling, and facilitate connecting individuals with on and off campus resources.

Students’ Advocate
The Office of the Vice Chancellor for Student Affairs is vitally interested in developing students’ potential and providing an environment that helps students meet their educational and career objectives. Students are encouraged to seek assistance from the office on matters of concern. The Dean of Students, located in this office, serves as the students’ ombudsman and may be helpful in resolving problems involving multiple offices or agencies of the University. The Dean of Students may be consulted on matters of student rights and responsibilities, student conduct, and grievance procedures.

Students who wish to seek the assistance of the Office of the Vice Chancellor for Student Affairs may call 618-650-2020 or make an appointment in Rendleman Hall, room 2306.

University Center Advisory Board
The University Center Advisory Board (UCB) functions as a committee of students, faculty, staff, and alumni representatives responsible for making recommendations to the director of the Morris University Center. Board members represent building services, The Cougar Store, Dining Services, finance, programming, and policy review. Students interested in becoming part of the University Center Board may contact the Morris University Center director’s office, 618-650-2300 or universitycenter@siue.edu.
Services for Students

Academic Advising

Students consult at least once each term with an academic advisor who provides advice regarding appropriate courses, career options, and related matters. Advising is mandatory for all students prior to registration each term. For more information, see the section on Registration. Academic advisors for exploratory and undeclared students are in the Student Success Center, Room 1220. Appointments for exploratory and undeclared students are required and may be made by calling 618-650-3701 for new students; or by using Starfish, the web-based appointment scheduler available through Blackboard, for continuing students. Once officially declared into their majors, students meet with their departmental advisors.

Bursar

The Bursar’s Office assesses tuition and fees to students and alerts students and authorized third parties of updated billing information available on CougarNet. The Bursar’s Office accepts payments on student accounts, issues refunds, and generates Form 1098T for tax reporting.

The Bursar’s Office is located on the first floor of Rendleman Hall. Office hours are 8 a.m.-4:30 p.m., Monday-Friday. Payments may be made online through CougarNet or siue.edu/paymybill. Payments may also be mailed to Campus Box 1042, Edwardsville, IL, 62026-1042. For more information, call 618-650-3123, email bursar@siue.edu, or visit siue.edu/bursar.

Career Development Center

The Career Development Center is a comprehensive center for the development of career objectives and direction for students and alumni. The center helps students and alumni relate their academic majors to career fields; implement and enhance their career development; explore and confirm career/major choices; and develop job-search strategies and professional skills. These are accomplished through the integration of various career development theories, career interest inventories, and personal style inventories. Career guidance is provided through personal counseling as well as the course AD 117, Career Planning and Development.

The Cooperative Education (Co-op) and Internship Program is a major component of the career development process, assisting students in all majors to gain career-related work experience in paid paraprofessional positions or unpaid internships while attending SIUE. Some of the many other services provided by the center include workshops on various topics, resume referral, on-campus interviewing, and a Career Resource Center.

Accessing the Career Development Center’s home page (siue.edu/careerdevelopmentcenter) allows complete access to the center. Students can register with the Cougar Jobline to view career, Co-op and internship positions and to sign up for on-campus interview opportunities. Career fairs are held annually, allowing students and alumni to network with employers, both local and national. For details about the Career Development Center, please call 618-650-3708, stop by the office at Student Success Center 0281, or visit siue.edu/careerdevelopmentcenter.

Computer Network

The campus network interconnects all computers throughout the Edwardsville campus, Alton Dental School campus, and East St. Louis Higher Education Center. The network consists of more than 15,000 direct connections to the SIUE enterprise systems and the Internet. Wireless access is available at most locations throughout the campuses. Information Technology Services (ITS) manages the campus network and servers, which provide account, Internet and email services.

Internet, Email Accounts

All students are provided a campus network account as soon as they are admitted. To obtain their account, they must go to the e-ID website, siue.edu/e-id. This includes a campus network account, Banner, email, Blackboard, and StarFish access through Blackboard. Campus email addresses are in the form <e-ID>@siue.edu.

Counseling Services

The mission of Counseling Services is to offer mental health services to the SIUE campus community through direct clinical services rendered to its students, consultation with its faculty/staff, and participation in outreach that seeks to educate and enrich all members of our community. Counseling Services facilitates mental wellness on campus through preventive efforts and interventions. We accomplish this mission by provides short-term, time-limited counseling and psychotherapeutic services for students to better cope with psychological,
interpersonal, and psychosocial concerns. In addition to individual counseling, the office also provides crisis interventions, support for survivors of sexual assault (including the SIUE Confidential Advisor), psychoeducation on alcohol and other drug-related concerns, and serves as an internship site for providers-in-training enrolled in graduate-level clinical mental health counseling-and-related programs. The staff of experienced, licensed mental health providers is committed to offering culturally-responsive, trauma-informed care as they help our diverse population of students adjust to living and learning in a university environment and fully realize their potential. All appointments are conducted in a confidential and private manner.

Counseling Services is located in the same office suite as the Health Service, in room 0222 on the lower level of the Student Success Center. We are open Monday through Friday, 8 a.m.-4:30 p.m. Our phone number is 618-650-2842. More information about the office is available at siue.edu/counseling.

Currently enrolled SIUE students may schedule an initial assessment by phone or in person. Our services are provided at no additional charge to currently-enrolled students who have paid their SIUE student fees. After an initial assessment with the behavioral health case manager, clients are matched with the most appropriate treatment based on their needs. Persons in crisis (defined as active suicidality) during regular business hours can come to Counseling Services and ask to speak to a member of the behavioral health team. For life-threatening emergencies, immediate help is available by calling 911 or going to the nearest hospital emergency room.

Dining Services

Dining Services offers meal plans for residence hall and Cougar Village/Evergreen Hall residents. Meal plans can be used at Commons Dugout, Skywalk Food Court, Bluff Café, Energy Zone and at all food outlets in Morris University Center, including Union Station convenience store, Starbucks Coffee, Kaldi’s Coffee, and Auntie Anne’s pretzels.

Meal plans provide flexibility, convenience and savings. There is no need to carry cash; the plans use a computerized meal card. Residence hall students are required to purchase one of two meal plans. Because Cougar Village/Evergreen apartments include kitchens, meal plans are optional for those residents. Center Court, on the lower level of Morris University Center, offers hot breakfast, lunch and dinner. It also features gourmet coffees, salads, and hot entrées including meat, vegetarian and vegan menu items and a carving station. The Wok offers a variety of cooked-to-order Asian foods. Center Court also has a Boss Burgers Grill Area; The Sweet Spot featuring a dozen varieties of breads and bagels; Sweet Surprises with freshly baked cakes and pies. The Sammiches deli area includes a variety of made-to-order sandwiches, wraps, and hot panini sandwiches. Garden Patch offers salads, soups, and fresh fruit. Chick-fil-A Express and Grab ‘n’ Go also are available.

Cougar Den, next to Center Court, houses a Pizza Hut Express, offering pizzas, breakfast sandwiches, hot sandwiches, hot wings and bread/pizza sticks. Cocina Southwest Cuisine offers tacos, burritos, nachos, gorditas, quesadillas, and other specialties. Sweetie’s offers an extensive assortment of hand-dipped ice cream. Starbucks Coffee, on the first floor of Morris University Center, includes espresso, cappuccino, latte, frappuccino, gourmet sandwiches, salads, desserts, and chocolates. Across the way is Auntie Anne’s pretzels. The University Restaurant, on the second floor of Morris University Center, offers complete table service in a relaxed atmosphere, with a varied menu, and a salad and entrées bar at modest prices.

Dining Services locations outside Morris University Center include the Skywalk Food Court (top floor between Founders and Alumni Halls), Bluff Café, Commons Dugout (Commons Building, Cougar Village), Kaldi’s Coffee (Student Success Center) and the Energy Zone (Student Fitness Center).

Disability Support Services

Disability Support Services (DSS) is responsible for providing all curricular and co-curricular accommodations at SIUE. Any student with a documented disability who requires accommodations should make an appointment with DSS to coordinate academic accommodations. All students with disabilities are encouraged to visit DSS in the Student Success Center, Room 1270. Students may contact the office at 618-650-3726 (V/T) or disabilitysupport@siue.edu. For more information, visit the office website at siue.edu/dss.

Early Childhood Center

Child care is available for children of SIUE students and employees. The Early Childhood Center, on Northwest University Drive off Circle
comply with the immunization requirement by the tenth day of the semester. For more information about Health Service, please call 618-650-2842 or go to siue.edu/healthservice.

Information Technology Services
Information Technology Services provides student and faculty support for teaching and learning technologies and spaces at SIUE. Support is handled by two Help Desk locations in the basement of the Library and the first floor of the MUC. The Help Desk can assist with issues pertaining to your e-id, electronic devices, the Blackboard learning management system, printing, and other University systems and software. ITS also provides several options for 24/7 support, including live phone assistance or access to on-demand articles, instructions, and other resources via the knowledgebase (https://kb.siue.edu). General-purpose student computer labs are housed in all residence halls, Lovejoy Library, Founders Hall, Peck Hall, Dunham Hall, the Science Building, the Art and Design Building, the Engineering Building, and the Student Success Center. Software is also available remotely or as a local installation using V Lab (http://www.siue.edu/vlab).

International Student Services
The Office of International Affairs provides a comprehensive range of services for international students at SIUE. These services include immigration advisement, new student orientation, determination of employment eligibility, and curricular or optional practical training advisement. International student specialists serve as University liaisons with U.S. and foreign government agencies. The office is located in the Student Success Center, Room 0300. For assistance or questions, please call 618-650-3785.

General Support Services
The Office collaborates with other academic and student service units within the university to facilitate adaptation and integration into the university environment. International student specialists maintain contact with academic departments, student support units and community resources. Referrals to various resources are made, as appropriate.

Immigration Advisement
The Office provides several types of assistance for students. Specialists provide advisement to maintain legal immigration status, determine eligibility for on or off campus employment,
and assist students with participation in curricular and practical training. In addition, the office is responsible for University compliance with immigration record keeping and reporting requirements.

**Orientation**
A required orientation tailored to the needs of international students is offered before each academic term. The Office of International Affairs offers a comprehensive orientation that coordinates with other University units including Academic Advising, Service Center and Health Services.

**Community Interaction**
The International Hospitality Program, a community volunteer organization, works closely with the office to welcome international students. Its activities include an active host family program and numerous social activities.

**Lovejoy Library**
Library and Information Services provides information resources and technology to support teaching, learning, and scholarship. In partnership with other academic units, Library and Information Services teaches information literacy and discernment, essential skills needed for lifelong learning.

Lovejoy Library’s collections include 505,936 titles; 145 print and microform serial subscriptions; 34,724 full-text e-journals; 552,505 U.S. government documents; 21,150 multimedia titles; 143,957 maps; 16,559 microform titles; and 86,712 electronic books. Faculty librarians and staff in Lovejoy Library provide assistance to students, faculty, and staff, demonstrating best practices for locating and assessing resources for papers, theses, grants or other research projects.

Library and Information Services’ resource-sharing agreements allow SIUE students, faculty, and staff to use other academic, public, and special libraries in the St. Louis area. In addition, the Library is a member of CARLI (Consortium of Academic and Research Libraries in Illinois), which provides SIUE users access to the holdings of 86 college and university libraries in Illinois through the I-Share system. Electronic access provides the opportunity to search the collections of other libraries throughout the world and to request materials through interlibrary loan. See [siue.edu/lovejoylibrary/](http://siue.edu/lovejoylibrary/) for details.

Library and Information Services is available through social media such as Facebook, YouTube and Twitter and the Library’s mobile website-SIUE Libraries Mobile. Traditional reference services have been augmented by chat reference and text reference. Facilities are available for information literacy instruction. The Library also offers 3D printing services.

Library and Information Services has a social media presence through Facebook, YouTube, and Twitter. Resources and assistance are also available via the Library’s mobile website. Traditional reference services have been augmented by chat, text, and email reference. Facilities are available for information literacy instruction. The Library also offers 3D printing services to the SIUE community.

Library and Information Services provides check-out services for a variety of equipment, such as laptop computers, DVD players, tape and CD recorders, digital cameras, camcorders, etc. Media, such as DVDs, videotapes, CDs, etc., are available for checkout by students, faculty and staff. The first, second, and third floors of the Library provide space for individual library research and group study.

**Morris University Center**
Morris University Center (MUC) is the center of student life on campus. The University Center serves the entire campus and surrounding community. Services include meeting rooms, conference center, a ballroom, wireless Internet access, multiple dining options, The Cougar Store and other services for students, faculty, staff and visitors.

The main level features the Meridian Ballroom as the preferred venue for campus lectures, dances, Arts & Issues events, luncheons, receptions, and many other University and community activities. The Goshen Lounge is frequently the forum for debates, special events, exhibits, and entertainers. The Cougar Store features SIUE clothing and gifts, school and art supplies, general interest books, PC computers, software and accessories, greeting cards, supplemental course materials and graduate-level textbooks. The Welcome Desk serves as the information center for the building, campus lost-and-found, and sells bus passes and tickets for Campus Activities Board (CAB) events, late night dances, and other events. Union Station is the campus convenience store, providing grab and go meal items, snacks, groceries and beverages. TheBANK of Edwardsville provides complete banking services, including an ATM. Auntie Anne’s pretzels offers handmade pretzels, and
Starbucks offers coffee and other beverages and pastries.

On the lower level, Cougar Lanes includes bowling with cosmic lighting, pool, billiards, video games, air hockey and table tennis. University Hair offers complete hair styling services for men and women. Many SIUE dining options are located in the lower level of the Morris University Center, including the Center Court food area, Chick-fil-A, Pizza Hut Express, Cocina Southwest Cuisine and Sweete's ice cream, shakes and smoothies.

The Center for Student Diversity & Inclusion, Fixins (the University Restaurant), Event Services, MUC Marketing, MUC Business Office, meeting rooms and the Conference Center are on the upper level.

**Student Success Center**

The SIUE Student Success Center consolidates student services and resources to help improve recruitment, retention and graduation rates. The Student Success Center houses, among others, International Student Services, Academic Advising, Career Development Center, Counseling Services, Disability Support Services, and Health Service. Kaldi's Coffee is located on the main level of the Student Success Center.

**Parking**

SIUE parking is based on color-coded lots with corresponding permits. All students who park a vehicle on University property must purchase and display a current, valid SIUE permit. Commuter and resident student permits may be purchased online on the Parking website, siue.edu/parking or at Parking Services, Room 1113, Rendleman Hall. Evening students have the option of purchasing one of a limited number of evening permits. These permits are sold on a first-come, first-served basis and are valid for parking in Lots A and E after 3 p.m. Students may not purchase a permit if they have outstanding parking fines. Payment for a citation must be received by Parking Services within 14 days of the citation issue date to avoid the addition of a late fee.

**Parking for Persons with Disabilities**

Students who have state-issued disability hang tags, parking cards or plates also are required to purchase and display SIUE parking permits in order to use parking spaces for persons with a disability on University property. Vehicles with appropriate permits may be parked in handicapped spaces only when a person with a disability is the driver or passenger. For short-term health problems, one 30-day temporary disability permit may be authorized by Health Service. If a student has a note from a doctor, it may be taken directly to Parking Services for the 30-day permit. The student also must have a current SIUE permit. An SIUE temporary disability permit does not authorize a person to park in a space for persons with a disability. Rather, Health Service and Parking Services work together to provide parking that is closer and more convenient. A state-issued permit is suggested if the need persists beyond 30 days.

**Service Center**

At the Service Center, in Rendleman Hall, room 1309, SIUE students can find information and help with registration, class adds, drops and withdrawals, transcript requests and other student administrative business. Among the many services provided are:

- address and name changes
- applications for admission (undergraduate and graduate)
- class registration and schedule changes (adds, drops, withdrawals)
- CougarNet access to student records and web registration
- enrollment certification requests
- forms and general information related to a variety of student concerns
- Graduate Records matters
- reclassification-of-residency applications
- transcript requests
- tuition calculation
- Cougar ID cards
- Cougar Bucks

Service Center hours are 8 a.m.-6 p.m., Monday and Thursday, and 8 a.m.-4:30 p.m., Tuesday, Wednesday and Friday. During summer term (approximately May 1 - August 15), hours of service may be reduced. The Service Center offers additional hours of service at the beginning of each term. These hours are subject to change when classes are not in session and at other times as needed.

**Special Information for Evening Students**

For evening students, the Service Center offers limited assistance for Parking Services and selected other offices when those offices are closed. In addition, several offices, including Parking Services and Textbook Service, offer
extended evening hours when classes are in session.

Some services, including Lovejoy Library, Academic Counseling and Advising, and the University Bookstore, have extended hours Monday through Thursday evenings when classes are in session. Inquire at each office for specific hours of operation.

For more information about the Service Center, call 618-650-2080, or 888-328-5168, ext.2080, visit the Service Center website at siue.edu/registrar, or email servicecenter@siue.edu.

The SIUE Experience
Before the first day of fall and spring semester classes, the University hosts the SIUE Experience – an official welcome to the University for incoming new students. The SIUE Experience is a series of activities designed to acquaint new students with the university, including academic programs and related requirements, and student life. The program provides opportunities for new students to meet other students, faculty, and staff. The SIUE Experience begins the weekend before the first day of classes. The first activity is move-in day for those who will live in University Housing. Required events include a service project and small group sessions that introduce students to SIUE’s core values: Excellence, Wisdom, Inclusion, Citizenship and Integrity. It explores the purpose and expectations of a college education, and the meaning of membership in the SIUE community. The University expects all new students to fully participate in The SIUE Experience.

New Student Registration
Freshmen entering in the fall term will attend Springboard to Success, a mandatory pre-entry advisement program that will begin their University experience and allow a smooth transition to SIUE. Students will meet with an academic advisor, register for classes, get an SIUE student ID and take care of other university business. Entering transfer students who are undeclared are required to attend an hour-long advising appointment with an academic advisor in the Office of Academic Advising. Appointments may be scheduled by calling 618-650-3701.

All students, except visiting students, must meet with an academic advisor before registration. During this advising session, a registration hold will be released that allows access to web registration via CougarNet. It is important that you plan your schedule appropriately, ensuring that all prerequisites and class restrictions have been satisfied prior to enrollment. Prerequisites and class restrictions may be reviewed in the class schedule published through CougarNet. To avoid unnecessary problems with enrollment, please follow these guidelines:

- Meet with an advisor early in the semester.
- Have your registration hold released.
- Ensure that you have cleared any additional holds that may be on your record.
- Ensure that prerequisites and class restrictions are satisfied.
- Obtain approval to enroll when necessary.
- Register early in the registration period.
- Obtain your billing information through CougarNet.
- Make payment by the due date.

Registrations may be cancelled by the University for academic, disciplinary or financial reasons. While the University reserves the right to cancel students for administrative reasons, it is the student’s responsibility to drop classes in which enrollment is no longer desired. Schedule changes may be made online through the Sunday preceding the first day of the term.

Students are expected to register before the term begins. It is advisable to register as early as possible to ensure sufficient space availability in desired classes. Beginning with the first day of the term, students will be assessed a non-refundable $25 late registration fee. No registrations will be accepted after the second week of the semester.

Student Identification Cards — Cougar Card
Students receive an identification card, called a Cougar Card, which bears their image and identifies them as enrolled students at SIUE. The Cougar Card is an all-purpose card required for identification, meal plans, debit plan, vending, and admittance to SIUE buildings and events.

Every student, faculty member and staff member is eligible to obtain a card by providing a government-issued photo identification (e.g. driver’s license or other photo ID). Students, faculty and staff may open a Cougar Bucks account. Although entrusted to you while you are enrolled at or employed by SIUE, the Cougar Card remains the property of the
University. Unauthorized use or use by a party other than the person identified on the Cougar Card, or tampering with or altering the card warrants confiscation and possible disciplinary action by the University. The Cougar Card should be carried at all times in order to use a multitude of campus services. For more information about Cougar Cards and how to establish a Cougar Bucks account, contact the Service Center at 618-650-2080, stop by Rendleman Hall room 1309, or visit the Cougar Card website at siue.edu/cougarcard.

**Student Opportunities for Academic Results (SOAR)**
The Student Opportunities for Academic Results (SOAR) Center provides a variety of support services to underrepresented college student populations to assist with their retention and graduation from SIUE. SOAR is committed to helping students develop the necessary characteristics and abilities to succeed at the university level; as well as helping students overcome social, academic, and cultural barriers to higher education.

For details about the SOAR Center, please visit siue.edu/soar, call 618-650-3790, or stop by the office in the Academic Advancement Center of the Student Success Center (enter via Suite 1220).

**Textbook Service**
For a nominal rental fee per credit hour, undergraduate students are entitled to rent the majority of their required books for their courses, including off-campus classes. The textbook rental fee is charged to the student’s account, along with tuition and other fees. Students enrolled in classes simply visit Textbook Service, present their ID and obtain their books for the semester. Supplemental and optional texts for undergraduate courses are available for purchase in The Cougar Store on the first floor of Morris University Center. The Cougar Store also provides purchase texts for graduate, professional, and online courses. Textbook Service is located in University Park on the edge of campus. Students may park in adjacent parking lot P4.

Textbook Service has expanded hours of operation for issue and return periods at the beginning and end of each term. Call 618-650-3020 for dates and times of expanded hours, or check the web at http://www.siue.edu/muc/textbooks.shtml. During the rest of the semester, regular business hours are Monday - Friday, 8:30 a.m.-4:30 p.m. Students dropping classes or withdrawing from all classes must return their texts immediately to avoid penalties. Textbooks may be returned at any time if they are not needed. At the end of each semester, textbooks must be returned to Textbook Service by 5 p.m. the Saturday of finals week. Books not returned by the deadline will be charged to the student’s account. The amount charged will be the full replacement cost of each book.

**University Housing**
University Housing accommodates nearly 3,300 residents in smoke-free residence halls and apartments. Each fully furnished, air-conditioned suite or apartment has data jacks, wireless access to the SIUE network and expanded digital cable television. Laundries are located in each residence hall and in various locations throughout Cougar Village.

Trained, professional residence life staff are available to assist students 24 hours a day. Residents may participate in hundreds of academic and social activities and programs each year.

**First Year Living Options**
First-year residents live in Bluff Hall, Prairie Hall or Woodland Hall. Students may opt for a general assignment or may participate in one of our first-year Focused Interested Communities (FICs). FICs are housed throughout all three buildings and are designed to complement an academic major or interest. These communities allow residents to interact with other students with similar goals and interests, receive academic support, explore a specific concentration or career and connect with faculty outside the classroom. More information about first-year living options and Focused Interest Communities can be found at siue.edu/housing.

**Residence Hall Features:**
- suite-style living, with two residents sharing a room and four residents sharing a bath;
- air conditioning;
- data jacks;
- wireless access to the SIUE network;
- expanded digital cable TV service with access to UHTV- 3.1, an in-house movie channel;
- 24-hour security;
- access for persons with disabilities;
- social lounges (includes kitchenette, TV, and microwave) and study lounges on each wing;
The activity center at Cougar Village is the Commons Building. The Commons features a lounge with a widescreen TV, the Commons Grill and Convenience Store, computer laboratory with Internet access, laundry, multifunction room and staff offices. Several outdoor tennis courts, sand volleyball and basketball courts also can be found in Cougar Village. Apartments include: wireless access to the SIUE network, expanded digital cable television with access to UHTV-3.1, an in-house movie channel, locked mailboxes, storage closet assigned to each apartment and free shuttle to campus core.

Application
To apply for on-campus housing at SIUE, students must submit a completed housing application along with a $300 deposit (consisting of a $25 non-refundable application fee, a $75 security deposit, and $200 applied toward room charges). The application/contract is not complete and will not be considered without the $300 deposit. Students should apply for University Housing early due to limited availability. The deadline for fall-spring contracts is May 1; the deadline for spring only is December 1; and the deadline for summer only is April 1. The Family Housing application is also available online. Family residents are required to pay a $175 deposit ($25 non-refundable application fee and $150 applied toward room charges). Penalties are assessed for cancellation of the housing contract. You must be admitted to the University in order to apply for University Housing. For more information about University Housing, write the Central Housing Office, P.O. Box 1056, Edwardsville, IL 62026-1056, call 618-650-3931, or email housing@siue.edu. Messages may be left after hours, on holidays and on weekends. Additional information may be found at siue.edu/housing.

Off-Campus Housing
University Housing offers information about off-campus facilities to help students, faculty, and staff locate available accommodations in the Edwardsville area. Students can visit offcampushousing.siue.edu for listings. The University reserves the right to deny the privilege of listing off-campus housing on the University Housing website if landlords do not comply with the Civil Rights Act of 1968, other laws governing discrimination, or governmental health and safety standards.
University Police
SIUE police are committed to providing a safe and secure environment for students, employees and visitors, and to enforcing all state and federal laws and institutional policies and regulations to ensure such an environment. The University Police Department is housed in the Supporting Services Building and provides services at all times. The non-emergency telephone number for University Police is 618-650-3324. Emergency 911 calls are directed to the University Police Department, which is responsible for dispatching appropriate police, fire or ambulance services.

Other police services include helping retrieve keys from locked vehicles, jump-starting inoperable vehicles, and providing tools to engrave items for theft prevention. University Police provide a safety escort service for University community members. University Police operate under a Community Oriented Policing philosophy, which sets the foundation for providing quality service based on high ethical standards. It includes being responsive and responsible to the community by building partnerships with students, faculty and staff. University Police are highly visible through foot and vehicular patrols.

The University Police Department publishes the SIUE Annual Security and Fire Safety Report, available online at siue.edu/securityreport. The report contains campus safety and security information, crime statistics, fire safety policies and fire statistics for the previous three calendar years. This report is published in compliance with Federal law, titled the “Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act” and the Higher Education Opportunity Act also known as the “Campus Fire Safety Right to Know.” For those without computer access, a paper copy of the report may be obtained, with a 24-hour notice, from the Office of the Vice Chancellor for Administration, Rendleman Hall, Room 2228, 618-650-2536

University campuses, like all other communities, are not immune to crime. Students, faculty, and staff are urged to take advantage of safety programs, to take all reasonable precautions for their own safety and to report all crimes. Non-Emergency Telephone Number: 618-650-3324; Emergency: 911

Veterans Services
The Office of Veteran Services is a main point of contact for all veterans, their dependents/spouses, or survivors. It is staffed by VA work study students whose goal is to make the transition to SIUE a smooth process. Although Veteran Services is available for all campus related questions, below is a list of the most common services provided:

- Enrollment Assistance
- VA Educational Benefits
- On/Off Campus Resources
- Deployment Withdrawal
- Student Veteran Association
- SALUTE National Honor Society

The Veteran Services website contains information on the above services. Most notably, the website has an “About/Contact” us tab where students can find several methods in which to reach Veteran Services.

- http://www.siue.edu/veterans/
- Veteran Services Help Desk: 618-650-5425
- Veteran Services Email: veteranservices@siue.edu
- Facebook: https://www.facebook.com/SIUEVSO/

Veterans Certification
The Office of Veterans Certification is in Rendleman Hall, room 1207, within the Office of the Registrar, and helps students with use of educational benefits administered through the Department of Veterans Affairs, including:

- The Post-9/11 GI Bill
- Montgomery GI Bill – Active Duty (MGIB-AD)
- Montgomery GI Bill – Selected Reserve (MGIB-SR)
- Reserve Educational Assistance Program (REAP)
- Veterans Educational Assistance Program (VEAP)
- Survivors’ and Dependents’ Educational Assistance Program (DEA)

SIUE will certify your enrollment and charges, if appropriate, to the Department of Veterans Affairs upon receipt of the Veterans Benefits Information form and confirmation of enrollment. The Veterans Benefits Information form is available at siue.edu/registrar and at the Service Center, Rendleman Hall, room 1309. If you make changes to your enrollment or program of study following initial submission
of your request, you should report these changes as soon as possible to Veterans Certification in person in Rendleman Hall, room 1207. Information also is available on the Registrar’s Veterans Certification website, siue.edu/Registrar/forms/veterans.shtml and on the Veterans Services website at siue.edu/veterans.

Additional information about veterans’ education benefit programs is available at benefits.va.gov/gibill. Please note that SIUE does not certify eligibility to receive benefits. If you have questions related to your eligibility, you should contact the Department of Veterans Affairs at 888-442-4551.

Information about the Illinois Veterans Grant, Illinois National Guard Funding, and POW/MIA benefits is available through the Office of Student Financial Aid, Rendleman Hall, Room 2308.

Staff in SIUE’s Transfer Center in the Office of the Registrar are available to help students with transfer of credit and application of basic training/military credit. More information about transfer credit and military credit acceptance practices and procedures is available at siue.edu/transfer.

Veterans enrolled at SIUE daily make use of the many services offered to students, including Disability Support Services, Counseling and Health Services, Career Development Center, and academic support services.

**Senior Assignment**

All seniors are required to complete the Senior Assignment that demonstrates breadth commensurate with SIUE’s general education expectations and proficiency in the academic major. The Senior Assignment represents the culmination of the entire undergraduate experience at SIUE and should integrate the best aspects of each student’s baccalaureate education. Each academic major has its own Senior Assignment, so the specifics of the requirement vary, but they share a challenge to each SIUE student to achieve individual academic excellence. This is what distinguishes baccalaureate education at SIUE.

Students must satisfy all general education components to obtain a baccalaureate degree from Southern Illinois University Edwardsville.

**Senior Assignment**

The Senior Assignment represents the culmination of the entire undergraduate experience at SIUE and should integrate the best aspects of each student’s baccalaureate education. All seniors are required to complete the Senior Assignment that demonstrates breadth commensurate with SIUE’s general education expectations and proficiency in the academic major. This requirement arises from the University’s belief that the ability to integrate a general education perspective into one’s academic discipline is an essential mark of a University-educated person. The Senior Assignment fosters creativity and self-reliance by encouraging each student to complete and reflect upon a meaningful project for the major. As such, the Senior Assignment represents a major commitment by the SIUE faculty to undergraduate learning. Each academic major has its own senior assignment and, therefore, an individual assignment may involve, for example, library inquiry, laboratory experiments, field inquiry, or artistic creativity. Therefore, a given Senior Assignment may culminate in an artistic performance, public speech, written thesis, gallery presentation, or a combination of these with other forms of expression. Individual Senior Assignments differ, but they share a challenge to each SIUE student to achieve individual academic excellence. This is what distinguishes baccalaureate education at SIUE.

**Assessment and the Senior Assignment**

The purpose of assessment of undergraduate education is to help the University determine the extent to which it is fulfilling its mission of educating undergraduate students. Assessment allows the University to improve its program structure, course content, and pedagogy. It also assists in advisement and placement, and provides students with indicators of their performance. Finally, assessment monitors the competence of graduating students, not just in terms of disciplinary expertise, but also with respect to the attainment of a general education. Much of assessment is embedded within the teaching function of the university and, ideally, occurs alongside each student’s regular academic effort.

**The Senior Assignment**

All seniors are required to complete a capstone experience called Senior Assignment (SRA). SRA demonstrates breadth commensurate with SIUE’s general education expectations and proficiency in the academic major. The SIUE Senior Assignment (SRA) optimizes assessment that recognizes the importance of open-ended, holistic, problem-based assessment that requires critical thinking. This
requirement arises from the University’s belief that the ability to integrate a general education perspective into one’s academic discipline is an essential mark of a university-educated person.

The SRA is the hallmark of a baccalaureate education at SIUE. It serves as a demonstrable connection between the student’s major area of study and the general education skills and competencies. Each department or program has ownership over its Senior Assignments, thus the faculty has been given the autonomy to construct the SRA to assess the unique capabilities of their graduates as well as overall program effectiveness and the degree of interdisciplinary competence among graduates. Due to the diversity in programs, Senior Assignment may culminate in an artistic performance, public speech, written thesis, gallery presentation, or a combination of these with other forms of expression. Individual Senior Assignments differ, but they share a challenge to each SIUE student to achieve individual academic excellence. This is what distinguishes baccalaureate education at SIUE.
ACADEMIC PROGRAMS & GENERAL EDUCATION
Degrees and Programs

Abbreviations
B.A. Bachelor of Arts
B.F.A. Bachelor of Fine Arts
B.L.S. Bachelor of Liberal Studies
B.M. Bachelor of Music
B.S. Bachelor of Science
B.S.A. Bachelor of Science in Accountancy
B.S.W. Bachelor of Social Work
D.M.D. Doctor of Dental Medicine
D.N.P. Doctor of Nursing Practice
Ed.D. Doctor of Education
Ed.S. Education Specialist
M.A. Master of Arts
M.B.A. Master of Business Administration
M.F.A. Master of Fine Arts
M.M. Master of Music
M.M.R. Master of Marketing Research
M.P.A. Master of Public Administration
M.S. Master of Science
M.S.A. Master of Science in Accountancy
M.S.Ed. Master of Science in Education
M.S.W. Master of Social Work
P.B.C. Post-Baccalaureate Certificate
P.M.C. Post-Master’s Certificate
P.S.M. Professional Science Master’s
Pharm.D. Doctor of Pharmacy
S.D. Specialist Degree

College of Arts and Sciences

Anthropology B.A., B.S.
Applied Communication Studies B.A., B.S., M.A.
Graduate Specializations:
Health Communication
Interpersonal Communication
Organizational Communication
Public Relations
Art B.A., B.S., M.F.A.
Undergraduate Specializations:
Art Education
Art History
Art Studio
Graduate Specialization:
Studio
Art and Design B.F.A.
Art Therapy Counseling M.A.
Biological Sciences B.A., B.S., M.A., M.S
Undergraduate Specializations:
Ecology, Evolution, Environment
Genetics and Cellular Biology
Integrative Biology
Medical Science
Medical Technology
Chemistry B.A., B.S., M.S.
Undergraduate Specializations:
ACS Certified in Biochemistry
ACS Certified in Chemistry
Medical Science
Creative Writing M.F.A.
Criminal Justice Studies B.A., B.S., M.S.
Earth and Space Science Education B.S.
Economics B.A., B.S.
English B.A., M.A.
Undergraduate Specialization:
Secondary English Language Arts
Literature
Teaching English as a Second Language
Teaching of Writing
Graduate Specializations:
Literature
Teaching of Writing
Environmental Sciences B.A., B.S., M.S.
Undergraduate Specializations:
Environmental Health
Environmental Management
Environmental Toxicology
Environmental Science Management P.S.M.
Foreign Languages and Literature B.A., B.S.
Undergraduate Specializations:
French
German
Spanish
Geography B.A., B.S., M.S.
History B.A., B.S., M.A.
Undergraduate Specialization:
Applied Historical Methods
Museum Studies P.B.C.
Integrative Studies B.A., B.S., P.B.C
International Studies B.A.
Liberal Studies B.L.S.
Mass Communications B.A., B.S.
Media Literacy P.B.C.
Mathematical Studies B.A., B.S.
Undergraduate Specializations:
Actuarial Science
Applied Mathematics
Pure Mathematics
Statistics
Mathematics M.S.
Graduate Specializations:
Computational and Applied Mathematics
Postsecondary Mathematics Education
Pure Mathematics
Statistics and Operations Research

Media Studies M.S.
Music B.A., B.M., M.M.
Undergraduate Specializations:
Jazz Performance
Music Business
Music Education
Music History/Literature
Music Performance
Music Theory and Composition
Musical Theater
Piano Pedagogy P.B.C.
Vocal Pedagogy P.B.C.
Graduate Specializations:
Music Education
Music Performance
Philosophy B.A. B.S.
Undergraduate Specializations:
Law
Physics B.S.
Undergraduate Specializations:
Astronomy
Biomedical Physics
Photronics and Laser Physics
Political Science B.A., B.S.
Public Administration M.P.A.
Social Work B.S.W., M.S.W.
Graduate Specialization:
School Social Work
Sociology B.A., B.S., M.A.
Undergraduate Specialization:
Diversity and Social Justice
Employment Relations
Theater and Dance B.A., B.S.
Undergraduate Specializations:
Dance
School of Business

Accountancy  B.S.A., M.S.A.
Graduate Specialization:  
Business Analytics  
Taxation

Business Administration  B.S., M.B.A.
Undergraduate Specializations:  
Economics  
Entrepreneurship  
Finance  
Human Resource Management  
International Business  
Management  
Management and Information Systems  
Marketing

Graduate Specializations:  
Business Analytics  
Management & Information Systems  
Project Management

Business Economics and Finance  B.S.

Computer Management and Information Systems  B.S., M.S.
Graduate Specializations:  
Business Analytics  
Project Management

Economics and Finance  M.A., M.S.
Graduate Specializations:  
Business Analytics

Marketing Research  M.M.R.
Graduate Specializations:  
Business Analytics

School of Dental Medicine

Dentistry  D.M.D.
Advanced Education in General Dentistry  P.M.C.

School of Education, Health, and Human Behavior

College Student Personnel Administration  M.S.Ed.
Curriculum and Instruction  M.S. Ed.
Early Childhood Education  B.S.
Educational Administration  M.S.Ed., Ed.S.
Educational Leadership  Ed.D.
Elementary Education  B.S.
Exercise Science  B.S.
Instructional Technology  M.S.Ed.
Classroom Technologies  P.B.C.
Web-based Learning  P.B.C.
Kinesiology  M.S.Ed., M.S.

Graduate Specialization:  
Exercise Physiology  
Physical Education and Coaching Pedagogy  
Exercise and Sport Psychology

Learning, Culture and Society  M.S.Ed.
Literacy Education  M.S.Ed.
Literacy Specialist  P.M.C.
Middle Level Education  B.S.
Nutrition  B.S.
Psychology  B.A., B.S., M.A., M.S.

Graduate Specializations:  
Clinical Psychology  
Clinical Child and School Psychology  
Industrial-Organizational

Public Health  B.S.
School Psychology  S.D.
Special Education  B.S., M.S.Ed.
Speech Language Pathology  M.S.
Speech-Language Pathology and Audiology  B.A., B.S.

School of Engineering

Civil Engineering  B.S., M.S.

Graduate Specializations:  
Environmental Engr/Water Resources  
Geotechnical Engineering  
Structural Engineering  
Transportation Engineering

Computer Engineering  B.S.

Computer Science  B.A., B.S., M.S.

Construction Management  B.S.

Undergraduate Specialization:

Electrical Engineering  B.S., M.S.

Industrial Engineering  B.S., M.S.

Undergraduate Specialization:

Manufacturing Engineering

Mechanical Engineering  B.S., M.S.

Mechatronics & Robotics Engineering  B.S.

Graduate Studies and Research

Healthcare Informatics  M.S.

Integrative Studies  M.A., M.S., P.B.C.

School of Nursing

Family Nurse Practitioner  M.S., P.M.C.

Health Care and Nursing Administration  M.S., P.M.C.

Nurse Educator  M.S., P.M.C.

Nursing  B.S.

Nursing Practice  D.N.P.

Graduate Specializations:

Family Nurse Practitioner  
Nurse Anesthesia

School of Pharmacy

Pharmaceutical Sciences  M.S.

Pharmacy  Pharm.D.

Graduate Specialization:

Pharmacy Education  
Pharmacy Pediatrics

Minor Programs of Study

Aerospace Studies

African Studies

Anthropology

Applied Communication Studies

Applied Historical Studies

Art/Art History

Art/Studio Art

Asian Studies

Biological Sciences

Black Studies

Business Administration/General

Chemistry

Classical Studies

Computer Engineering

Computer Science

Construction Management

Creative Writing

Criminal Justice Studies

Digital Humanities and Social Sciences

Economics

Education Studies and Analysis

Electrical Engineering

English/Linguistics

Environmental Sciences

European Studies/Civilization

Exercise and Sport Psychology

Forensic Sciences

French

Geographic Information Systems
Analytic, Problem-Solving, and Decision-Making Skills — All students will develop skills in information literacy and quantitative literacy, and develop the ability to understand and interpret written and oral texts, and to recognize, develop, evaluate, and defend or attack hypotheses and arguments. These skills are to be developed throughout all undergraduate programs in all courses.

Oral and Written Communication Skills — All students will develop skills in expository, argumentative, and creative writing, and in effective speaking and listening through extensive and regular writing assignments, oral presentations, and participation in discussionss.

Foundation in Liberal Arts and Sciences — All students will acquire a solid base of knowledge in liberal arts and sciences and of the contributions of these fields to civilization and to the quality of life. All undergraduate degree programs at SIUE, including professional programs, are rooted in the liberal arts and sciences through the integration of each major program with the general education program.

Value of Diversity — All students will gain an understanding of the traditions that influence individuals and communities in order to develop a respect for and a sensitivity to human diversity. Students will gain a deeper understanding of global interdependence.

Scientific Literacy — All students will have experience in the methods of scientific inquiry in laboratory and field investigation and gain knowledge of scientific and technological developments and their influence on society.

Ethics — All students will understand the nature of value judgments, will have an ability to make reasoned and informed value judgments, and will appreciate the diversity among cultures with respect to mores and traditional standards of conduct.

Preparation in an Academic or Professional Discipline — Students completing the baccalaureate degree will have attained a level of achievement within an academic or professional discipline which will enable them either to begin a career in the discipline or to pursue graduate work in that or an appropriately related discipline.

The specific components of the general education program, also referred to as the Lincoln Program, are:
FOUNDATIONS: All students are required to take five (5) Foundations courses which develop competencies in written and oral communication, logic, and quantitative literacy that form the bases of information literacy and scientific literacy;

BREADTH AREAS: All students are required to take six (6) Breadth courses (one from each of the following areas) which provide the opportunity to explore the breadth of human knowledge by introducing students to the principles, substance, and methodology of disciplines beyond their major. These courses are distributed across six Breadth Areas: Fine and Performing Arts, Humanities, Information and Communication in Society, Life Sciences, Physical Sciences, and Social Sciences;

INTERDISCIPLINARY STUDIES: All students are required to take one (1) Interdisciplinary Studies course to foster awareness of the interrelationships among branches of human knowledge;

EXPERIENCES:
- New Freshman Seminar: All new freshmen are required to enroll in a New Freshman Seminar that introduces students to university learning, expectations and procedures by exploring various topics of academic and civic interest with a faculty member;
- Laboratory Experience: All students are required to take a laboratory course in order to develop scientific literacy that helps shape informed citizens;
- United States Cultures Experience: All students are required to take a course or complete an approved project or activity that explores the diverse, pluralistic population of the United States and the contributions these diverse groups have made to our shared culture;
- Global Cultures Experience: All students are required to take a course or complete an approved project or activity that explores one or more non-U.S. cultures in order to gain an appreciation and understanding of human diversity in a dense, globally interconnected world;
- Health Experience: All students are required to participate in a health-related course or complete an approved project or activity in order to promote improved health and well-being.

SENIOR ASSIGNMENT: All seniors are required to complete the Senior Assignment that demonstrates breadth commensurate with SIUE’s general education expectations and proficiency in the academic major. The Senior Assignment represents the culmination of the entire undergraduate experience at SIUE and should integrate the best aspects of each student’s baccalaureate education. Each academic major has its own Senior Assignment, so the specifics of the requirement vary, but they share a challenge to each SIUE student to achieve individual academic excellence. This is what distinguishes baccalaureate education at SIUE.

DIVERSITY OF KNOWLEDGE: To accommodate the diversity of knowledge, the diverse interests of students, and the needs of an increasingly technical society, the University offers the Bachelor of Arts (BA), the Bachelor of Science (BS), the Bachelor of Liberal Studies (BLS) and professional baccalaureate degrees. The Lincoln Program supports baccalaureate education at SIUE by playing a foundational role in imparting the abilities and knowledge that define the common core of all of these degrees. University-wide criteria mandate the manner in which departments and programs inflect the broad content of these respective degrees in order to assure that they are equivalent and meaningfully differentiated degrees.

Students must satisfy all general education components to obtain a baccalaureate degree from Southern Illinois University Edwardsville.
### Summary of University-wide Baccalaureate Requirements

The total number of General Education courses required of students depends on the number of courses that a student takes that satisfy multiple requirements. The Lincoln Program can be completed with between 17 and 18 courses. The courses used to satisfy general education requirements may also apply toward fulfillment of major requirements. With appropriate selection of courses, students may complete most degree programs within the University’s minimum of 120 credit hours.

#### Foundations: 15 hours
- ENG 101-FW1/IAI C1 900, Minimum grade of C, Completed within first 30 hours
- ENG 102-FW2/IAI C1 901R, Minimum grade of C, Completed within first 45 hours
- ACS 101*-FSPC/IAI C2 900, Completed within first 30 hours
- RA 101-FRA/IAI H4 906, Completed within first 45 hours
- QR 101**-FQR/IAI M1 901/Proficiency, Completed within first 60 hours
  *ACS 103 may be substituted
  ** MATH 145/150 or higher with a minimum grade of C may be substituted

#### Breadth: 18 hours
- Fine & Performing Arts — BFPA*/IAI F, HF
- Humanities — BHUM*/IAI H
- Info & Communication in Society — BICS*/IAI M1 902
- Life Science — BLS*/IAI L
- Physical Science — BPS*/IAI P
- Social Science — BSS*/IAI S

Take 3 credit hours from each area. No more than 6 credit hours from the same department.

#### Interdisciplinary Studies: 3 hours
- IS* Course
  Must be junior/senior level class.
  Is not waived with completion of transfer associate degree or IAI-GECC.

#### Experiences
- New Freshman Seminar — FRSM, Completed within first 30 hours
- Laboratory — EL/IAI xxxL
- United States Cultures — EUSC*/IAI xxxD
- Global Cultures — EGC*/IAI xxxN (Course/Project/Activity)
- Health — EH* (Course/Project/Activity)

#### Diversity of Knowledge 24 hours
- Bachelor of Arts degree requires completion of 8 courses in fine & performing arts (BFPA* or FPA*) and humanities (BHUM* or HUM*) including two semesters of the same foreign language (FL*)
- Bachelor of Science degree requires completion of 8 courses in life (BLS* or LS*), physical (BPS* or PS*) or social science (BSS* or SS*) including 2 labs (EL*)
- Bachelor of Liberal Studies and professional baccalaureate degree requires completion of either 8 courses in fine & performing arts (BFPA* or FPA*) and humanities (BHUM* or HUM*) including two semesters of the same foreign language (FL*) or 8 courses in life (BLS* or LS*), physical (BPS* or PS*) or social science (BSS* or SS*) including 2 labs (EL*)

Is not waived with completion of transfer associate degree or IAI-GECC.

#### Senior Assignment
- Requirement established by individual departments or programs
  Completed senior year.
  Is not waived with completion of transfer associate degree or IAI-GECC.

#### Notes
- No more than five courses earned through proficiency may be applied towards general education requirements.
- Courses used to fulfill Experience requirements may be used to satisfy other requirements as appropriate.
- Students failing to complete noted courses within required timeframes will not be eligible to continue without enrollment in required course(s) or appropriate authorization.
- Students will not be permitted to enroll in more than one New Freshman Seminar course.
- Breadth courses may also be applied toward fulfillment of the Diversity of Knowledge requirement as appropriate.

*Approved courses are identified in the course descriptions section with this attribute. Lists of approved classes may also be obtained at siue.edu/registrar/genedguides.shtml.*
Proficiency examinations for General Education Credit

Proficiency examinations are available for all Foundations courses in the general education curriculum. Students who successfully pass a proficiency examination for a course have fulfilled that Foundations requirement. Credit hours earned from successful completion of a proficiency examination in a Foundations course will contribute toward general education hours earned toward the baccalaureate degree.

Proficiency examinations may also be available for the Breadth and Cultures (EUSC and EGC) requirements in the general education curriculum. Some of these tests are administered by the Testing Services or by individual departments. Students interested in taking a proficiency examination should contact Testing Services in the Student Success Center, Room 1246 (618-650-1246) or the department involved. A list of proficiency examinations offered to students may be found at [http://www.siue.edu/testing/proficiency/proficiency_list.shtml](http://www.siue.edu/testing/proficiency/proficiency_list.shtml). Students who pass an SIUE departmentally administered proficiency examination, or receive a departmentally recognized AP score, may receive credit for the Breadth course and Cultures course as well as credit that counts toward the 120 hours required for graduation.

Proficiency examinations are not available for New Freshman Seminar or Interdisciplinary Studies courses.

Proficiency examinations are not available for New Freshman Seminar or Interdisciplinary Studies courses.

Re-entering Students

Former students who have not attended SIUE for three or more terms, including summer, must apply for readmission. Re-entering students who have not attended in seven years are advised that they may not graduate under the general education major or minor requirements published in a catalog more than seven years old without the written permission of the dean of the school/college in which the student’s major is housed. Such written permission shall be submitted to the Office of the Registrar with the application for graduation. Academic work for students who re-enter the University after a seven-year period will be re-evaluated according to the current catalog. Once students have been readmitted to the University, they will be instructed to make an appointment with an advisor to determine the most efficient means of completing degree requirements.

Transferring Students

Transfer students may satisfy SIUE’s General Education Program by:

1.) (a) satisfying the Illinois Articulation Initiative (IAI) General Education Core Curriculum or completing an Associate of Arts, Associate of Science, or Associate of Science and Arts from an Illinois public institution, and;

(b) completing an Interdisciplinary Studies course and the Diversity of Knowledge requirement

OR

2.) fulfilling all requirements of SIUE’s Lincoln Program.

Note: Students must satisfy the Written Expression Foundations requirements (English 101 and 102) with grades of C or better. Finally, no credit will be accepted for remedial or developmental courses or for any coursework completed at unaccredited institutions.

Transcript Evaluations

Appropriately qualified personnel at the University will perform an evaluation of transfer credit to determine completion of the General Education requirements of the University. Students are entitled to a full explanation of the evaluations they receive.

Transcript evaluations will be completed for course work earned at regionally accredited institutions. A course-by-course evaluation of transfer credit determining equivalency and/or general education requirements is provided to all freshman/transfer students upon admission, and to returning/continuing students upon receipt of official transcripts. Students seeking a second bachelor’s degree do not receive an evaluation.

Questions relating to the transfer credit evaluation should be directed to the Transfer Center, Rendleman Hall, room 1218, (618) 650-2133, or email at transfercredit@siue.edu. Questions relating to how a course may transfer to SIUE should be directed to an admission counselor, Rendleman Hall, room 2120 (618) 650-3705.

Course Numbering and Attribute System

The course numbering and attribute system identifies those courses appropriate for meeting the Breadth, Interdisciplinary Studies and
Experience requirements. The Foundations requirements are each met by discrete courses. It also helps students select courses appropriate for their class level.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>BFPA</td>
<td>Breadth Fine and Performing Arts requirement</td>
</tr>
<tr>
<td>BHUM</td>
<td>Breadth Humanities requirement</td>
</tr>
<tr>
<td>BICS</td>
<td>Breadth Information and Communication in Society requirement</td>
</tr>
<tr>
<td>BLS</td>
<td>Breadth Life Sciences requirement</td>
</tr>
<tr>
<td>BPS</td>
<td>Breadth Physical Sciences requirement</td>
</tr>
<tr>
<td>BSS</td>
<td>Breadth Social Sciences requirement</td>
</tr>
<tr>
<td>IS</td>
<td>Interdisciplinary Studies upper-division course requirement</td>
</tr>
<tr>
<td>FRSM</td>
<td>New Freshman Seminar requirement</td>
</tr>
<tr>
<td>EL</td>
<td>Experience Laboratory requirement</td>
</tr>
<tr>
<td>EUSC</td>
<td>Experience United States Cultures requirement</td>
</tr>
<tr>
<td>EGC</td>
<td>Experience Global Cultures requirement</td>
</tr>
<tr>
<td>EH</td>
<td>Experience Health requirement</td>
</tr>
</tbody>
</table>

In general, the first digit of a course number identifies the class level (freshman, sophomore, junior, or senior) appropriate for enrollment in the course. The following is a guide for the SIUE course numbering system:

**000-099**: Courses that do not carry credit toward graduation.

**100-200**: Courses most appropriate for freshmen and sophomores. Courses typically assume little or no previous exposure to specific subject matter beyond the secondary-level; focus on incorporating and recalling basic information and developing basic understanding of connection between terms and concepts; begin to develop the capacity to integrate skills, terms and concepts throughout the course and from other introductory courses.

**300-400**: Courses most appropriate for juniors and seniors. Courses typically assume familiarity with basic terms, concepts, techniques and approaches of the discipline; focus on development of specialized terms, concepts, techniques and approaches with more narrowly defined topics; develop students’ capacities to integrate across multiple topics to be able to recognize deeper, possibly predictive patterns; students willing to create products with limited guidance from instructor and to pose novel questions that may not have ready answers.

**500**: Graduate courses not accepted for application to a Bachelor’s degree.

### Illinois Articulation Initiative

The purpose of the Illinois Articulation Initiative (IAI) is to identify common curriculum requirements across associate and baccalaureate degrees and across institutions in order to facilitate student transfer. The Illinois Transferable General Education Core Curriculum identifies the common general education coursework. SIUE is a participant in the Illinois Articulation Initiative. Completion of the general education core curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for a bachelor’s degree have been satisfied.

For more information, contact the Transfer Center at (618) 650-2133 or e-mail us at transfercredit@siue.edu. Additional information is available on the IAI Website, itransfer.org.

### Illinois Articulation Initiative General Education Core Requirements

#### Communication

3 courses (9 semester credits), including a two-course sequence in writing (6 semester credits, C grade required) and one course in oral communication (3 semester credits)

#### Mathematics

1 to 2 courses (3 to 6 semester credits)

#### Physical and Life Sciences

2 courses (7 to 8 semester credits), with one course selected from the life sciences and one course from the physical sciences and including at least one laboratory course

#### Humanities and Fine Arts

3 courses (9 semester credits) with at least one course selected from humanities and at least one course from the fine arts
Social and Behavioral Sciences
3 courses (9 semester credits), with courses selected from at least two disciplines
Total: 12 to 13 courses (37 to 41 semester credits)
INTERDISCIPLINARY STUDIES
# Integrative Studies

## Degree Programs
Bachelor of Arts, Integrative Studies  
Bachelor of Science, Integrative Studies

## Program Description
The Integrative Studies degree is an interdisciplinary program that is geared towards students who have diverse academic interests that span across disciplines and would like to meld these interests into one cohesive program. It provides an opportunity for students to widen their perspectives by exploring and making connections between different fields of study. The program offers students an avenue for embracing their individuality by designing a unique B.A. and B.S. degree that will help them achieve their personal and career goals. By designing their own program of study, in consultation with a professional advisor and faculty mentor, students take responsibility for their educational and career planning.

A bachelor’s degree in Integrative Studies can lead to a multitude of avenues for connecting coursework with career goals. Individuals who may want to start a business, pursue careers in sales, management, nonprofit, social service, or technological fields, continue on to a graduate program or pursue a professional certification can benefit from an Integrative Studies degree.

## General Education Requirements
### Foundations Courses
- ENG 101  
- ENG 102  
- QR 101  
- RA 101  
- ACS 101

### Sample Curriculum for the Bachelor of Science in Integrative Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>CHEM 121A - General Chemistry I (BPS)</td>
<td>CHEM 121B - General Chemistry II</td>
</tr>
<tr>
<td>CHEM 125A - General Chemistry Lab I (EL)</td>
<td>CHEM 125B - General Chemistry Lab II</td>
</tr>
<tr>
<td>ENG 101 - English Composition I</td>
<td>BIOL 150 - Intro to Biological Sciences I</td>
</tr>
<tr>
<td>MATH 150 - Calculus I</td>
<td>STAT 244 - Statistics</td>
</tr>
<tr>
<td>ACS 101 - Public Speaking</td>
<td>ENG 102 - English Composition II</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**Breadth Areas**
One from each of the following:
- Fine & Performing Arts (BFPA)  
- Humanities (BHUM)  
- Information & Communication in Society (BICS)  
- Life Science (BLS)  
- Physical Science (BPS)  
- Social Science (BSS)

**Experiences**
- Lab (EL)  
- Health (EH)  
- New Freshman Seminar (NFS)  
- Global Cultures (EGC)  
- United States Cultures (EUSC)

**Focus Areas**: At least two  
(For each focus area, coursework should be equivalent to a minor)

**Program Electives**:  
(These courses should reflect the student’s areas of interest; May be minor/s; drawn up jointly by advisor and student)

**Leadership Course Requirement**:  
At least one course from the following:  
- PSYC 320  
- PSYC 365  
- PSYC 474  
- SOC 338  
- SOC 420  
- UNIV 300

*Experiences can double dip with other courses.

**Students may take a Minor in Business Administration according to the catalog provisions with 3 required courses (Required courses: ECON 111, ECON 112, ACCT 200) and no more than 18 hours of elective courses. All course prerequisites must be honored as stated in the SIUE Undergraduate Catalog. Under no circumstances should coursework in the School of Business exceed 27 credit hours.*
Sample Curriculum for the Bachelor of Science in Integrative Studies
Focus Areas: Biological Sciences, Criminology and Forensics cont.

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td>BIOL 151 – Intro to Biological Sciences I .................. 4</td>
<td>BIOL 220 - Genetics ...................................... 4</td>
</tr>
<tr>
<td>CHEM 241A - Organic Chemistry I .................................. 3</td>
<td>CHEM 241B - Organic Chemistry II ........................... 3</td>
</tr>
<tr>
<td>RA 101 - Reasoning and Argumentation ........................... 3</td>
<td>CHEM 245 - Organic Chemistry Lab ............................ 2</td>
</tr>
<tr>
<td>PSYC 111 ................................................................... 3</td>
<td>PHYS 131A - College Physics I ................................ 5</td>
</tr>
<tr>
<td>Breadth Fine Arts (Experience Global Cultures) ............. 3</td>
<td>Total .................................................................. 14</td>
</tr>
<tr>
<td>Total ...................................................................... 16</td>
<td></td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
</tr>
<tr>
<td>CJ 111 - Intro to Criminal Justice ............................. 3</td>
<td>BIOL 319 - Cell &amp; Molecular Biology ....................... 4</td>
</tr>
<tr>
<td>Breadth Humanities (Experience United States Cultures) .... 3</td>
<td>CJ 206 - Criminal Law ....................................... 3</td>
</tr>
<tr>
<td>BIOL 423 - Forensic Biology ....................................... 3</td>
<td>Health Experience (EH) ...................................... 2</td>
</tr>
<tr>
<td>PSYC 320 .................................................................. 3</td>
<td>ANTH 369 - Intro to Forensic Anthropology .................. 3</td>
</tr>
<tr>
<td>INTG 300 .................................................................. 3</td>
<td>Elective .................................................................. 3</td>
</tr>
<tr>
<td>Total ...................................................................... 15</td>
<td></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td>ANTH 469 - Forensic Anthropology Applications ................ 3</td>
<td>INTG 499 - Senior Assignment .................................. 3</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS) ..................................... 3</td>
<td>Elective .................................................................. 2</td>
</tr>
<tr>
<td>BIOL 389 - Comparative Vertebrate Anatomy .................... 4</td>
<td>Quantitative Analytical Chemistry ............................ 3</td>
</tr>
<tr>
<td>CJ 272 - Criminology .................................................. 4</td>
<td></td>
</tr>
<tr>
<td>Total ...................................................................... 16</td>
<td></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td>ANTH 469 - Forensic Anthropology Applications ................ 3</td>
<td>INTG 499 - Senior Assignment .................................. 3</td>
</tr>
<tr>
<td>CJ 207 - Criminal Procedures ...................................... 3</td>
<td></td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS) ..................................... 3</td>
<td></td>
</tr>
<tr>
<td>BIOL 389 - Comparative Vertebrate Anatomy .................... 4</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Total ...................................................................... 16</td>
<td></td>
</tr>
</tbody>
</table>

The University requires students earning a B.S. Degree to complete at least eight (8) courses in the sciences (life, physical, or social), including, as a part of those eight courses, two (2) courses designated as labs (EL).

**Graduation Requirements**

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - At least 60 of which must be at the 200-level or above
  - At least 40 of which must be at the 300-level or above, at least 30 of which must be earned at SIUE
  - A minimum cumulative grade point average of 2.0
  - File an Application for Graduation by the first day of the term in which you plan to graduate.

**International Studies**

**Degree Programs**

Bachelor of Arts, International Studies

**Program Description**

International Studies (INTS) is an interdisciplinary degree program designed to help students reflect on and engage in the complex social, political, economic, and cultural interrelations that exist among nations and regions of our increasingly globalized world. The program offers a broad range of curricular options in the College of Arts and Sciences, allowing students to explore, in regards to various peoples and across populations, aspects related to geography, history, religion, government, trade, communication, languages and literatures, music and arts, social justice and environmental challenges. Students in the program have opportunities to learn critical and analytical problem-solving skills that they can apply to contemporary global issues. Graduates with a bachelor’s degree in international studies
are qualified for many positions in diplomacy or with nonprofits, governmental and international organizations, and businesses.

Students have the option to specialize in one of the following three concentrations:

**International Art, Culture, and Communication:** Students who choose this concentration area have a career interest in the development, preservation, promotion, and strengthening of arts and national cultures to meet the challenges and opportunities of globalization and technological change. They also seek to improve access to knowledge, build networks, promote understanding, and enhance cooperation between art, culture, and communication organizations, councils, and agencies at national and international levels. Additionally, they seek opportunities to support cultural diversity and fair access in regards to the media and the arts.

**International Relations and Diplomacy:** Students who choose this concentration area have a career interest in the art and practice of conducting negotiations between representatives of groups, governments, or international organizations. Students gain the skills to engage in international relations through the intercession of professional diplomats with regard to issues of peacemaking, war, trade, economics, environment, culture, and human rights.

**International Development and Sustainability:** Students who choose this concentration area have a career interest in global sustainable development through innovation, research, and relationships that span the entire world. Sustainable development goes to the heart of tackling, through partnerships among various organizations, a number of interrelated global issues such as inequality, poverty, hunger, and environmental degradation.

**Program Application**
Applicants seeking a Bachelor’s degree in International Studies are expected to meet SIUE’s general undergraduate admission requirements.

To be admitted to the International Studies program, students must:

- Complete all academic development courses required by the University;
- Complete any required courses to address high school deficiencies;
- Attain a cumulative grade point average (GPA) of at least 2.0 on a 4.0 scale;
- Complete the General Education requirements for writing skills courses (i.e. ENG 101 and 102 or equivalent).

Admission into this program requires an application to declare a major. Students declaring a major in International Studies must select, in consultation with the program director and the program adviser, one of the three concentration areas and a minor.

**Program Requirements**
The International Studies major is an interdisciplinary 120-hour course of study. To earn a degree in International Studies from SIUE, students must complete all general education and specific program and concentration requirements, as follows:

- A 36 credit-hour university general education requirement (including a choice of an IS course with a global focus)
- A foreign language requirement (demonstration of a foreign language equivalent to passing the intermediate level of college-level courses, which can be achieved through 16 credit hours of foreign language courses)
- A 42 credit-hour major requirement, including: 12 credit hours of core courses; 6 credit hours of international travel study; 24 credit hours of major electives
- An 18 credit hour minor
- Additional general electives adding up to the 120-hour course of study

**Foreign Language Requirement**
Students majoring in International Studies must demonstrate knowledge of a foreign language equivalent to passing the intermediate level of college-level courses, which can be achieved through 16 credit hours of foreign language courses.

High school students who plan to major in International Studies at SIUE are highly recommended to complete at least three to four years of a foreign language.

New students at SIUE with an interest in International Studies as well as community college students who want to transfer to SIUE’s International Studies program should plan to take four semesters of foreign language coursework prior to declaring the International Studies major.
Study Abroad Requirement
This major requires six credit hours of international travel study, either for the duration of a semester or during a summer session, and thus immersion in a foreign culture and first-hand exposure to international issues. The international travel study must be chosen in consultation with the International Studies program director and International Studies advisor.

Core Classes (18 credit hours)
International Studies majors complete the following core courses:

**INTS 200 - Essentials of International Studies**
The course is designed to introduce students to the interdisciplinary character of international studies and to acquaint them with the major trends and themes in global affairs today. International studies topics are approached from a variety of disciplinary perspectives.

**GEOG 201 - World Regions**
This course offers a survey of major world areas in terms of population, settlement, and related human occupancy patterns.

**POLS 370 - Introduction to International Relations**
The course provides an overview of the past and current nation-state system, addressing power, national interests, foreign policy processes, war, international law and organizations, global problems and prospects.

**INTS 499 - International Studies Senior Assignment**
The course is designed to provide a capstone experience for the students in the interdisciplinary major of International Studies. It provides an opportunity to conduct research on an International Studies topic selected by the student, connected to a concentration area and linking specific disciplinary and geographic foci.

Elective Courses (24 credit hours)
Major electives must be selected in such a way as to be pertinent to the concentration area of interest to each student, in consultation with the International Studies program director and International Studies advisor.

Below are suggested elective courses:
*INTS 400 - Internship in International Studies (6 credit hours maximum)
*INTS 401 - Independent Project in International Studies (3 credit hours)
An internship with an international focus (INTS 400) and an independent project with an international focus (INTS 401) are not required but highly encouraged as major electives.

Anthropology
ANTH 111B - Human Culture and Communication
ANTH 202 - Anthropology Through Film and Fiction
ANTH 205 - Introduction to Native American Studies
ANTH 303 - Language, Culture, and Power
ANTH 304 - Symbols and Culture
ANTH 305 - People and Cultures of Native North America
ANTH 308 - Religion and Culture
ANTH 311 - People and Cultures of the African Diaspora
ANTH 312 - Contemporary Native Americans
ANTH 332 - Origins of Old World Cities and States
ANTH 333 - Origins of New World Cities and States
ANTH 340 - Environmental Anthropology
ANTH 359 - Anthropology and Human Rights
ANTH 404 - Anthropology and the Arts
ANTH 411 - Urban Anthropology

Applied Communications Studies
ACS 210 - Intercultural Communication
ACS 304 - Conflict Management and Communication
ACS 311 - Intercultural Communication
ACS 331 - Gender and Communication
ACS 413 - International Public Relations
ACS 431 - Public Relations Visual Communication

Art and Design
ART 225 - History of World Art
ART 447 - Ancient Art
ART 448 - Early Christian and Medieval Art
ART 449 - Italian Renaissance Art
ART 451 - Northern Renaissance Art
ART 467 - Islamic Art and Architecture
ART 468 - Native Arts of the Americas
ART 469 - Primitive Art: Africa and Oceania

Biological Sciences
BIOL 204 - Biotechnology and Society
BIOL 365 - Ecology
BIOL 371 - Plants and Civilization
BIOL 470 - Wildlife Management
BIOL 462 - Biogeography
BIOL 463 - Conservation Biology

Criminal Justice
CJ 366 - Race and Class in Criminal Justice
CJ 367 - Gender and Criminal Justice

Economics
ECON 111 - Principles of Macroeconomics
ECON 112 - Principles of Microeconomics
ECON 301 - Intermediate Microeconomic Theory
ECON 302 - Intermediate Macroeconomic Theory
ECON 327 - Social Economics: Issues of Income, Employment, and Social Policy
ECON 361 - Introduction to International Economics
ECON 461 - International Trade Theory and Policy

English Language & Literature
ENG 207 - Language Awareness
ENG 214 - Topics in World Literature: Ancient to Medieval
ENG 215 - Topics in World Literature: Renaissance to Modern
ENG 315 - Literature and Sustainability
ENG 318 - Language Endangerment and Death
ENG 340 - Topics in Global Literatures
ENG 344 - Topics in Ethnic Literature
ENG 416 - Language and Society
SPAN 412A - Study of Hispanic Cultures in the U.S.
SPAN 353 - Survey of Drama in the Spanish Language
Period until the Present
SPAN 352 - Survey of Spanish-American Literature: Colonial
SPAN 351 - Survey of Spanish Literature: Peninsular
SPAN 320 - Advanced Spanish Conversation
SPAN 312 - Contemporary Spanish America
SPAN 311 - Contemporary Spain
SPAN 307 - Business Spanish
SPAN 306 - Business Spanish
SPAN 305 - Advanced Spanish Conversation
SPAN 351 - Survey of Spanish Literature: Peninsular
SPAN 350 - Seminar in Hispanic Literature
SPAN 347 - Spanish-American Literature: Short Stories and
SPAN 491 - Cultural and Language Workshop: Spanish
Foreign Languages & Literature
FL 111A - Introduction to Foreign Studies: French
FL 111B - Introduction to Foreign Studies: German
FL 111C - Introduction to Foreign Studies: Spanish
FL 111D - Introduction to Foreign Studies: Chinese
FL 111E - Introduction to Foreign Studies: The French Speaking World
FL 111F - Latin American Culture
FL 345 - Literature in Translation
FL 491 - Cultural and Language Workshop
FR 311 - Contemporary France
FR 312 - Quebecois Culture and Literature
FR 320 - Advanced French Conversations
FR 351 - Survey of French Literature: Middle Ages through Classicism
FR 352 - Survey of French Literature: Enlightenment to Present
FR 353 - Survey of French Novel
FR 377 - French Culture Through Cinema
FR 402 - Business French
FR 451 - Studies in French Literature: Middle Ages through Renaissance
FR 452 - Studies in French Literature: Classicism through Enlightenment
FR 453 - Studies in French Literature: Romanticism to Present
FR 455 - French Drama
FR 456 - Seminar on Women Writers
FR 457 - African & Caribbean Literature of French Expression
FR 491 - Cultural and Language Workshop: French
GER 311 - German Culture
GER 320 - Advanced German Conversation
GER 351 - Survey of German Literature: Middle Ages through Romanticism
GER 352 - Survey of German Literature: Realism to Present
GER 353A,B,C - Survey of a German Genre
GER 402 - Business German
GER 411 - German Civilization
GER 452 - Faust
GER 453 - Seminar in German Literature
GER 491 - Cultural and Language Workshop: German
ITAL 220 - Intermediate Italian Conversation
ITAL 311 - Italian Culture and Civilization
SPAN 307 - Business Spanish
SPAN 311 - Contemporary Spain
SPAN 312 - Contemporary Spanish America
SPAN 320 - Advanced Spanish Conversation
SPAN 351 - Survey of Spanish Literature: Peninsular
SPAN 352 - Survey of Spanish-American Literature: Colonial
Period until the Present
SPAN 353 - Survey of Drama in the Spanish Language
SPAN 412A - Study of Hispanic Cultures in the U.S.

2018-2019 Undergraduate Catalog
Mass Communication
MC 201 - Mass Media in Society
MC 351 - Women in Mass Communications
MC 403 - Cultural Studies in Media
MC 452 - New Media and Technology
MC 453 - Transnational Media
MC 471 - Special Topics: International Advertising

Music
MUS 111 - Introduction to Music History/Literature
MUS 305 - Non-Western Music
MUS 357 - History of Western Music

Philosophy
PHIL 222 - Environmental Ethics
PHIL 226 - Philosophy and Film
PHIL 228 - Philosophy and Literature
PHIL 233 - Philosophy in Diverse Cultures
PHIL 234 - World Religions
PHIL 300 - Ancient Philosophy
PHIL 301 - Medieval Western Philosophy
PHIL 303 - Nineteenth Century Western Philosophy
PHIL 304 - Eighteenth Century Philosophy
PHIL 305 - Existentialism
PHIL 307 - Seventeenth Century Philosophy
PHIL 308 - Twentieth Century European Philosophy
PHIL 334 - World Religions
PHIL 335 - Islamic Thought
PHIL 336 - Christian Thought
PHIL 337 - American Indian Thought
PHIL 340 - Social & Political Philosophy
PHIL 347 - Philosophy of Race
PHIL 390 - Philosophy Here & Abroad
PHIL 415 - Philosophy of Language
PHIL 440 - Classical Political Theory
PHIL 441 - Modern Political Theory

Physics
PHYS 115 - Energy and the Environment

Political Science
POLS 344 - Urban Politics
POLS 350 - Western European Political Systems
POLS 351 - Eastern European Political Systems in Transition
POLS 352 - Politics of Development
POLS 354 - Women and Cross-National Politics
POLS 355 - Political Systems of Latin America
POLS 356 - Political Systems of Asia
POLS 371 - International Political Economy
POLS 443 - Politics of Poverty
POLS 472 - International Organizations
POLS 473 - United States Foreign Policy
POLS 479 - Topics in International Relations
POLS 497 - Environmental Law

Public Administration and Policy Analysis
PAPA 499 Seminar in Public Administration

Social Work
SOCW 301 Introduction to Social Welfare Policy
SOCW 390 - Diversity and Issues of Social and Economic Justice
SOCW 466 - Disaster Preparedness, Response, Recovery, and Mitigation
SOCW 454 - Disability in Society

Sociology
SOC 111 - Introduction to Sociology
SOC 300 Social Problems
SOC 304 - Race and Ethnic Relations
SIC 308 - Gender and Society
SOC 309 - Social Inequality
SOC 310 - The Sociological Study of Sexualities and Society
SOC 325 - Sociology of Community Action
SOC 335 - Urban Sociology
SOC 411 - Social Movements
SOC 390 Sociological Perspectives - Sociology of Immigration
SOC 444 - Gender, Ethnicity, and Class in the Workplace
SOC 470 - Sociology of Deviance
SOC 474 - Victims and Society

Theater and Dance
THEA 111 - The Dramatic Experience
THEA 141 - Film Analysis
THEA 241 - Classic Film
THEA 312 - Multicultural Theater in America
THEA 399 - Special Topics in Theatre: Study Abroad in London

Recommended IS Courses
IS 303 - 303-The Greatest Motion Pictures
IS 304 - World Mythology
IS 305 - Native American Studies
IS 324 - People and Cultures of the East
IS 326 - Modern Latin America
IS 331 - Mind and Language
IS 334 - Natural Resources: Issues & Conflicts
IS 336 - Global Problems and Human Survival
IS 340 - The Problem of War and Peace
IS 341 - The Immigrant in America
IS 350 - Women in Social Institutions
IS 352 - Women in the Ancient World
IS 353 - Representing Women’s Bodies 300-1500
IS 363 - Living Ecologically
IS 364 - The Atomic Era: Hitler, the Holocaust and the Bomb
IS 375 - Technology and Public Policy
IS 376 - Information Technology and Society
IS 377 - The Arts and the French Revolution
IS 385 - Risk and Risk Tradeoffs
IS 400 - History, Culture and Language of China
IS 401 - Business and Society
IS 403 - Global Health
Sample Curriculum for the Bachelor of Arts in International Studies

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<thead>
<tr>
<th>Year 1</th>
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<th>Year 3</th>
<th>Year 4</th>
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<tbody>
<tr>
<td><strong>ENG 101 - English Composition I</strong></td>
<td><strong>INTS 200 - Essentials of International Studies</strong></td>
<td><strong>IS Courses (one of the recommended)</strong></td>
<td><strong>INTS 499 - Senior Assignment</strong></td>
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<td><strong>Foreign Language 101 (FL, BICS)</strong></td>
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<td><strong>Breadth Fine &amp; Performing Arts (BFPA)</strong></td>
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<td><strong>INTS 499 - Senior Assignment</strong></td>
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A grade of C or better is required in ALL International Studies Courses.

*Course taken to meet this requirement may meet other General Education requirements. Please refer to the SIUE Undergraduate Catalog.

**INTS Majors - INTS Electives are selected from accompanying course list and will vary depending on the concentration being pursued.

Graduation Requirements

To graduate, students must:

- Receive a grade of C or better in ALL major coursework.
- Complete all requirements for the academic minor.
- Have a cumulative GPA of 2.0 or above in coursework completed at SIUE.
- File an Application for Graduation by the first day of the term in which the students plans to graduate.

Liberal Studies

[siue.edu/artsandsciences/liberalarts](siue.edu/artsandsciences/liberalarts)

Degree Programs

Bachelor of Liberal Studies

Program Description

The Bachelor of Liberal Studies degree program is designed as a flexible bachelor’s degree program, with a foundation of a broad-based education in liberal arts and sciences. The Bachelor of Liberal Studies emphasizes breadth of study rather than focus on a single discipline. The program is designed to meet the needs of students whose educational, employment, career, professional, and personal goals may not be fully met with a specific SIUE major, and for students who have integrative abilities to plan and develop a program appropriate to their
interests. This degree program is an alternative for students who are not well served by more rigid programs at SIUE, or who are seeking to complete a bachelor's degree in order to advance in their current place of employment or to fulfill personal goals such as degree completion. Students who plan to pursue graduate study should take courses in this program that can satisfy graduate admission requirements.

The Bachelor of Liberal Studies program is intended to enhance knowledge in a variety of areas. Extensive course alternatives, including some delivered online, available through this program allow students to adapt their curriculum to meet individual needs. The program is of special value to those who are seeking broadly based preparation or skills, those who already possess occupational skills and seek to enhance them, and to those who seek enrichment of their personal and professional lives. Part-time students are able to complete this degree through online, hybrid, and in the classroom course offerings. Some courses may be available evenings and on weekends.

**Degree Requirements Bachelor of Liberal Studies**

Each student must develop an educational contract that satisfies the following requirements:

A. Total number of hours required .......................... 120
B. General Education ........................................ 36
C. Liberal Studies Breadth Area Courses .................... 30
   1. Fine and Performing Arts (BFPA or FPA) .............. 6
   2. Humanities (BHUM or HUM) .............................. 6
   3. Information and Communication in Society (BICS) ...... 6
   4. Life Sciences and/or Physical Sciences
      (BLS/LS or BPS/PS) ...................................... 6
   5. Social Sciences (BSS or SS) ............................... 6

At least two courses from each of the five Liberal Studies Breadth areas, consisting of a minimum of 6 semester hours, above and beyond the general education requirements, must be completed with a grade of C or better.

D. Elective Hours .............................................. 51

Courses taken as elective hours should be designed around the student’s interest toward their career and educational goals. The elective hours must be completed with an average GPA of 2.0.

E. Senior Project .................................................. 3

The Senior Project (a capstone academic experience), serving as a component in senior assessment, affords the student an opportunity for self-reflection and guided independent study. The academic breadth of the liberal studies program orient students’ attention toward activities that might include, but are not limited to, a student practicum, internship, integrative research paper, presentation, or creative undertaking. A minimum grade of C in LIBS 400 is required to meet degree requirements.

A minimum of 42 hours of upper-level (300/400 level) coursework must be completed. The Interdisciplinary Studies course all SIUE students complete, as well as the Senior Project (LIBS 400), will count for 6 of the 42 hours of upper-level coursework.

A maximum of 24 hours, beyond general education requirements, may be used in any one discipline to meet degree requirements.

**Admission**

Students wishing to declare a major must satisfy the following requirements:

- Complete all Academic Development courses required by the University.
- Complete any required courses to address high school deficiencies.
- Achieve a cumulative grade point average of at least 2.0 in courses completed at SIUE.
- Meet with the program director to develop a plan of study/degree completion plan.

**Retention**

Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation and limited to a maximum of 12 hours of enrollment per term, but will be retained in the Bachelor of Liberal Studies major.

**Transfer**

Coursework completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet.

Transfer students are eligible to declare a major in the Bachelor of Liberal Studies upon being admitted to SIUE with a minimum transfer GPA of 2.0. For more information regarding transfer, please visit [siue.edu/transfer](http://siue.edu/transfer).
### Sample Curriculum for the Bachelor of Liberal Studies

#### Fall Semester

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<td>ACS 101 or 103 - Oral Expression</td>
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<td>QR 101, MATH 150 or Higher</td>
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### Graduation Requirements

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
- One of the following University Intellectual Areas:
  - At least eight (8) courses in the fine and performing arts and humanities, including, as part of those eight courses, a two (2) semester sequence of a foreign language
  - At least eight (8) courses in the sciences (life, physical, or social), including, as part of those eight courses, two (2) courses designated as labs (LAB)
- File an Application for Graduation by the first day of the term in which you plan to graduate.
Interdisciplinary Minors

Minor in African Studies
The African Studies Minor at Southern Illinois University Edwardsville is an interdisciplinary program aimed at developing students’ knowledge and understanding of African people, their land, history, culture and socio-economic institutions. It will provide the student with the opportunity to fully appreciate the global impacts of African humanities. Furthermore, an African Studies background will prepare students for informed global experience characterized by culturally diverse groups. Students desiring a minor in African Studies must complete 12 credit hours of required core courses and 6 credit hours of elective courses for a total of 18 credit hours. Courses not on this list may be acceptable if approved by the African Studies Coordinator. For additional information and advisement, call (618) 650-2097 or (618) 650-2091, or visit the Coordinator of African Studies in the Geography Department: 1401 Alumni Hall. Any of the listed courses already counted towards a student’s major cannot be counted again for this minor.

Requirements: 18 credit hours
Core Required Courses (12 credit hours):
ANTH 311 - Peoples and Cultures of the African Diaspora
GEOG 332 - Geography of Africa
HIST 352A - History of Africa: South of the Sahara, Prehistoric to Colonial Times
HIST 352B - History of Africa South of the Sahara, Colonial Times to Present

Elective Courses (6 credit hours):
ANTH 332 - Origins of Old World Cities and States
ANTH 334 - Origins of Agriculture
ART 469 - Primitive Art: Africa and Oceania
ENG 205 - Introduction to African American Texts
ENG 345 - African American Poetry and Folklore
FL 101 - Elementary Foreign Language: Yoruba 1
FL 102 - Elementary Foreign Language: Yoruba 2
FR 111E - The French – Speaking World
FR 457 - African and Caribbean Literature of French Expression
GEOG 201 - World Regions
GEOG 406 - Political Geography
GEOG 428 - Travel Study (African Field Trip)
HIST 130 - History of Black America
HIST 302 - Ancient Egypt
HIST 427 - History of Southern Africa
PHIL 233 - Philosophies and diverse Culture
POLS 440 - African American Politics
SOC 394 - Sociology of Black Family
WMST 352 - Women in the Ancient World

Minor in Asian Studies
Dunham Hall, Room 1036
siu.edu/artsandsciences/fll/asianstudies
The minor in Asian Studies is a multidisciplinary program sponsored by the College of Arts and Science and supported by the Departments of Anthropology, Foreign Languages and Literature, Geography, Historical Studies, Philosophy, Political Science and the School of Business.
The Asian Studies minor contributes to cultural enrichment through the study of the anthropology, geography, history, philosophy, political science, language, literature, and art of Asian societies.

Requirements: 18-20 credit hours
The minor in Asian Studies requires 18-20 credit hours of courses designated Asian Studies or courses approved by the Coordinator of Asian Studies. Credit is granted for only those courses in which grades of C or above are earned.

For more information, please visit the Asian Studies minor website, siu.edu/artsandsciences/fll/asianstudies, or contact the Coordinator of Asian Studies in Peck Hall 1224.

Requirements: 18-20 credit hours
6-8 hours from any two 100 and 200 level:
ARA 101 - Elementary Arabic I
ARA 102 - Elementary Arabic II
CHIN 101 - Elementary Chinese I
CHIN 102 - Elementary Chinese II
FL 111D - Introduction to Foreign Studies: Chinese
GEOG 111 - Intro to Geography: Freshman Seminar - Discover China
ARA 201 - Intermediate Arabic I
ARA 202 - Intermediate Arabic II
CHIN 201 - Intermediate Chinese I
CHIN 202 - Intermediate Chinese II
PHIL 233 - Philosophies and Diverse Cultures

9 hours from any 300-400 level courses:
CHIN 301 - Advanced Chinese I
CHIN 302 - Advanced Chinese II
HIST 305a - Comparative Asian Civilizations, Antiquity - 1500
HIST 305b - Comparative Asian Civilizations, 1500 - Present
ANTH 306 - People and Culture of Asia
IS 324 - Peoples and Cultures of the East
GEOG 331 - Geography of the Commonwealth of Independent States
GEOG 333 - Geography of Asia
FL345 - Literature in Translation - Chinese
HIST 354a - Islamic Mid East, 600-1400 CE
HIST 354b - Ottoman Empire, 1400-1918 CE
HIST 354c - 20th Century Middle East
Minor in Black Studies
The Black Studies minor is multi-disciplinary, with courses in nine departments:
Anthropology, Art, English, Historical Studies, Music, Political Science, Sociology, Speech Communication and Theater and Dance. Within the 18 hours required for this minor, students are required to take two specific courses: English 340 and History 130a or 130b. Minors may elect to take either HIST 130a or 130b (the other course may count as an elective).

The remaining 12 elective hours are selected from a listing of designated courses. Electives must include courses from three different departments and at least three courses related to the Black experience in America:

Required Courses
- ENG 340
- HIST 130a or 130b (the other may count toward an elective)

Designated Black Studies Electives
- ACS 210
- ANTH 311, 411
- ART 469a
- ENG 205, 341, 342
- HIST 352a,b, 442 (400 Topic: Film and African Experience)
- MUS 337, 338
- POLS 342
- SOC 304
- THEA 290, 312

The director may approve other courses not listed above. For more information about this minor or any of the courses, contact the Black Studies Office at (618) 650-5038, Peck Hall, room 3402. For advisement, contact the Black Studies advisor, Prince Wells, Dunham Hall, room 2107.

Minor in Classical Studies
The minor in classical studies is a multidisciplinary program sponsored by the College of Arts and Sciences and supported by the Departments of Art and Design, English Language and Literature, Foreign Languages and Literature, Historical Studies, and Philosophy.

The classical studies minor contributes to cultural enrichment through the study of Latin and Greek, and of the history, philosophy, literature, and art of the Greek and Roman civilizations; to language sensitivity by close
Attention to the grammatical and syntactical structure of Latin and/or Greek and by careful analysis of texts; to expansion of a general working vocabulary; and to knowledge of special vocabularies of such fields as medicine, law, theology, and foreign languages derived from Latin and Greek.

Requirements
The minor in classical studies requires 20 credit hours of courses designated classical studies. Of these, eight hours are required in Greek or in Latin. Credit is granted only for courses in which grades of C or above are earned.

Art 225a – History of World Art  
Art 447a,b – Ancient Art  
English 310 – Classical Mythology and Its Influence  
Foreign Languages and Literature 106 – Building Vocabulary Through Latin and Greek Word Elements  
Foreign Languages and Literature 401 – Comparative Latin and Greek Grammar  
Greek 101, 102 – Introduction to Greek  
Greek 201, 202 – Intermediate Greek  
Greek 499a-f – Readings in Ancient Greek  
History 302 – Ancient Egypt  
History 304 – History of Greece  
History 306a,b – History of Rome  
Latin 101, 102 – Introduction to Latin  
Latin 201, 202 – Intermediate Latin  
Latin 499a-f – Readings in Latin  
Philosophy 300 – Ancient Greek and Roman Philosophy  
Philosophy 440 – Classical Political Theory (Same as Political Science 484)

Because the following courses have variable content, they require advance approval by the Coordinator of the Classical Studies minor:

Art 470 – Topics in Art History  
English 478 – Studies in Women, Language, and Literature (Same as Women’s Studies 478)  
Foreign Languages and Literature 390- Readings  
History 300 – Special topics  
History 400 – Topics in History  
History 410 – Directed Readings  
Humanities 400 – Symposium in the Humanities  
Philosophy 490 – Special Problems  
Philosophy 495 – Independent Readings

Minor in Digital Humanities and Social Sciences
The minor in digital humanities and social sciences is a multi-disciplinary program administered by several departments. The digital humanities and social sciences encompasses the use of computing and computing-related technologies as a primary methodological focus of research within fields like history, philosophy, literature, linguistics, art, archaeology, sociology, and cultural anthropology. Scholars engaging in such practices use computers as more than just tools; rather, they use computing to reimagine how they might interpret and/or share their research. Students who participate in this minor will be given the opportunity to develop vocational skills that will greatly enhance the marketability of their humanities and/or social sciences degree while developing strong mentoring relationships with faculty. Students will work with members of the Interdisciplinary Research and Informatics Scholarship (IRIS) Center, facilitating cross-disciplinary and collaborative projects that involve applications, enhancements, and re-conceptualizations of information technologies in the humanities and social sciences.

Students enrolled in the minor will complete a minimum of 22 credit hours, to be divided between 7 credit hours of required courses, and 15 credit hours of elective courses.

Required Courses (7 credit hours)
CS 234  HUM 234L HUM 495

Elective Courses (15 credit hours)
Digital Humanities and Social Sciences minors should choose electives that are the most relevant to their majors or specializations and future plans.

Applied Communication Studies  
ACG 431  ACG 432

Computer Management and Informations Systems  
CMIS 108

Computer Science  
CS 140 English  CS 150  CS 240

English  
ENG 334  ENG 412  ENG 482  ENG 491

Geography  
GEOG 320  GEOG 402  GEOG 418  GEOG 420

History  
HIST 309

Interdisciplinary Studies  
IS 375  IS 376  IS 386

Mass Communication  
MC 202  MC 323  MC 327  MC 342  MC 440  
MC 441  MC 452  MC 471 Topic: Identity and Emerging Media

Additional courses relevant to the digital humanities and social sciences may be included in a student’s program of study as determined in consultation with the Director of the Digital Humanities and Social Sciences Program.

Departmental Special Topics & Independent/Special Readings courses offered in the student’s major may also be used as electives.
for the Digital Humanities and Social Sciences Minor when appropriately focused, as determined by the Director of the Digital Humanities and Social Science Program. Any of the listed courses already counted towards a student’s major cannot be counted again for this minor.

**Minor in Education Studies and Analysis**
The interdisciplinary minor in Education Studies and Analysis consists of a minimum of 21 credits. Six of these credits must be at the 400 level and another six must be at either the 300 or 400 level. At least 12 of the 21 credits must be completed at SIUE. A grade of C or better is required for a course to count toward the minor. **The minor does not prepare students for licensure as a teacher.**

**Course options for this minor include:**

- CIED 100 - Introduction to Education
- PSYC 111 - Foundations of Psychology
- SPE 100 - Introduction to People with Disabilities in Society and School
- EPFR 315 - Educational Psychology
- EPFR 320 - Foundations of Education in a Multicultural Society
- EPFR 451 - Gender and Education
- POLS 342 - Issues in America Public Policy
- IT 430 - Computer Based Publishing
- IT 481 - Computers in Education: Theory and Practicel
- IT 486 - Web Design for Instruction

**Core Requirements:**

- History 111a, 111b, or 111c
- One Year of a European Language: such as German, French, Spanish, Italian, Portuguese, Russian, Latin, Greek; additional languages are subject to approval by the directors as well.

**Requirements:** 18 credit hours at the 300 or 400 level that have a majority of the content related to Europe.

**Required Courses (complete at least one course in at least three different areas. The following are examples and not an exhaustive list.):**

- **Art**
- **English**
- **History**
- HIST 308A – Imperium and Christianity: Western Europe 300-1000CE
- HIST 308B – Medieval Conquests & Kingdoms 1000-1500
- HIST 320 – The Renaissance in Europe
- HIST 321 – Reformation Europe 1500-1648
- HIST 415 – Modern German History
- HIST 416 – WWII & Its Aftermath
- HIST 418 – WWII
- HIST 420A and B – European, Social Cultural, & Intellectual History: Renaissance-French Revolution
- HIST 422A,B, and C – Late Modern Europe
- HIST 424 – Topics in Eastern European History
- HIST 428 – Topics in European Women’s History
- **Drama**
- **Foreign Languages**
- FR 311 – Contemporary France
- GER 311 – German Culture
- SPAN 311 – Contemporary Spain
- **Political Science**
- POLS 350 – Western European Political Systems
- POLS 351 – Eastern European Political Systems

**Minor in European Studies/Civilization**
The European Studies/Civilization minor at Southern Illinois University Edwardsville is an interdisciplinary program drawn from subject areas in the social sciences and the humanities. The courses focus on Western and Eastern Europe. Students pursuing a European Studies minor must complete a minimum of 18 credits at the 300 level or above. At least one course each must be taken in three different departments, such as Art History, History, Political Science, English, or Foreign Languages. Courses not on this list may be acceptable if approved by the European Studies Coordinator of the European Studies minor in the Department of Historical Studies: 0213 Peck Hall.

Any of the listed courses already counted towards a student’s major cannot be counted again for this minor.

**Core Requirements:**

- History 111a, 111b, or 111c
- One Year of a European Language: such as German, French, Spanish, Italian, Portuguese, Russian, Latin, Greek; additional languages are subject to approval by the directors as well.

**Requirements:** 18 credit hours at the 300 or 400 level that have a majority of the content related to Europe.

**Required Courses (complete at least one course in at least three different areas. The following are examples and not an exhaustive list.):**

- **Art**
- **English**
- **History**
- HIST 308A – Imperium and Christianity: Western Europe 300-1000CE
- HIST 308B – Medieval Conquests & Kingdoms 1000-1500
- HIST 320 – The Renaissance in Europe
- HIST 321 – Reformation Europe 1500-1648
- HIST 415 – Modern German History
- HIST 416 – WWII & Its Aftermath
- HIST 418 – WWII
- HIST 420A and B – European, Social Cultural, & Intellectual History: Renaissance-French Revolution
- HIST 422A,B, and C – Late Modern Europe
- HIST 424 – Topics in Eastern European History
- HIST 428 – Topics in European Women’s History
- **Drama**
- **Foreign Languages**
- FR 311 – Contemporary France
- GER 311 – German Culture
- SPAN 311 – Contemporary Spain
- **Political Science**
- POLS 350 – Western European Political Systems
- POLS 351 – Eastern European Political Systems

**Minor in Forensic Sciences**
The Forensic Sciences minor is interdisciplinary, and exposes students to concepts and skills of social and natural science disciplines that relate to legal matters. The minor is ideal as a supplement to major programs focused on forensic applications or majors that incorporate forensic-related material, and for students considering careers in forensic analysis, law enforcement, or other areas of the criminal justice and legal systems.

Students must complete 7 courses (at least 21 credit hours) from the following list of approved courses. The 7 courses must include at least 1 course from each of the following areas: Biological Sciences, Chemistry, Anthropology, and Criminal Justice Studies. The remaining 3 courses can be approved courses in any of the four areas. Students must pass each of these courses with a “C” or better. Courses applied to
the minor may overlap with courses taken for major programs.

**Life Sciences: Biological Sciences**

Choose at least one course from the following:

- BIOL 140 - Human Biology
- BIOL 150 and 151 - General Biology I and General Biology II (count as 2 courses, but must be taken as a sequence)
- BIOL 220 - Genetics
- BIOL 240a and 240b - Human Anatomy and Physiology (count as 2 courses, but must be taken as a sequence)
- BIOL 250 - Bacteriology or BIOL 350 - Microbiology (only 1 course may count)
- BIOL 423 - Forensic Biology
- BIOL 440 - Functional Human Anatomy
- BIOL 463 - Entomology and Insect Collection

**Physical Sciences: Chemistry**

Choose only one course from the following:

- CHEM 120a and 124a - General, Organic, and Biological Chemistry and Laboratory (set counts as 1 course, taken concurrently)
- CHEM 120b and 124b - General, Organic, and Biological Chemistry and Laboratory (set counts as 1 course, taken concurrently)
- CHEM 121a and CHEM 125a - General Chemistry and Laboratory (set counts as 1 course, taken concurrently)
- CHEM 120n and CHEM 124n - General, Organic, and Biological Chemistry and Laboratory (set counts as 1 course, taken concurrently)
- CHEM 241a – Organic Chemistry I
- CHEM 241b and CHEM 245 – Organic Chemistry II and Laboratory (set counts as 1 course, taken concurrently)

**Social Sciences: Anthropology**

Choose at least one course from the following:

- ANTH 359 - Anthropology and Human Rights
- ANTH 369 - Introduction Forensic Anthropology
- ANTH 430 - Zooarchaeology
- ANTH 469 - Forensic Anthropology Applications
- ANTH 474 - Biological Anthropology Field School
- ANTH 475 - Archaeological Field School
- ANTH 474 or 475 for 3 or 6 credits. Regardless of credit hours, the field school counts as 1 course toward the minor.

**Social Sciences: Criminal Justice Studies**

Choose at least one course from the following:

- CJ 111 Introduction to Criminal Justice
- CJ 206 Criminal Law
- CJ 207 Criminal Procedure
- CJ 410 Judicial Process: The Criminal Court System

Note that some of these courses may require prerequisites. Some courses may not be offered every semester or every year. For more information regarding this minor, please contact the Department of Anthropology, Peck Hall, room 0212, 618-650-2744.

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**Minor in Latin American Studies**

The Latin American Studies Minor at Southern Illinois University Edwardsville is an interdisciplinary program drawn from the subject area of Spanish and courses in the Social Sciences and other Humanities. Students who pursue this minor complete a concentration of courses, which focus on Latin American culture, history, politics, the environment, economics and the arts. Students must complete 7 courses or a total of 21 credit hours. These courses include 3 required courses, 4 electives of which only 1 may come from the special electives category. There are no substitutions for the 3 required courses. A maximum of 6 credit hours or 2 courses overlap between the minor and the major is allowed.

This minor is especially appropriate for students planning to enter professions such as government service, international relations, international business, teaching or environmental sciences. It is also a good minor for those preparing themselves to become global citizens. For additional information and advisement visit the coordinator of the Latin American Studies Minor in Peck Hall, Room 2324.

**Requirements: 21 credit hours**

**Required Courses:**

- SPAN 312* - Contemporary Spanish America
- HIST 360a or 360b – History of Latin America
- ANTH 333 – Origins of New World Civilizations

Elective Courses (Select 12 hours from below. Only 3 credit hours are allowed from the list of courses under special electives. Electives are courses with Latin America as primary content. Special electives include courses with a substantial Latin American component and relevance to Latin America studies, but Latin American topics may not be the only or primary topic):

- SPAN 392 or 492** - Service Learning/Study Abroad Immersion Courses (course content varies depending on study location)
- SPAN 352 – Survey of Spanish-American Literature: Colonial Period until the Present
- SPAN 454 – Seminar in Spanish American Topic
- SPAN 471 – Spanish American Literature: Short Stories or Novel
- **All Spanish courses except SPAN 392 are taught in Spanish**
- **SPAN 492 is encouraged for language majors and minors and focuses on language learning.**
- SPAN 392 is a service learning, introductory language and culture studies course for the non-language major.
- HIST 360a – History of Latin America (prehistoric to 19th century)
- HIST 360b – History of Latin America (modern)
- HIST 460 – History of Mexico
- HIST 461 – History of Cuba
- HIST 462 – History of Brazil
- ANTH 333 – Origins of New World Civilization
- ART 468a, 468b – Primitive Art: The Americas

Special Electives
- MC 453 – Transnational Media
- ENSC 445 – Conservation Biogeography
- MUS 305 – Non-Western Music
Some Geography courses might qualify as special electives (e.g., human geography, world geography, Latin American geography, etc.), depending on the content.

Economics courses on international trade policies and international finance might qualify as special electives depending on content.

Courses in Latin American politics might qualify as special electives.

All study abroad courses in Latin America can be used for this minor. However only up to six hours can be accomplished through study abroad and must be approved by the coordinator of the Latin American Studies Program. An exception might be made if the student enrolls in a Latin American university for a semester as an exchange student and takes courses that are equivalent to those as outlined in the Latin American Studies Minor.

Minor in Native American Studies
The minor in Native American Studies is an interdisciplinary minor administered by the Department of Anthropology that will permit students to study Native Americans from a variety of scholarly perspectives. The understanding of Native Americans, past and present, has been hindered by alternating efforts to dehumanize and vilify indigenous Americans as “ignoble savages” vs. efforts to exalt them as “noble savages.” Both sides of this stereotype deny their active and critical roles in history and contemporary society. The Native American Studies minor raises awareness of central issues for Native Americans by critically examining their past, present, and future through diverse bodies of evidence such as material culture, oral histories, ethnohistory, and ethnography.

To complete the minor in Native American Studies, the student must receive C’s or better in ANTH 205: Introduction to Native American Studies, plus five of the following courses:

- ANTH 305 Peoples and Cultures of Native North America
- ANTH 312 Contemporary Native Americans
- ANTH 333 Origins of New World Cities and States
- ANTH 336 North American Prehistory
- ANTH 420 Museum Anthropology
- ANTH 432 Prehistory of Illinois
- ART 468a Native Arts of the Americas: Pre Columbian Art
- ART 468b Native Arts of the Americas: North America
- HIST 423a Trail of Tears: Native American History from Columbus to Removal
- HIST 423b Indian Wars, Progressives and Casinos: Native American History from Removal to Present
- HIST 430 American Colonial History
- HIST 451 Native Americans Encounter Lewis and Clark
- HIST 452 Native American Women
- IS 305 Native American Studies
- PHIL 337 American Indian Thought

Courses counted toward the Native American Studies minor must come from at least two different academic departments. No more than two courses may be counted toward both the Native American Studies minor and the student’s major. For more information regarding the Native American Studies minor, please contact the Department of Anthropology, Peck 0212, 618-650-2157 or email julzimm@siue.edu.

Minor in Peace and International Studies
The Peace and International Studies minor at Southern Illinois University Edwardsville is an interdisciplinary program devoted to research and teaching on the problems of war and peace, arms control and disarmament, collective violence, human rights, conflict resolution, inequalities and conflict, and informed citizenship in democracy. Students must complete 9 hours of required courses and 12 hours of elective courses for a total of 21 credit hours. This minor is especially appropriate for students planning to enter professions such as journalism, radio or television news casting, government service, teaching, law, international business, or international relations. It is also a good minor for people interested in preparing themselves for their roles as informed citizens in a democracy. The Coordinator may also approve other appropriate substitutions when courses are not available. For additional information and advisement, call (618) 650-3375, or visit the Coordinator of the Peace and International Studies Program in the Department of Political Science: 3214 Peck Hall.

Any of the listed courses already counted towards a student’s major cannot be counted again for this minor.

Requirements: 21 credit hours

Required Courses (9 hours):
- IS 340 – The Problem of War and Peace
- POLS 370 – Introduction to International Relations
- POLS 472 – International Organizations

The remaining 12 credit hours can be selected from the following list or additional courses in Anthropology, Economics, Geography, Historical Studies, Interdisciplinary Studies, Philosophy, Political Science, and Sociology & Criminal Justice with approval of Coordinator:
Elective Courses (select 12 hours from the list below):
- ECON 361 – Introduction to International Economics
- ECON 461 – International Trade Theory & Practice
- ECON 450 – International Finance
- GEOG 300 – Geography of World Population
- GEOG 301 – Economic Geography
- GEOG 450 – Globalizations
- HIST 354A – Islamic Middle East
- HIST 354B – History of the Middle East
- HIST 454 – Arab Israeli Conflict
- IS 336 – Global Problems & Human Survival
- IS 364 – The Atomic Era: European Refugees, American Science, & the Bomb
- IS 399 – Gender, Ethnicity, Development and Conflict
- MKTG 476 – International Marketing
- PHIL 340 – Social and Political Philosophy
- PHIL 441/POLS 485 – Modern Political Theory
- POLS 351 – Eastern European Political Systems in Transition
- POLS 385 – Introduction to Political Theory
- POLS 473 – U.S. Foreign Policy
- POLS 479 - Topics in International Relations
- SOC 200 – Cooperation & Conflict

Additional Information:
Special Topics & Independent/Special Readings courses in Anthropology, Economics, Geography, History, Humanities, Philosophy, Political Science, and Sociology also may be used as electives for the Peace Studies minor when appropriately focused, as determined by the Coordinator.

Minor in Pre-Law
This 21 hour minor allows exposure to a variety of skills identified as crucial to success in the study of law and a variety of legal career settings. Skills such as written and oral communication, critical thinking, problem solving, self-development, and citizenship are useful for the study of law. This minor allows students to structure a minor outside of their identified major that describes the rigors of a legal education. The Pre-Law Minor allows a student to select from courses from over 17 departments at SIUE that continue to improve those previously identified critical skills. Whether or not law school is the ultimate goal, this Minor can be useful to spark an interest in justice issues. A student may take no more than two courses from a specific department to fulfill the minor requirements, and must take a minimum of four courses at either 300 or 400 level at SIUE to successfully complete the minor.

Admission Requirements
Students must successfully complete (earn a grade of C or better) in ENG 102 and RA 101.

Retention Standards
A grade of C or better in all minor coursework is required.

Required Courses (Total 21 credit hours)
Law and Society (3 hours)
CJ 348/PHIL 348/POLS 392
Written (at least 1 required, and others may be taken as electives)
- ENG 201 Intermediate Composition
- ENG 332 Argument
- ENG 334 Scientific Writing
- ENG 490 Advanced Composition
- POLS 292 Legal Research, Analysis, and Writing
Oral Communication (at least 1 required and others may be taken as electives)
- ACS 200 Advanced Public Speaking
- ACS 204 Oral Communication
- ACS 300 Communication in Interviewing
- ACS 304 Conflict Management and Communication
Critical Thinking, Quantitative Reasoning, Logic (at least 1 required and others may be taken as electives)
- ECON 331 Labor Economics
- MATH 223 Logic and Mathematical Reasoning
- PHIL 212 Inductive Logic
- PSYC 206 Social Psychology
- PSYC 208 Cognitive Psychology
Interdisciplinary Courses (elective)
- IS 350/WMST 350: Women in Social Institutions
- IS courses as approved by the Pre-Law Coordinator
Legal Studies (two required, one from each section and others may be taken as electives)
Principles of Law (at least 1 required)
- CJ 206 Principles of Criminal Law
- CJ 207 Criminal Procedure
- POLS 390* The Judicial System or CJ 410 Judicial Process (cannot take both)
- POLS 495* Constitutional Law: Powers of Government
- POLS 496* Constitutional Law: Civil Rights and Civil Liberties

**Theory or Application of Law (at least 1 required and others may be taken as electives)**
- ACCT 340 Business Law for Accountants
- CJ 465 Theories of a Just Society
- SURV 310 Legal Aspects of Surveying
- CNST 411 Construction Contracts**
- ENSC 402/POLS497 Environmental Law
- HIST 201 US History and Constitution
- MC 401 Media Law & Policy
- PHIL 340 Social and Political Philosophy
- PHIL 343/POLS 391 Philosophy of Law
- PHIL 440/POLS 484 Classical Political Theory
- PHIL 441/POLS 485 Modern Political Theory
- PHIL 498/POLS 498 Legal Theory
- POLS 424* Administrative Law
- POLS 499* Public Law

**Elective Courses**

NOTE: Students may select one course from these areas, or may choose to take a course from the above-referenced Skills Courses to meet this Elective requirement.

**Critical Thinking, Quantitative Reasoning, Logic**
- ACCT 200 Introduction to Principles of Accounting
- ECON 111 Principles of Macroeconomics
- ECON 112 Principles of Microeconomics
- MS 250 Mathematical Methods for Business Analysis
- MS 251 Statistical Analysis for Business Decisions
- POLS 300* Introduction to Political Analysis
- STAT 107 Concepts of Statistics
- STAT 244 Statistics

**Applications / Extensions of Law**
- ANTH 312 Contemporary Native Americans
- ANTH 350 Applied Anthropology
- ANTH 359 Law, Politics and Human Rights in Cross-Cultural Perspective
- ANTH 366 Biology of Human Behavior
- ANTH 369 Introduction to Forensic Anthropology
- PHIL 222 Environmental Ethics
- PHIL 225 Contemporary Moral Issues
- PHIL 320 Ethics
- PHIL 321 Ethics in the Medical Community
- PSYC 320 Introduction to Industrial and Organizational Psychology
- PSYC 365 Group Dynamics and Individual Behavior
- PSYC 431 Psychopathology

**Written Communication**
- ENG 369 Grammatical Analysis
- ENG 405 Pragmatics
- ENG 409 Syntax
- ENG 416 Language and Society
- ENG 491 Technical and Business Writing

**Oral Communication**
- ACS 305 Listening
- ACS 430 Persuasion and Social Influence
- THEA 112a Core: Acting I
- THEA 210 Improvisation
- POLS 410* Legal Internship or CJ 398 Pre-Law Program Internship Independent Study (cannot take both for Pre-Law Interdisciplinary Minor credit)

* For those students accepted to the Pre-Law minor, Political Science may waive prerequisites. Please meet with the instructor of the appropriate course.

** Students may take CNST 341 Plans and Specifications without meeting the prerequisites only with the consent of the instructor.

Pre-Law Minor courses are listed in their respective Departmental Course Descriptions section.

For more information, please contact the Pre-Law Mentor.

The Pre-Law Minor web site is siue.edu/artsandsciences/prelawminor.
Minor in Religious Studies
Peck Hall 3212
siue.edu/artsandsciences/philosophy/religiousstudies/

The minor in religious studies is a multi-disciplinary program administered by the Department of Philosophy offering opportunities for the academic study of religion.

A minor in religious studies consists of 18 hours, 9 of which are required courses: PHIL 333 – Philosophy of Religion; PHIL 234 – World Religions; and one of the following: PHIL 336 – Christian Thought, PHIL 335 – Islamic Thought, PHIL 337- Native American Thought, or another 300-level course approved by the religious studies advisor that concerns a particular religious tradition. Students select elective courses from those approved by the advisor. A maximum of 3 credit hours counted toward a major in philosophy also may count toward the religious studies minor.

Elective courses for the minor include those listed below. Refer also to the list on the religious studies home page. Other courses may be approved, contingent on approval of the religious studies advisor. Departments including Historical Studies and Philosophy have special topics courses that could be appropriate.

ANTH 305 – Peoples and Cultures of Native North America
ANTH 308 – Religion and Culture
ANTH 311 – Culture of African-Americans
ANTH 312 – Contemporary African-Americans
ART 447 a,b – Ancient Art
ART 448 – Medieval Art
ART 449 – Italian Renaissance Art
ART 451 - Northern Renaissance Art
ART 468 a,b – Primitive Art: The Americas
ART 469 a,b – Africa and Oceania
ENG 306 – Introduction to the Bible
ENG 473 – Milton
FL 106 – Word Analysis: Latin and Greek Roots
FL 230 – Foundations of Celtic Culture
FL 330 – Celtic Culture: Mythology and Religion
HIST 302 – Ancient Egypt
HIST 304 – History of Greece
HIST 305 a,b – Comparative Asian Civilizations
HIST 306 a, b – History of Rome
HIST 308 a – Imperium and Christianity
HIST 308b – Medieval Conquests and Kingdoms, 1000-1500 C.E.
HIST 313 – Witchcraft, Magic and the Occult
HIST 342 – History of Religion in America
HIST 354a,b – History of the Middle East
HIST 403 – Ancient Mesopotamia
HIST 404 a,b – Topics in Medieval Social, Religious and Intellectual History
HIST 423 a,b – Native Americans Before 1492 to the Present
HIST 454 – History of The Arab-Israeli Conflict

IS 324 – Peoples and Cultures of the East
PHIL 231 – Philosophy, Science and Religion
PHIL 233 – Philosophies and Diverse Cultures
PHIL 301 – Medieval Western Philosophy
PHIL 320 – Ethics
PHIL 390 – Philosophy Here and Abroad
THEA 235 – Introduction to T’ai Chi Ch’uan

Admission Requirement
Students must successfully complete (earn a grade of C or above) RA 101 - Reasoning & Argumentation, or its equivalent, before they apply for a minor in religious studies. RA 101 or its equivalent does not count for credit toward the minor in religious studies.

Minor in Urban Studies
The Urban Studies minor at Southern Illinois University Edwardsville is an interdisciplinary program dedicated to the cultivation of knowledge and skills pertaining to urban issues at the local, national, and global scales. A minor in Urban Studies will help prepare students to be informed, thoughtful, and engaged participants in an urban world by providing a broad program of study encompassing the social, cultural, geographical, historical, political, economic, and planning dimensions of cities and urban life.

Students desiring a minor in Urban Studies must complete 6 credit hours of required core courses and at least 12 credit hours of elective courses for a minimum 18 credit hours. Courses taken to fulfill minor requirements must come from at least two different academic departments. Students must pass all courses with a grade of “C” or better. Courses already counted toward a student’s major cannot be counted again for this minor unless approved by both the student’s major program advisor and the Urban Studies Coordinator. Courses not listed among the electives may be acceptable if approved by the Urban Studies Coordinator. For additional information, please contact the Urban Studies Coordinator at urbanstudies@siue.edu.

Core Required Courses (6 credit hours):
GEOG 303 - Introduction to Urban Geography
Any one of the following (remaining courses may be taken to fulfill elective requirements):
GEOG 403 - Advanced Urban Geography
POLS 344 - Urban Politics
SOC 335 - Urban Sociology
Elective Course Requirements (minimum 12 credit hours):
- ANTH 332 - Origins of Old World Cities and States
- ANTH 333 - Origins of New World Cities and States
- ANTH 411 - Urban Anthropology
- CE 376 - Transportation
- CJ 366 - Race and Class in Criminal Justice
- CNST 415 - Land Development
- ECON 327 - Social Economics: Issues in Income, Employment and Social Policy
- ECON 445 - Economics of the Public Sector: State and Local
- EPFR 320 - Foundations of Education in a Multicultural Society
- GEOG 402 - Cultural Landscape
- GEOG 403 - Advanced Urban Geography
- HIST 350A - Making of Modern America, 1900-1945
- HIST 350B - Making of Modern America, 1945-Present
- HIST 442 - The Black Urban Experience
- HIST 470 - Public History
- PAPA 320 - Introduction to Public Administration
- PAPA 342 - Issues in American Public Policy
- PAPA 344 - Urban Politics
- SOGW 303 - Human Behavior in the Social Environment II
- SOGW 390 - Diversity and Issues of Social and Economic Justice
- SOC 304 - Race and Ethnic Relations
- SOC 335 - Urban Sociology
- SURV 264 - Surveying Fundamentals

Because the following courses have variable content, they require advance approval by the Coordinator of the Urban Studies Minor:
- ANTH 350 - Applied Anthropology
- CJ 390 - Special Topics in Criminal Justice
- GEOG 451 - Topics in Human Geography
- HIST 400 - Topics in History
- PAPA 499 - Seminar in Public Administration

Departmental Courses (15 hours)
Select any of the following cross-listed courses from at least three different departments, with a maximum of 6 hours from your major. Courses are credited to a department in accordance with the faculty member’s departmental assignment.
- ACS/WMST 331
- ART/WMST 473
- CJ/WMST 367
- EPFR/WMST 451
- ENG/WMST 341 and 478
- FR/WMST 456
- HED/WMST 300
- HIST/WMST 452, 440, 445, 452 and 455
- IS/WMST 350, 352, and 353
- MC/WMST 351
- PHIL/WMST 344, 345 and 346
- POLS/WMST 354, 441
- PSYC/WMST 305
- SOC/WMST 308, 310, 391, 394 and 444
- WMST 390, 490, 495, 499

Women’s Studies courses, including those cross-listed with departments, are listed in the Course Descriptions section.

For more information, please contact the office, Peck Hall, room 3407, (618) 650-5060. The Women’s Studies Web site is siue.edu/artsandsciences/womensstudies/.

Minor in Women’s Studies
Women’s Studies is a growing interdisciplinary field that emphasizes gender perspectives and contributions of women. Women’s experiences and voices have often been omitted from traditional curricula and textbooks. Furthermore, when women are discussed in these realms, they are assumed to be one homogenous group without differences in race/ethnicity, class or sexuality. Women’s Studies courses focus on issues relating to gender as well as the many untold stories of women and all their differences with regard to work, love, culture, and family.

Since its beginning in the United States in the early 1970s, Women’s Studies has generated much scholarly inquiry into oppression: patriarchy, racism, homophobia and class. Women’s Studies classes, however, are not only interested in uncovering power relations; many also wish to show students avenues for change.

Required Courses (3 hours):
- WMST 200
College of Arts and Sciences

A College of Arts and Sciences education is a journey of intellectual transformation in which students explore diversity of ideas, experiences, and people. The College provides excellent degree programs for its majors, minors, and post-graduate students and offers an outstanding liberal arts and sciences foundation for undergraduate students across the University. The College of Arts and Sciences is committed to the traditional academic pursuits of instruction, scholarship, and public service as a means of realizing, in close cooperation with other units, the mission and goals of Southern Illinois University Edwardsville. Consistent with the mission of the university, the college assigns first priority to excellence in undergraduate education. To this end, the college fosters the development of the following characteristics and capabilities of its graduates:

**Communication:** Organize and express ideas clearly and appropriately; master written and oral communication; appreciate alternative forms of expression, including art, dance, music and literature; distinguish between the medium and the message; listen, observe, interpret, and understand others.

**Critical Thinking:** Employ independent, objective, and rigorous reasoning; identify and integrate the elements of a task or problem; seek, organize, assimilate, and synthesize information; maintain a healthy skepticism; recognize the value of creativity, the limits of reason, and the legitimacy of intuition.

**Problem Framing and Solving:** Determine and appreciate the complexity of problems, go beyond conventional assumptions, understand parts of systems as well as the whole, recognize patterns and be able to generalize them, search and test solutions using analytical and intuitive skills, evaluate and monitor outcomes, work effectively and creatively in diverse groups.

**Knowledge:** Master the basic facts, concepts, and literature of the arts and sciences; acquire knowledge of diverse ethical traditions and contemporary issues; develop competence in the use of technology, instrumentation, and research methods; develop expertise in a major; understand the evolution and trends of that major; acquire knowledge of career opportunities.

**Integration and Application of Knowledge:** Understand and value the interconnectedness of knowledge; learn creatively from practice and experience; apply knowledge in innovative ways; appreciate and promote multidisciplinary and culturally diverse perspectives; foster connections where knowledge serves as a bridge to new levels of understanding and insight.

**Self Development:** Assess personal strengths, weaknesses, and potential; develop individual goals and persevere to achieve them; build self confidence and motivation; identify and respect diverse backgrounds and viewpoints; manage change effectively; recognize and tolerate ambiguity; develop a well-considered personal ethic that includes assuming responsibility for actions, decisions, and their results.

**Citizenship:** Participate in the local, national, and global community; be sensitive to the welfare of others; appreciate democratic values; acquire a sense of personal and collective responsibility for the social and natural environment.

**Lifelong Learning:** Maintain a sense of curiosity, appreciate and master the process of learning, recognize that learning is a means of fulfillment and success in one’s personal and professional life.

The College of Arts and Sciences includes the departments of Anthropology, Applied Communication Studies, Art and Design, Biological Sciences, Chemistry, English Language and Literature, Foreign Languages and Literature, Environmental Sciences, Geography, Historical Studies, Mass Communications, Mathematics and Statistics, Music, Philosophy, Physics, Political Science, Public Administration and Policy Analysis, Social Work, Sociology and Criminal Justice Studies, and Theater and Dance.


Each department provides one or more programs of specialization, which are described in detail in the following pages. Undergraduate programs are designed to provide a strong basic foundation in the chosen field and to serve as a preparation for many different careers and professional activities, as well as for graduate study. Departments within the College offer a variety of master’s degree programs. The College is responsible for a large majority of the general education program; undergraduate courses in the College provide a general liberal arts education appropriate to all students. Faculty are active in basic and applied research and in professional service to the University and to the
community. We invite you to learn more about the College and the academic opportunities we provide at [http://www.siue.edu/artsandsciences/](http://www.siue.edu/artsandsciences/).

**Anthropology**

Peck Hall, Room 0212  
[siue.edu/artsandsciences/anthropology/](http://www.siue.edu/artsandsciences/anthropology/)

**Professors**  
Rehg, Jennifer (Chair), Ph.D., 2003,  
University of Illinois at Urbana-Champaign  
Zimmermann, Julie, Ph.D., 2000,  
New York University

**Associate Professors**  
Lutz, Nancy, Ph.D., 1986,  
University of California, Berkeley  
Willmott, Cory, Ph.D., 2001,  
McMaster University

**Assistant Professors**  
Balasundaram, Sasikumar, Ph.D., 2012,  
University of South Carolina  
Ragsdale, Corey, Ph.D., 2015,  
University of New Mexico

**Program Description**

Anthropologists study human populations all over the world, in the present and the past. Anthropology develops knowledge of and respect for the biological and cultural diversity of humankind through the combined fields of archaeology, biological anthropology, cultural anthropology, and linguistic anthropology.

The program emphasizes real-world applications of anthropology, with expertise in cultural resources and heritage, community engagement, sustainability, and globalization issues. Special faculty interests include bioarchaeology and forensic anthropology, ethnohistory, political anthropology, immigrant and refugee issues, religion, language, material culture, Illinois prehistory, zooarchaeology, primate behavior and ecology. Distinctive features of the program include opportunities for supervised research and fieldwork, internships, training in museum work in conjunction with our Ethnology Museum Laboratory, and involvement in community projects. The Anthropology Lab provides resources for preparation and analysis of archaeological artifacts and skeletal remains. The department offers local field courses in archaeology and bioarchaeology. The Anthropology Department administers interdisciplinary minors in Forensic Sciences, and Native American Studies, and provides courses that apply to other interdisciplinary minors.

**Career Opportunities**

Students with a Bachelor’s degree in Anthropology find employment in secondary education, private business and industry, cultural resources management, contract archaeology, environmental studies, museums, health and human services, nongovernmental organizations, and legal and government agencies. Anthropology majors may pursue graduate degrees at both the masters and doctoral level; such degrees lead to careers in university-level teaching, basic and applied research, or museum affiliated work. Due to the diversity of subjects and methods in anthropology, students frequently combine anthropology with other disciplines such as history, sociology, geography, earth science, biology, psychology, medicine, law, and the arts. These interdisciplinary approaches enable students to understand and address issues in local and international communities in order to expand their opportunities for rewarding careers.

**Degree Programs**

Bachelor of Arts, Anthropology  
Bachelor of Science, Anthropology

The bachelor of arts and bachelor of science degrees are based on a common core set of courses. In addition, the bachelor of arts degree requires 8 hours of a foreign language, and the bachelor of science degree requires 6 hours in field school courses: Anthropology 473, 474, or 475. Field school courses are offered only during the Summer Session.

Students seeking a bachelor of arts or bachelor of science degree in Anthropology must either select a minor in another discipline or design an interdisciplinary concentration. A concentration consists of 18 credits in one or more disciplines complementary to a subfield of anthropology. The courses will be selected by the student in consultation with an anthropology faculty mentor. Anthropology courses can be included in the concentration, but the same courses cannot be counted toward both the anthropology major requirements and the concentration. A second major serves the same purpose in lieu of a minor or concentration.
**Program Overview and General Department Information**

Students wishing to apply for a major or minor are encouraged to consult with the Anthropology Department. Students may declare their major or minor through the Office of Academic Counseling and Advising or College of Arts and Sciences Advising. Pre-registration advisement with an Anthropology faculty mentor is required for all declared majors.

**Admission**

Students wishing to declare a major must satisfy the following requirements:

- Complete all Academic Development courses required by the University.
- Complete any required courses to address high school deficiencies.

**Retention**

Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation, returned to undeclared status and limited to a maximum of 12 hours of enrollment per term.

**Transfer**

Coursework completed at regionally accredited institutions will be evaluated upon admission.

Results of transfer credit evaluations are available to students through CougarNet. For more information regarding transfer, please visit [siue.edu/transfer](http://siue.edu/transfer).

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ANTH 111a</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 111b</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 300</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 301</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 325</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 360a</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 360b</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 490a</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 490b</td>
<td>Anthropology in Practice</td>
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**Archaeology and Biological Anthropology – Select one course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 332</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 333</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 334</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 335</td>
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<tr>
<td>ANTH 336</td>
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<tr>
<td>ANTH 365</td>
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<tr>
<td>ANTH 366</td>
<td>Anthropology in Practice</td>
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<tr>
<td>ANTH 367</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 369</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 430</td>
<td>Anthropology in Practice</td>
</tr>
<tr>
<td>ANTH 432</td>
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</tr>
<tr>
<td>ANTH 469</td>
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<td>ANTH 470</td>
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**Cultural and Linguistic Anthropology – Select one course**

<table>
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<tbody>
<tr>
<td>ANTH 303</td>
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<tr>
<td>ANTH 305</td>
<td>Anthropology in Practice</td>
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<tr>
<td>ANTH 308</td>
<td>Anthropology in Practice</td>
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<tr>
<td>ANTH 312</td>
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<tr>
<td>ANTH 350</td>
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<tr>
<td>ANTH 340</td>
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<td>ANTH 359</td>
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<td>ANTH 408</td>
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<td>ANTH 420</td>
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<td>ANTH 435</td>
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<tr>
<td>ANTH 470</td>
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</table>

**Anthropology Electives – 9 hours**

An additional 9 hours of electives in Anthropology are required. These can be courses of any level or field. Internships and individualized studies can count toward these electives.

**General Education Requirements for the Major**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum.

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**Sample Curriculum for the Bachelor of Arts in Anthropology**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Year</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>1</td>
<td>ANTH 111B</td>
<td>Human Culture and Communication (BSS, EGC, EUSC)</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>ENG 101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foreign Language 101 (BICS)</td>
<td></td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>QR 101, MATH 150 or Higher</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>ANTH Elective (biological or archaeological)</td>
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<tr>
<td></td>
<td></td>
<td>Breadth Physical Science (BPS)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Breadth Humanities (BHUM)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective/Minor (FPA or HUM)</td>
<td></td>
<td>3</td>
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<td></td>
<td>Elective/Minor</td>
<td></td>
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<tr>
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<td>Total</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>ANTH 300</td>
<td>Ethnographic Method and Theory</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>ANTH 301</td>
<td>Anthropology in Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Interdisciplinary Studies (IS)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective/Minor</td>
<td></td>
<td>3</td>
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<tr>
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<td>3</td>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Year</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tr>
<td>Spring</td>
<td>1</td>
<td>ANTH 111A</td>
<td>Human Ancestry and Adaptation (BLS)</td>
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<tr>
<td></td>
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<td>ENG 102</td>
<td>Composition</td>
<td>3</td>
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<td>Foreign Language 102</td>
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<td>RA 101</td>
<td>Reasoning &amp; Argumentation</td>
<td>3</td>
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<td></td>
<td></td>
<td>ACS 101 or 103 - Oral Expression</td>
<td></td>
<td>3</td>
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<td>Total</td>
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<tr>
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<td>2</td>
<td>ANTH Elective (cultural or linguistic) (FPA or HUM)</td>
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<td>Elective/Minor (FPA or HUM)</td>
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<td>3</td>
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<td>Experience - Health (EH)</td>
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<tr>
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<td>Elective/Minor</td>
<td></td>
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</tr>
<tr>
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<td>Total</td>
<td></td>
<td>15</td>
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<tr>
<td></td>
<td>3</td>
<td>ANTH 360a</td>
<td>Biological Method &amp; Theory</td>
<td>3</td>
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<tr>
<td></td>
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<td>ANTH 360b</td>
<td>Biological Lab (EL)</td>
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<tr>
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<td></td>
<td>ANTH 325</td>
<td>Archaeological Method &amp; Theory</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Elective/Minor</td>
<td></td>
<td>3</td>
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<tr>
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<td>16</td>
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Sample Curriculum for the Bachelor of Arts in Anthropology cont.

Year 4
ANTH 490a&b – Senior Assignment ........................................... 3
Elective/Minor (FPA or HUM) .................................................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 12
d

Year 4
ANTH Elective/Internship/Independent Research ......................... 3
ANTH Elective ................................................................ 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 15

d

Sample Curriculum for the Bachelor of Science in Anthropology

Fall Semester
Year 1
ANTH 111B - Human Culture and Communication (BSS, EGC, EUSC) ................ 3
ENG 101 – Composition .......................................................... 3
ACS 101 or 103-Oral Expression .............................................. 3
Breadth Humanities (BHUM) ............................................... 3
Experience - Health (EH) ..................................................... 3
Total ................................................................. 15

Year 2
Breadth Fine & Performing Arts (BFPA) ...................................... 3
Breadth Info & Communication in Society (BICS) ...................... 3
ANTH Elective (biological or archaeological) ............................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 15

Year 3
ANTH 300 – Ethnographic Method and Theory ................................ 3
ANTH 301 – Anthropology in Practice (BSS) ............................. 3
Interdisciplinary Studies (IS) ............................................... 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 15

Year 4
ANTH 490a&b – Senior Assignment ........................................... 3
Elective/Minor ................................................................ 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 12

Spring Semester
Year 1
ANTH 111A - Human Ancestry and Adaptation (BLS) .................. 3
ENG 102 – Composition .......................................................... 3
QR 101, MATH 150 or Higher .............................................. 3
Breadth Physical Science (BPS) ............................................... 3
Total ................................................................. 15

Year 2
ANTH Elective (cultural or linguistic) .......................................... 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 15

Summer (Year 2 or 3)
ANTH 473 or 474 or 475 – Field School ...................................... 6
Total .......................................................................... 6

Year 3
ANTH 325 – Archaeological Method & Theory ................................ 3
ANTH 360a – Biological Method & Theory .................................. 3
ANTH 360b – Biological Lab .................................................. 1
ANTH 325 – Archaeological Method & Theory ................. 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 3
Total ................................................................. 13

Year 4
ANTH Elective/Internship/Independent Research ........................ 3
ANTH Elective ................................................................ 3
Elective/Minor ................................................................. 3
Elective/Minor ................................................................. 2
Elective/Minor ................................................................. 3
Total ................................................................. 14

Minor Requirements

A minor in anthropology consists of 18 hours. Twelve of these hours must be in 300/400 level courses. Students are required to take an introductory anthropology course (111a or 111b). The remaining hours consist of anthropology electives. Minors are encouraged to consult with the Anthropology Department on course selection.

Graduation Requirements

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
The study of communication involves the development of theories, research tools, and practices to analyze, explain, and improve human interaction. Departmental courses focus on two-person interaction, small-group decision making, communication patterns in organizations and other complex systems, communication management and public relations, and speaker-audience interaction in public speaking and mediated communication settings.

Our undergraduate program is devised to allow students to acquire knowledge and skills in various areas of communication and to put to work their expertise through hands-on activities, service learning, and internships. Courses in our programs are taught by talented faculty who ground their outstanding instructional abilities in research and deep connections to relevant communication industries.

The Department of Applied Communication Studies encourages students to work closely with faculty in the classroom, research projects, and informal interactions as well as to seek mentoring from a faculty member in the department. Applied Communication Studies majors and minors receive their formal academic advisement from the College of Arts and Sciences Undergraduate Advising. For more information, please contact the Department of Applied Communication Studies at (618) 650-3090.

Career Opportunities
Nationally and internationally, employers increasingly recognize the need for communication capabilities across workplace settings. As a result, job opportunities for Applied Communication Studies graduates are prevalent in business and industry, government agencies, educational systems, non-profit organizations, and community-based resource centers. Examples of careers departmental graduates have pursued are: administration and management, training and consulting; strategic communication, public relations, marketing, and sales; human relations and employee assistance programs; teaching; and government service. Career opportunities in communication are expanding for women and minorities.

The department is committed to helping undergraduate majors identify jobs and work environments for which they are best suited. The department also helps them select
internships, minors, and elective courses to complement the Applied Communication Studies major. To focus their academic programs most effectively, students also are required to select and follow the academic track most appropriate for their individual career goals.

**Applied Communication Studies Tracks**

**Public Relations Track**

Students in the public relations track will study under a model program, designed to meet and exceed national guidelines for undergraduate public relations education described in “Public Relations Education for the 21st Century: A Port of Entry,” sponsored by the Commission on Public Relations Education. This track emphasizes the written, oral, visual, and technological communication applications which lead to building mutually beneficial relationships between organizations and their target publics in for-profit, nonprofit, and agency contexts. Elements of the program are designed to keep entry-level students in touch with upper-division students, and past graduates in touch with all students. In addition, students will experience the “paired course” concept, an idea that helps students integrate materials across their sequence of study. And finally, students may join SIUE’s award-winning chapter of the Public Relations Student Society of America, which is affiliated with the national professional association, Public Relations Society of America.

**Corporate and Organizational Communication Track**

Students who choose the corporate and organizational communication track focus on communication within the context of businesses and other organizations. Effective communication in organizations is necessary both for the attainment of organizational goals and for individual productivity and satisfaction. This track is designed for those who will work in organizational settings and who want to become more effective in their interactions with others for a more successful and fulfilling work life. This knowledge is especially important now that the world of work is undergoing rapid change. In addition to learning, understanding, and applying organizational concepts and research, students will also develop important organizational skills such as conflict management, decision making, goal setting, and team building. Students completing this track will be prepared for careers in a wide variety of organizational settings and roles (sales, management, human resources, and training), as well as for graduate study in communication or business.

**Interpersonal Communication Track**

This track provides students with a thorough theoretical and practical understanding of the ways in which verbal and nonverbal communication are used in creating, defining, negotiating, and modifying relationships. This track also increases students’ awareness both of the many types of, and the myriad influences on, interpersonal relationships. A thorough, systematic examination of relevant theory and research regarding interpersonal communication is provided. Students in the interpersonal communication track are generally attracted to it for the solid preparation it provides for graduate school. Students who select this track as pre-graduate study preparation will find themselves with an excellent foundation upon which to begin careers in the academic community, such as professor, researcher, or administrator. Those choosing this track will also be well prepared for positions in the business sector such as recruiters and trainers.

**Degree Programs**

Bachelor of Arts, Applied Communication Studies

Bachelor of Science, Applied Communication Studies

**Program Overview and General Department Information**

**Admission**

To be admitted to the bachelor of science or bachelor of arts program, students must:

- Complete ACS 101, Public Speaking (or equivalent) with a grade of C or better
- Complete ACS 103, Interpersonal Communication Skills (or equivalent) with a grade of C or better
- Attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

**Retention**

Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation, returned to undeclared status and limited to a maximum of 12 hours of enrollment per term.
Transfer
Students who choose to take one or more classes at another institution and apply that credit to an SIUE degree should obtain prior approval for the course from the appropriate academic advisor to make sure the course is acceptable for program credit.

- Applied Communication Studies Majors: a maximum of 18 semester hours of transferred Applied Communication Studies course work could be applied to 36 hour program
- Applied Communication Studies Minors: a maximum of 9 semester hours of transferred Applied Communication Studies courses work could be applied to 18 hour program

General Education Requirements
University general education requirements are outlined in the General Education section of this catalog.

Major Requirements
The sample curriculum outline highlights Applied Communication Studies courses only and assumes General Education courses have been completed prior to the student’s declaration of a major. All Applied Communication Studies majors are required to choose a minor course of study and complete ACS 200, 329, 330, 409 or 424 or 415 (depending on track), in addition to the track requirements identified below:

Track Option: Public Relations Track
Required Courses: ACS 213, 312, 313, 315, 413, 414, plus two elective courses
Recommended electives: ACS 201, 203, 204, 210, 300, 303, 304, 305, 311, 331, 370, 403, 416, 421, 430, 431, 432, 433, 434, 491

Track Option: Corporate and Organizational Communication Track
Required Courses: ACS 203, 300, 303, 304, 403, plus three elective courses
Recommended electives: ACS 201, 204, 210, 213, 305, 311, 323, 305, 311, 323, 331, 370, 416, 421, 430, 431, 432, 433, 434, 491

Track Option: Interpersonal Communication Track
Required Courses: ACS 201, 323, 421, 422, 434, plus three elective courses
Recommended electives: ACS 203, 204, 210, 300, 303, 304, 305, 311, 331, 370, 416, 423, 430, 433

Notes
*ACS 309, ACS 419, ACS 491: no more than 3 credit hours, per course, may be counted toward 36-hour major.

Sample Curriculum for the Bachelor of Science in Applied Communication Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Year 1</td>
</tr>
<tr>
<td>ACS 101 – Public Speaking</td>
<td>ACS 103 – Interpersonal Communication (EUSC/BICS)</td>
</tr>
<tr>
<td>ENG 101 – Composition</td>
<td>ENG 102 – Composition</td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation</td>
<td>OR 101, MATH 150 or Higher</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
<td>Elective</td>
</tr>
<tr>
<td>Breadth Humanities (BHUM)</td>
<td>Breadth Life Science (BLS)</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
<tr>
<td>Year 2</td>
<td>Year 2</td>
</tr>
<tr>
<td>ACS 200 (BICS), ACS 201 (BSS), ACS 203, or ACS 213 (BICS)</td>
<td>ACS 200 (BICS), ACS 201 (BSS), ACS 203, or ACS 213 (BICS)</td>
</tr>
<tr>
<td>ACS Track Requirement (or recommended ACS elective)</td>
<td>ACS Track Requirement (or recommended ACS elective)</td>
</tr>
<tr>
<td>Physical Science (BPS)</td>
<td>Breadth Life, Physical or Social Science with a lab (EL)</td>
</tr>
<tr>
<td>Health Experience (EH)</td>
<td>Breath Life, Physical, Social Science or Experience Global</td>
</tr>
<tr>
<td>Breadth Life Physical or Social Science with a lab (EL)</td>
<td>Cultures</td>
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<tr>
<td>Total</td>
<td>Elective</td>
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</tr>
<tr>
<td>Year 3</td>
<td>Year 3</td>
</tr>
<tr>
<td>ACS 329 (BSS) or ACS 330 (BSS)</td>
<td>ACS 329 (BSS) or ACS 330 (BSS)</td>
</tr>
<tr>
<td>ACS Track Requirement (or recommended ACS elective)</td>
<td>ACS Track Requirement (or recommended ACS elective)</td>
</tr>
<tr>
<td>ACS Track Requirement (or recommended ACS elective)</td>
<td>ACS Track Requirement (or recommended ACS elective)</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS)</td>
<td>Minor</td>
</tr>
<tr>
<td>Minor</td>
<td>Minor</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
</tbody>
</table>
Capstone Course (Senior Project): Students in the Public Relations track must complete ACS 415*; Students in the Corporate and Organizational Communication track must complete ACS 409**; and students in the Interpersonal Communication track must complete ACS 424.

Applied Communication Studies Tracks and Applied Communication Studies Recommended Electives (choose one track) to total 24 hours:
- Public Relations track (see required and recommended electives above)
- Corporate and Organizational Communication track (see required and recommended electives above)
- Interpersonal Communication track (see required and recommended electives above)

Students wishing to obtain a Bachelor of Arts degree must take two semesters of the same foreign language as well as 4 additional courses in fine and performing arts or humanities

Minor in Applied Communication Studies

Admission
To be accepted as a minor in Applied Communication Studies a student must attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

Requirements
Applied Communication Studies Minor
- complete 18 semester hours of Applied Communication Studies courses (not including courses restricted to majors only) as follows:
  - ACS 103
  - ACS 203
  - ACS 213
  - Any two courses at the 300 level
- Any one course at the 400 level
- have a GPA of 2.0 or above for coursework completed at SIUE
- earn at least 9 semester hours at SIUE

Note
Students should consult with their CAS academic advisor (618) 650-5525 or the Director of Undergraduate Studies in the Department of Applied Communication Studies, (618) 650-3090, if help is needed in identifying courses that best meet the students’ academic and career interests.

Speech Communication Education Minor
- available to Language Arts Teacher Certification (K-12) students only (must apply through the Department of English Language and Literature)
- complete 18 semester hours of applied communication studies courses identified below:
  - ACS 103
  - ACS 261
  - ACS 461
  - One course at the 200 level from the following: ACS 200, 201, 204, 210
  - Any two courses at the 300 or 400 level from the following: ACS 304, 305, 311, 419, 421, 423, 430, 433, 434.
- at least 9 semester hours must be earned at SIUE
- courses may also be used to fulfill general education requirements
- must maintain a minimum major and minor GPA of 3.0
- must pass the Department of English Language and Literature screening to be
eligible for student teaching
- must gain advisement for professional education courses through the School Education Student Services

Graduation Requirements for Bachelor of Science in Applied Communication Studies
- complete all general education and specific program/track requirements
- complete all requirements for academic minor
- ACS majors must receive a C grade or higher in ACS 329 and ACS 330
- Students in the Public Relations track must receive a C grade or higher in ACS 213 and ACS 313
- have a GPA of 2.0 or above for coursework completed at SIUE
- file an Application for Graduation by the first day of the term in which you plan to graduate

Graduation Requirements for Bachelor of Arts in Applied Communication Studies
8 hours of the same foreign language as well as 4 courses in fine and performing arts in lieu of 4 life, physical or social science courses. Refer to the General Education section of the catalog for specific requirements.

Art and Design
Art and Design Building, #1101
siue.edu/artsandsciences/art

Distinguished Research Professor
Dresang, Paul, M.F.A., 1975,
University of Minnesota

Professors
Barrow, Jane, M.F.A., 1990,
Indiana University Bloomington
Cooper, Ivy, Ph.D., 1997,
University of Pittsburgh
Dimick, Brigham, M.F.A., 1991,
Indiana University Bloomington
Duhigg, Thad, M.F.A., 1989,
Syracuse University
Klorer, Patricia, Ph.D.,
The Union Institute
Strand, Laura, M.F.A. 1993,
University of Kansas

Associate Professors
Brown, Steve, M.F.A., 1994,
University of Delaware
DenHouter, John, M.F.A., 1994,
Eastern Michigan University
Goebl-Parker, E., M.S., 2004,
Washington University
Nwacha, Barbara, (Chair), M.F.A., 1998,
The University of Iowa
Park, Sangsook, Ed.D., 2004,
University of Illinois
Poole, Katherine, Ph.D., 2007,
Rutgers University
Robb, Megan, M.A., 2002,
The George Washington University

Assistant Professors
Howard, Aimee, M.F.A., 2009,
University of Kansas
Page, Joseph, M.F.A., 2008,
Alfred University
Whetstone, Rodrick, M.F.A., 2012,
The University of Iowa

Program Description
The Department of Art and Design offers three undergraduate degrees: a bachelor of arts degree in art with options in art history or studio art; a bachelor of fine arts degree in art and design; and a bachelor of science degree in art education.

Undergraduate offerings in art include introductory and specialized courses in drawing, painting, printmaking, sculpture, ceramics, textiles, glassworking, graphic design, photography/digital arts, jewelry and metals, museology, art historical studies, and professional preparation for the future art teacher at the elementary or secondary level.

To augment the academic program, the Department of Art and Design has a comprehensive program in the visual arts that includes a Visiting Artist Program and an Exhibition Program. These programs provide an opportunity both for art majors and non-majors to become acquainted with well-known artists and art works brought to the University.

Students who have graduated from accredited high schools may be admitted to the bachelor of arts, bachelor of science, or bachelor of fine arts programs. A grade point average of 2.5 (on a 4.0 point scale) is required for acceptance into and graduation from the programs.

Admission to the bachelor of fine arts program is by portfolio examination with applications accepted each fall and spring semesters. In
addition, bachelor of fine arts candidates must have a 3.0 grade point average in studio courses for admission to and graduation from the program. A grade of C or above is required in art classes used as prerequisites for other art classes.

Career Opportunities
Students majoring in art find career opportunities in a wide variety of professional fields, including teaching in public and private schools; recreational, cultural, and craft programs in city, state and federal government agencies; design, advertising, and commercial art agencies; museums, galleries and other cultural institutions. The undergraduate programs in art also prepare students for graduate study in their fields of specialization; graduates have been able to compete very successfully for career and graduate education opportunities.

Degree Programs
Bachelor of Arts, Art
Specialization required in one of the following:
- Art History
- Art Studio

Bachelor of Science, Art
Specialization required in one of the following:
- Art Education, Professional Educator Licensure (K-12)
- Art Studio

Bachelor of Fine Arts, Art and Design

Program Overview and General Department Information

Admission
To be admitted to the Bachelor of Science or Bachelor of Arts program, students must:
- Complete all Academic Development courses required by the University.
- Complete any courses required to address high school deficiencies.
- Attain a cumulative grade point average of at least 2.5 (on a 4.0 scale).

To be admitted to the Bachelor of Fine Arts program, students must:
- Currently be working towards the Bachelor of Science or Bachelor of Art
- Complete at least one semester at SIUE
- Attain a cumulative grade point average of at least 2.5 (on a 4.0 scale) and a 3.0 average in studio courses.
- Submit application with 20 digital images from artwork completed at SIUE, artist statement, unofficial transcript.

Deadline for submission: November 1st or April 1st

Retention
- Maintain a cumulative grade point average of 2.0 (BA or BS) or 2.5 (BFA candidate)
- Attain C or above in all art classes used as prerequisites for other art classes.
- Students failing to meet above standards may be conditionally retained. Failure to meet the conditions established by the department will result in termination from the major and ineligibility to enroll in upper division Art and Design courses without written departmental permission.

Transfer
Transfer students should contact the department for a review of credentials and placement at least 30 days before the beginning of the term for which entry is desired.

Requirements for students seeking Professional Educator Licensure
Admission to a teacher education program is a joint decision by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to the teacher education program, as soon as they know they would like to pursue this option. Scheduling required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing the Professional Educator License.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, so the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website http://
www.siue.edu/education/, and by making an appointment with a School of Education Health and Human Behavior advisor.

**General Education Requirements for the Major**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

**Major Requirements**

**Art Education**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 112a, b, c, d</td>
<td>12</td>
</tr>
<tr>
<td>ART 202 (ART 202e required)</td>
<td>15</td>
</tr>
<tr>
<td>ART 225a, b, Art History Elective</td>
<td>12</td>
</tr>
<tr>
<td>Art Studio 300/400 level</td>
<td>15</td>
</tr>
<tr>
<td>Art 289, 300b, 364, 365</td>
<td>12</td>
</tr>
<tr>
<td>Art Electives</td>
<td>6</td>
</tr>
<tr>
<td>CIED 100, CIED 323, EPFR 315, EPFR 320, SPE 400</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>95</td>
</tr>
</tbody>
</table>

**Art Studio (BA or BS)**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 112a, b, c, d</td>
<td>12</td>
</tr>
<tr>
<td>ART 202 - Intro Studios</td>
<td>18</td>
</tr>
<tr>
<td>ART 202e (required)</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 a, c, g (1 required) - 3-D Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 b, d, f (1 required) - 2-D Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 i or h (1 required) - Digital Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 (electives)</td>
<td>6</td>
</tr>
<tr>
<td>ART 225a, b, Art History Elective</td>
<td>12</td>
</tr>
<tr>
<td>Art Studio 300/400 level (major area)</td>
<td>12</td>
</tr>
<tr>
<td>Art Studio 300/400 level (non-major area)</td>
<td>9</td>
</tr>
<tr>
<td>ART 405</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
</tr>
</tbody>
</table>

**B.F.A.: Art and Design**

After completion of the first two years of the Bachelor of Science: Art Education or the Bachelor of Art: Art Studio, a student may apply for admission to the Bachelor of Fine Arts degree (see admission requirements for B.F.A.)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 112a, b, c, d</td>
<td>12</td>
</tr>
<tr>
<td>ART 202 Intro Studio</td>
<td>18</td>
</tr>
<tr>
<td>ART 202e (required)</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 a, c, g (1 required) - 3-D Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 b, d, f (1 required) - 2-D Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 i or h (1 required) - Digital Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 202 (electives)</td>
<td>6</td>
</tr>
<tr>
<td>ART 225a, b, Art History Electives</td>
<td>12</td>
</tr>
<tr>
<td>Art Studio 300/400 level (major area)</td>
<td>18-30</td>
</tr>
<tr>
<td>ART 405</td>
<td>3</td>
</tr>
<tr>
<td>ART 441</td>
<td>3</td>
</tr>
<tr>
<td>ART 499 - Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>57</td>
</tr>
</tbody>
</table>

**Art History**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 225a, b</td>
<td>6</td>
</tr>
<tr>
<td>400-Level Art History courses</td>
<td>39</td>
</tr>
<tr>
<td>Choose from the following (at least two must be non-Western topics, two must be pre-1700 (pre-modern) topics, and two must be post-1700 (modern) topics):</td>
<td></td>
</tr>
<tr>
<td>ART 424, ART 447, ART 449, ART 467, ART 468a, b, ART 469a, b, ART 470 (repeatable to 9 hours), ART 471 (repeatable to 9 hours), ART 472 (repeatable to 9 hours), ART 473, ART 474, ART 475, ART 476, ART 480, ART 481, ART 482, ART 483 (repeatable to 9 hours)</td>
<td></td>
</tr>
<tr>
<td>Studio Art Courses</td>
<td>6</td>
</tr>
<tr>
<td>Art 485: Methods and Research in Art History</td>
<td>3</td>
</tr>
<tr>
<td>Art 487: Senior Capstone in Art History</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>57</td>
</tr>
</tbody>
</table>

Students are urged to elect philosophy 360 and anthropology 305, courses in non-visual arts and history, additional language study, and art studio.

**Sample Curriculum for the Bachelor of Science, Art – Education, Professional Educator Licensure (K-12)**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Year</th>
<th>Course Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 112a – Foundation Studio: Drawing I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101 – English Composition I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breadth Life, Physical or Social Science with a lab (EL)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities (BHUM/EUSC)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 202 – Introduction to Studio (FPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 202 – Introduction to Studio (FPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 202 – Introduction to Studio (FPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 225A – History of World Art (BFPA, EGC)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breadth Life, Physical or Social Science with a lab (EL)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation or PHIL 212</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 112c – Foundation Studio: Drawing II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 112d – Foundation Studio: Visual Organization II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 102 – English Composition II</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Info &amp; Communication in Society (BICS)</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Breadth Life Science (BLS)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breadth Life, Physical or Breadth Social Science/Health Experience (EH)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
<td></td>
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</tr>
<tr>
<td><strong>Year 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 202 – Introduction to Studio (FPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 202e – Introduction to Studio (FPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 300-400-level Studio</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 225B – History of World Art (BFPA)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR 101, MATH 150 or Higher</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIED 100 – Introduction to Education</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18</td>
<td></td>
<td></td>
</tr>
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Sample Curriculum for the Bachelor of Science, Art – Education (K-12, Teacher Licensure) cont.

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breadth Physical Science (BPS)</td>
<td>Breadth Social Science (BSS)</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS)</td>
<td>ART 300-400-level Art Studio</td>
</tr>
<tr>
<td>ART 300-400-Level Art Studio</td>
<td>ART 300-400-level Art Studio</td>
</tr>
<tr>
<td>Art History Elective</td>
<td>Breadth Life, Physical or Social Science</td>
</tr>
<tr>
<td>Art 289 – Practicum in Art Education</td>
<td>ART 364 – Art Education</td>
</tr>
<tr>
<td>EPFR 315 – Education Psychology</td>
<td>ART 300b – Art Education</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
</tbody>
</table>

*Students must select 15 hours from ART 202a, b, c, d, e, f, g, h or i. Speak with an art advisor about specific state licensure requirements.

Sample Curriculum for the Bachelor of Arts, Art – Studio

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Year 1</td>
</tr>
<tr>
<td>ART 112a – Foundation Studio: Drawing I</td>
<td>ART 112c – Foundation Studio: Drawing II</td>
</tr>
<tr>
<td>ENG 101 – English Composition I</td>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>Breadth Humanities (BHUM)</td>
<td>Breadth Life Science (BLS) with a lab (EL)</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>Breadth Social Science (BSS, EUSC)</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 202e – Introduction to Studio</td>
<td>ART 202 a,c,g – Introduction to Studio - 3-D Art</td>
</tr>
<tr>
<td>ART 201 or h – Introduction to Studio - Digital Art</td>
<td>ART 202 – Introduction to Studio (student choice)</td>
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<tr>
<td>ART 202 b,d,f – Introduction to Studio - 2-D Art</td>
<td>ART 300-400 level Non-Major Studio</td>
</tr>
<tr>
<td>ART 225A – History of World Art (BFPA)</td>
<td>ART 225b – History of World Art (BFPA, EGC)</td>
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<tr>
<td>Breadth Physical Science (BPS)</td>
<td>RA 101 - Reasoning &amp; Argumentation or PHIL 212</td>
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<tr>
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<td>Health Experience (EH)</td>
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A grade of C or higher is required for those classes used as pre-requisites for another, i.e. ART 112a, b, c, d; Art 225a, b and any 200-level course for required major or advanced electives in art.

Southern Illinois University Edwardsville
Sample Curriculum for the Bachelor of Fine Arts, Art and Design

### Fall Semester

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<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1</td>
<td>ART 112a – Foundation Studio: Drawing I</td>
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<td></td>
<td>ART 112b – Foundation Studio: Visual Organization I</td>
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<tr>
<td>2</td>
<td>ART 202e – Introduction to Studio</td>
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<td>ART 202 i or h – Introduction to Studio - Digital Art</td>
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<td></td>
<td>ART 225A – History of World Art (BFPA)</td>
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<td></td>
<td>Breadth Social Science (BSS) or Experience US</td>
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<td></td>
<td>Cultures (EUSC)</td>
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A grade of C or higher is required for those classes used as pre-requisites for another, i.e. ART 112a, b, c, d; Art 225a, b and any 200-level course for required major or advanced electives in art.

### Spring Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
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<tbody>
<tr>
<td>1</td>
<td>ART 112c – Foundation Studio: Drawing II</td>
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<td>ART 112d – Foundation Studio: Visual Organization II</td>
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<td>ENG 102 – English Composition II</td>
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<td></td>
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<td>ART 202 b, d, f – Introduction to Studio - 2-D Art</td>
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<td>ART 202 a, c, g – Introduction to Studio - 3-D Art</td>
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<td>ART 225b – History of World Art (BFPA, EGC)</td>
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<td>ART 300/400 Level Major Studio</td>
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<td>ART 405 – Seminar</td>
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### Sample Curriculum for the Bachelor of Fine Arts, Art and Design cont.

<table>
<thead>
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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>Foreign Language 101 (BICS)</td>
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<td>Breadth Humanities (BHUM)</td>
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<tr>
<td>ART 202 – Introduction to Studio (student choice)</td>
<td>ART 300-400 level Major Studio</td>
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### Sample Curriculum for the Bachelor of Arts, Art – Art History

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<tbody>
<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>ART 225a – History of World Art (BFPA/EGC)</td>
<td>ART 225b – History of World Art</td>
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<td>ENG 101 – English Composition I</td>
<td>ENG 102 – English Composition II</td>
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<td>Art History 400 level (FPA)</td>
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<tr>
<td>Breadth Physical Science (BPS) with a lab (EL)</td>
<td>Breadth Life Science (BLS)</td>
</tr>
<tr>
<td>Experience United States Culture (EUSC)</td>
<td>Health Experience (EH)</td>
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<td>QR 101, MATH 150 or Higher</td>
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<td>ART 485 Art History Methods &amp; Research</td>
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<td>Minor/Elective</td>
<td>ART 487 Senior Capstone in Art History</td>
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<td>Minor/Elective</td>
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Minor/Elective must consist of 29 hours. It is possible to pursue a double major or have two minors that utilize the hours allowed for elective/minor within this major.
Graduation Requirements
■ Complete all general education and specific program requirements.
■ Complete Senior Assignment
  ■ Art-Studio: ART 405 & a final Digital Portfolio
  ■ Art & Design: ART 405 & ART 499
■ File an Application for Graduation by the first day of the term in which you plan to graduate.
■ B.F.A.: A minimum of one year must be completed as a B.F.A. before graduation.

Minor – Art History Requirements (18 hours)
ART 225a,b
12 hours from the following:
ART 424, Art 447a,b, ART 448, ART 449, ART 451, ART 468a,b, ART 469a,b, ART 470 (repeatable to 9 hours), ART 473, ART 475, ART 476, ART 480, ART 481a,b, ART 483

Minor – Art Studio Requirements (18 hours)
ART 112a (required)
Choose one for appropriate track
ART 112b (required for 2-D/Digital track)
ART 112d (required for 3-D track)
Tracks
2-D (Choose two of the following courses - 6 hours)
ART 202b
ART 202d
ART 202f
3-D (Choose two of the following courses - 6 hours)
ART 202a
ART 202c
ART 202g
Digital (Choose two of the following courses - 6 hours)
ART 202h
ART 202i
Art Studio 300/400 level (major area - 6 hours)

Biological Sciences
Science Lab West, Room 1155
siue.edu/BIOLOGY

Professors
Esselman, Elizabeth J., Ph.D., 1996,
The Ohio State University
Essner, Jr., Richard L., Ph.D., 2003,
Ohio University
Krajniak, Kevin G., Ph.D., 1990,
University of Florida
Lin, Zhi-Qing, Ph.D., 1996,
McGill University
Minchin, Peter R., Ph.D., 1984,
University of Tasmania
Retzlaff, William A., Ph.D., 1987,
Clemson University
Schulz, Kurt E., Ph.D., 1991,
University of Wisconsin-Madison
Theodorakis, Christopher W., Ph.D., 1994,
University of Tennessee

Associate Professors
AbuSharbain, Elaine M., Ph.D., 1992,
Southern Illinois University Carbondale
Barry, Kelly J., Ph.D., 1992,
University of Hawaii
Brunkow, Paul E., Ph.D., 1996,
Arizona State University
Fowler, Thomas J., Ph.D., 1993,
The Ohio State University
Jennings, David, Ph.D., 1997,
University of Colorado
Kohn, Luci Ann P., Ph.D., 1989,
University of Wisconsin-Madison
Liebl, Faith L.W., Ph.D., 2005,
University of Illinois at Chicago
Luesse, Darron R., Ph.D., 2006,
Indiana University, Bloomington
McCracken, Vance J., Ph.D., 2001,
University of Illinois at Urbana-Champaign
Williams, Jason, Ph.D., 2005,
Miami University

Assistant Professors
DiSalvo, Susanne, Ph.D., 2012,
Brown University
Hubert, Amy, Ph.D., 2009,
University of Wisconsin-Madison

Visiting Assistant Professor
Lee, Danielle N., Ph.D., 2010,
University of Missouri-St. Louis
Program Description

Biology includes the whole domain of living things: patterns of cellular structure; the underlying biochemical pathways; anatomy and function of whole organisms; the mathematical predictability and molecular basis of inheritance; the flow of energy and matter through living systems; the regulation and interaction of basic life processes; the universality of adaptation; and the interdependence of the biosphere. Like all sciences, biology is both cumulative and open ended in its discoveries. It teaches the wonders of life, the excitement of discovery, and the challenge of the unknown.

Students who are curious about living things, how they function, and how they relate to the environment may want to study biology.

The Department of Biological Sciences operates tissue culture facilities, microscopy facilities, warm and cold rooms, computer laboratories and a greenhouse. Preparative ultracentrifuges, spectrophotometers, confocal microscope and gel electrophoresis equipment are available to facilitate research in enzymes, proteins, and genetic engineering. A comprehensive collection of instruments is available to conduct research in plant physiological ecology: oxygen electrode system with fluorescence probe, infrared gas analyzer for measurement of CO2 uptake, pressure chamber and thermocouple psychrometer for measuring water potential, and data loggers with a variety of sensors to measure environmental variables. The department maintains substantial collections of insects, fish, amphibians, reptiles, birds, mammals, and plants. The 2,660-acre campus, with its wooded areas, lakes, and ponds, provides easily accessible habitats for ecological and other field work.

The Department of Biological Sciences offers five specializations or options for a bachelor of arts or science degree in biological sciences. These are

Ecology, Evolution, and Environment

Recent rapid advances in technology combined with a growing awareness of the impact of human activity on the environment have resulted in the development of broad opportunities in environmental biology. Ecology is the study of interactions between living organisms and their environment. Evolution provides the theoretical basis that binds all of biology together. These areas combine to help us understand human impacts on natural systems. These areas have both academic and practical importance because they stimulate intellectual curiosity about the natural world and provide a scientific basis for the solution of modern environmental problems.

The ecology, evolution, and environment specialization within the biological sciences bachelor’s degree program prepares students for positions that require the application of ecological principles to the solution of environmental problems. The specialization also prepares students for advanced study in all areas of biology, including wildlife ecology and forestry. Students selecting this specialization will take a planned sequence of courses that includes basic biological sciences, ecology, evolution, and environmental science. This study may include laboratory and field research. A variety of elective courses is available to allow students to pursue special interests such as plant or animal ecology, environmental management, and evolutionary biology at either the organismal or cellular level. Students should consult their advisor to devise a course schedule to fit their specific talents and interests.

Genetics and Cellular Biology

Genetic engineering and cellular biology are rapidly expanding fields in biology. Genetic engineering is a defined method for producing genetic changes in a variety of organisms in the laboratory. Cellular biology is a field that studies all aspects of gene regulation, protein trafficking, cell physiology, and apoptosis. A large number of industrial companies and many research laboratories use genetic engineering and cell biology techniques in their work. Job opportunities are numerous and growing in number. Students with training in genetic engineering and cellular biology may be employed in diverse laboratory settings including plant breeding, insecticide development, and the production of pharmaceuticals.

Integrative Biology

The curriculum in this program is designed to provide a firm basis in biological sciences for students with a variety of goals. It is an attractive major for students planning to enter graduate school or for students pursuing careers in biological research or in applied work in areas such as agriculture, conservation, and wildlife management. Students in this program may elect to concentrate in such specific disciplines as botany, microbiology, physiology, cellular and molecular biology, genetics, and zoology by completing their electives through
courses in these areas. Some disciplines require chemistry courses beyond the minimum requirements.

Medical Sciences

The medical sciences specialization, a pre-health professions curriculum, will prepare students for entry into medical, dental, pharmacy, veterinary, optometry, osteopathy, chiropractic, and podiatry schools, as well as into many other allied health programs.

Students considering a health-related profession should demonstrate above-average ability in the natural sciences. Students also should exhibit traits commonly associated with health practitioners, e.g., persistence, curiosity, good judgment, initiative, emotional maturity, attention to details, and good interpersonal skills. Pre-dental students should also have or develop good manual skills and the ability to make acute judgments on space and shapes.

The biological sciences program described below is designed to provide students with a rigorous course of study that will satisfy the entrance requirements of professional schools, as well as to award students a bachelor of science degree either at the end of the four-year program, or in the case of early admission, at the end of the first year of professional school (see below). Students requesting acceptance for the medical science specialization will be advised by a biology/medical science advisor with regard to their academic curriculum.

Because professional schools adhere rigidly to their entrance requirements and because there is strict course sequencing for the completion of these requirements, students in this specialization should seek advisement early to ensure satisfactory progress.

The health professions advisors maintain a centralized evaluation service to aid students seeking entry into professional schools during the application process. The advisor is available in the College of Arts and Sciences Advisement Office to help and advise such students regarding application procedures.

Medical Technology

This degree specialization is designed for students who wish to become medical technologists certified by the American Society of Clinical Pathologists. Medical technologists should have a firm understanding of the theory behind the diagnostic tests they perform in the clinical laboratory. Their responsibilities encompass all clinical laboratory disciplines, such as clinical chemistry, urinalysis, hematology, serology, immunology, blood and organ banking, microbiology, parasitology, and nuclear medicine. As self-motivated, inquisitive scientists, medical technologists contribute to the development of new methods and laboratory instrumentation that aid physicians in preventing and curing disease. Most medical technologists are employed in hospitals, but private laboratories, physicians’ offices, government agencies, industrial and pharmaceutical laboratories, and university research programs offer growing opportunities for employment advancements.

The American Medical Association’s Council on Medical Education, the American Society of Clinical Pathologists, and the American Society of Medical Technology collaborate in determining minimum standards for educational programs for medical technologists.

The first three years of the program take place on the SIUE campus. During this time, students fulfill general education requirements and master fundamental knowledge and skills in biology, chemistry, physics, and mathematics. The fourth year of clinical/professional study takes place in a clinical laboratory setting at one of the University’s affiliated hospital schools of medical technology. Acceptance to this last year of study is on a competitive basis and is not guaranteed to individual students in the program. Students enroll at SIUE for 36 hours of credit during the clinical year. Credits are earned through courses in blood banking, chemistry, coagulation, hematology, microbiology, mycology, parasitology, serology, urinalysis and other subjects as specified in the agreement with each hospital affiliate.

Students in this program should seek advisement early in their academic careers from the biology/medical technology advisor because there is strict course sequencing for the completion of requirements. Careful scheduling is essential to completion in three years of the on-campus academic portion of the program.

Career Opportunities

Many careers are available for people with basic or advanced training in biology. There are opportunities in botany, dentistry, ecology,
education, environmental biology, fisheries biology, genetic engineering, horticulture, immunology, medicine, medical technology, microbiology, molecular biology, parasitology, physiology, wildlife management, forestry, and zoology. Technical and supervisory positions are available in federal, state, industrial and university laboratories. Environment and health-related occupations almost always require sound basic training in biology. Most students entering schools of medicine, dentistry, optometry, osteopathy, veterinary science, chiropractic and podiatry are biology majors. Basic training in biology is essential for careers in allied health sciences, including nutrition, pharmacy, occupational therapy, and physical therapy.

Degree Programs
Bachelor of Science, Biological Sciences
Specialization required in one of the following:
- Ecology/Evolution/Environment
- Genetics and Cellular Biology
- Integrative Biology
- Medical Science
- Medical Technology
Professional Educator Licensure (9-12) option
Bachelor of Arts, Biological Sciences
Specialization required in one of the following:
- Ecology/Evolution/Environment
- Genetics and Cellular Biology
- Integrative Biology
- Medical Science
- Medical Technology

Admission
High school students who plan to major in one of the degree programs in biological sciences should complete at least three years of college preparatory mathematics (two years of algebra and one year of geometry), and one year each of chemistry and biology before entering the University. A fourth year of college preparatory mathematics (to include trigonometry) is strongly recommended.

Admission to a degree program in biological sciences requires an application for a major and acceptance by the department. Once admitted, students are formally affiliated with the department and assigned an academic advisor. Advisement is mandatory. Majors are permitted to register each term only after their Course Request Forms have been approved by an academic advisor.

Students are encouraged to select their major field of study early in their academic careers to ensure orderly progress toward meeting degree requirements. To be admitted, students already enrolled in the University must have a minimum grade point average of 2.0 in completed science and mathematics courses, as well as a cumulative grade point average of 2.0 or higher in all courses taken at SIUE. Transfer students should have a 2.0 grade point average in science and mathematics courses taken at other colleges and universities.

Retention
Students should show satisfactory academic progress to be retained in a degree program. Students may be dropped from the biology major for any of the following reasons:
- grade point average of 1.0 or below in any term
- cumulative grade point average of lower than 2.0 in the major at any time
- any combination of withdrawal, incomplete, and failing grades in 50 percent or more of the courses for which the student is registered during two successive terms
- any combination of three withdrawal, incomplete, or failing grades in any single required course in Biology.

For readmission, students must meet the same admission requirements as students entering the program for the first time.

Transfer
Coursework completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information regarding transfer, please visit www.siue.edu/transfer.

Advisement
Students interested in majoring in one of the options in biology are advised to apply for a major as early as possible and to consult with a CAS advisor without delay. Students must complete all required academic development and high school deficiency courses before declaring a biology major. Students are informed in writing of advisement procedures and assigned an academic advisor at the time of declaration. Students are required by the University to consult an advisor prior to registration each term. Enrollment in biology major courses above 151 requires approval of a biology advisor. Biology - particularly
specializations in medical sciences, teacher licensure (9-12), and medical technology – requires strict course sequencing if requirements are to be completed in four years. An appointment for advisement may be made by calling the CAS Advising Office at (618) 650-5525. The advisor will be pleased to help students prepare a program of study in biological sciences in any one of the six specializations.

**Academic Standards**

All students pursuing a major in the biological sciences must adhere to the following academic standards in addition to those listed above.

- A grade of C or better is required in each of the major core courses (150, 151, 220) before proceeding to the next core course.
- No more than 4 hours of D may be counted in the 38 hours required for a major in the biological sciences.
- The GPA in the major is based on all courses attempted in the major.
- Any student who receives four grades of D, F, or WF in biology courses numbered 220 or lower is no longer permitted to enroll in biology classes for credit toward a biology major.

**Residency and Other Requirements**

Majors in biological sciences must complete at least 18 of the required hours in biology at SIUE. At least two 400-level courses must be included in the 18 hours. Students may take as many as 8 hours of 491 and 493 together as electives, but these will not fulfill the 400-level course requirements. For graduation, all specializations require 26 hours in biology beyond the introductory level. Credit for a biology major will be awarded for courses cross-listed with the biology curriculum. One year of a foreign language is required for the bachelor of arts degree in all specializations. Students seeking a minor in biological sciences must complete at least 9 of the 19 hours of biology at SIUE and obtain a GPA of 2.0 or better in all biology courses attempted at SIUE. All biology options require Chemistry 121.

**Requirements for students seeking Professional Educator Licensure**

Admission to a professional education courses is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website [http://www.siue.edu/education/](http://www.siue.edu/education/), and by making an appointment with a School of Education Health and Human Behavior advisor.

**Degree Requirements, Biological Sciences**

**Core Requirements**

BIOL 150  BIOL 151  BIOL 220

**Chemistry Requirements**

CHEM 121 a,b  CHEM 125 a,b  CHEM 241 a,b  CHEM 245

Complete one of the following Specializations:

**Ecology, Evolution and Environment**

BIOL 327  BIOL 365  BIOL 492
BIOL 492m or 497

**Biology EEE Electives (12-14 hours)**

BIOL 330  BIOL 380  BIOL 422a  BIOL 423
BIOL 434  BIOL 435  BIOL 462  BIOL 463
BIOL 464  BIOL 465  BIOL 466  BIOL 467
BIOL 468  BIOL 469  BIOL 470  BIOL 471
BIOL 472  BIOL 473  BIOL 474  BIOL 480
BIOL 483  BIOL 485  BIOL 486  BIOL 487
BIOL 488  BIOL 489

Two 400-level courses required, and three courses must have labs among which must be at least one field course and at least one diversity course

One course from Molecular/Cell/Physiology electives:

BIOL 319  BIOL 335  BIOL 337  BIOL 350
BIOL 415  BIOL 416  BIOL 421  BIOL 422
BIOL 451  BIOL 467  BIOL 472
### Mathematics/Physics Requirements
- MATH 145 or 150
- STAT 244
- PHYS 111 or PHYS 131/131L, 132/132L (or 151, 152, and 151L, 152L)

Electives (8-14 hours)

### Genetics and Cellular Biology
- BIOL 319
- BIOL 492
- BIOL 492m or 497
- CHEM 451

### Biology GCB Electives
- BIOL 415
- BIOL 418a
- BIOL 418b
- BIOL 421
- BIOL 422a
- BIOL 425
- BIOL 431
- BIOL 432
- BIOL 436
- BIOL 452
- BIOL 455
- BIOL 472
- BIOL 473

Three of the above must be taken, including at least one lab course

### Biology GB Electives
At least one additional 300-400 level BIOL elective must be taken from courses not on the GCB list above

### Mathematics/Physics Requirements
- MATH 145 or 150
- STAT 244

Year 1

- PHYS 131/131L, 132/132L (or 151, 152, and 151L, 152L)

Electives (8-10 hours)

### Integrative
- One course from the Ecology, Evolution and Behavior Area:
  - BIOL 327
  - BIOL 330
  - BIOL 365
  - BIOL 422a,b
  - BIOL 434
  - BIOL 435
  - BIOL 436
  - BIOL 461
  - BIOL 462
  - BIOL 463
  - BIOL 464
  - BIOL 465
  - BIOL 466
  - BIOL 468
  - BIOL 469
  - BIOL 470
  - BIOL 471
  - BIOL 490
  - BIOL 498

- One course from the Biological Diversity Area:
  - BIOL 350
  - BIOL 380
  - BIOL 471
  - BIOL 474
  - BIOL 483
  - BIOL 485
  - BIOL 486
  - BIOL 487
  - BIOL 488

- One course from the Morphology, Physiology and Development Area:
  - BIOL 330/ENSC 330
  - BIOL 337
  - BIOL 340
  - BIOL 423
  - BIOL 425
  - BIOL/ENSC 434
  - BIOL 441
  - BIOL 461
  - BIOL 467
  - BIOL 472
  - BIOL 473
  - BIOL 481
  - BIOL 489

- One course from the Cellular and Molecular Area:
  - BIOL 319
  - BIOL 335
  - BIOL 337
  - BIOL 415
  - BIOL 416
  - BIOL 418a
  - BIOL 421
  - BIOL 431
  - BIOL 432
  - BIOL 436
  - BIOL 451
  - BIOL 452
  - BIOL 455
  - BIOL 456

### Biological Sciences Electives (8-12 hours)
- Two BIOL lecture courses must be taken at the 400 level, and three BIOL courses above 220 must have a laboratory requirement. No course may be used for credit in more than one Area.

### Mathematics/Physics Requirements
- MATH 145 or 150
- STAT 244
- PHYS 111 or PHYS 131/131L, 132/132L (or 151, 152, and 151L, 152L)

- BIOL 492
- BIOL 492m or 497

**Electives (11-17 hours)**

### Medical Science
- BIOL 319
- BIOL 340
- CHEM 351, 352, or CHEM 451a,b
- BIOL 492
- BIOL 492m or 497

### Biology Electives (10 hours)
- Must include one 400-level elective course.

### Mathematics/Physics Requirements
- MATH 145 or 150
- STAT 244
- PHYS 131/131L, 132/132L (or 151, 152, and 151L, 152L)

**Electives (5-7 hours)**

### Medical Technology
- BIOL 319
- BIOL 335
- BIOL 340
- BIOL 350
- CHEM 351 or BIOL 332

### Mathematics/Physics Requirements
- MATH 125
- STAT 107 or 244
- PHYS 131/131L, 132/132L or (PHYS 151/151L and PHYS 152/152L)

Hospital Rotation (36 hours) — As biology majors, students in the medical technology curriculum take three years of prescribed course work at SIUE, then complete a fourth year of clinical/ professional study in the clinical laboratory at one of SIUE's affiliated hospitals. These students are not in residence on the SIUE campus during their senior year. Intern students move to the vicinity of the hospitals in St. Louis or Springfield. The department views the senior assignment for medical technology students in two ways: (1) successful completion of the hospital calendar year education program, and (2) achieving eligibility to apply for examination by the Board of Registry of the American Society of Clinical Pathologists, the certifying professional body in the United States. An outcome assessment also is provided by the scores received on the registry examination, which compares SIUE students' performance with other students in the United States who take the examination at the same time.

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### Sample Curriculum — Bachelor of Science,* Biological Sciences, Ecology, Evolution and Environment

#### Fall Semester

**Year 1**

- BIOL 150 – Biology I (BLS, EL) .......................... 4
- CHEM 121A – General Chemistry I (BPS) ................. 4
- CHEM 125A – General Chemistry Lab I (EL) .......... 1
- ENG 101 – English Composition .......................... 3
- MATH 125 - Pre-Calculus Mathematics with Trigonometry 3
  Total .................................................. 15

**Year 2**

- BIOL 220 – Genetics ........................................ 4
- CHEM 241A – Organic Chemistry I (BPS) .............. 3
- STAT 244 – Statistics (BICS) ............................. 4
- Breadth Social Sciences (BSS) ............................ 3
- RA 101 – Reasoning & Argumentation or PHIL 212 .... 3
  Total .................................................. 17

**Spring Semester**

**Year 1**

- BIOL 151 – Biology II (BLS, EL) .......................... 4
- CHEM 121B – General Chemistry II (BPS) .............. 4
- CHEM 125B – General Chemistry Lab II (EL) .... 1
- ENG 102 – English Composition II ....................... 3
- ACS 101 or 103 -Oral Expression ........................ 3
  Total .................................................. 15

**Year 2**

- BIOL 365 – Ecology (EGC, EL) ........................... 4
- CHEM 241B – Organic Chemistry II (BPS) ............ 3
- CHEM 245 – Organic Chemistry Lab (BPS, EL) .... 2
- QR 101, MATH 145, or MATH 150 ....................... 3
- Breadth Humanities (BHUM) ............................. 3
  Total .................................................. 15
### Sample Curriculum — Bachelor of Science,* Biological Sciences, Ecology, Evolution and Environment cont.

#### Fall Semester

<table>
<thead>
<tr>
<th>Year 3</th>
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<tbody>
<tr>
<td>BIOL MCP Elective 300-400 level</td>
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<td>PHYS 131/131L – College Physics I* or PHYS 151 – University Physics and 151L Lab</td>
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<td>Experience United States Cultures (EUSC)</td>
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</tbody>
</table>

*Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

**Students may substitute MATH 145/150 and PHYS 111 in place of MATH 125 and PHYS 131/131L & 132/132L.

#### Spring Semester

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<tr>
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<td>BIOL 327 – Evolution</td>
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<td>Year 3</td>
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<tr>
<td>BIOL 492m or 497</td>
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<td>BIOL EEE Elective 400 Level</td>
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<td>BIOL Elective 300-400 Level</td>
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### Sample Curriculum — Bachelor of Science* in Biological Sciences, Genetics and Cellular Biology

#### Fall Semester

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<thead>
<tr>
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<tbody>
<tr>
<td>BIOL 150 – Biology I (BLS, EL)</td>
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<td>CHEM 121A – General Chemistry I (BPS)</td>
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<td>CHEM 125A – General Chemistry Lab I (EL)</td>
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<td>ENG 101 – English Composition I</td>
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<td>MATH 145 - Calculus for Life Sciences (FQR)</td>
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<td>Year 2</td>
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<tr>
<td>BIOL 220 – Genetics (BLS, EL)</td>
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<tr>
<td>CHEM 241A – Organic Chemistry I (BPS)</td>
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<tr>
<td>RA 101 – Reasoning &amp; Argumentation</td>
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<td>STAT 244 – Statistics (BICS)</td>
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<tr>
<td>Breadth Humanities (BHUM)</td>
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<td>Year 3</td>
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<tr>
<td>BIOL Non-GCB Elective</td>
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<td>CHEM 351– Biochemistry I</td>
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<tr>
<td>PHYS 131/131L or PHYS 151, 151L</td>
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<td>BIOL GCB Elective 400 Level</td>
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<td>BIOL GCB Elective 400 Level</td>
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<td>Interdisciplinary Studies (IS)</td>
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<td>Health Experience (EH)</td>
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</tbody>
</table>

*Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.
Sample Curriculum — Bachelor of Science* in Biological Sciences, Integrative Biology

Fall Semester

Year 1
BIOL 150 – Biology I (BLS, EL) ......................................... 4
CHEM 121A – General Chemistry I (BPS) .......................... 4
CHEM 125A – General Chemistry Lab I (EL) ..................... 1
ENG 101 – English Composition I .................................... 3
MATH 125 - Pre-Calculus Mathematics with Trigonometry .... 3
Total .......................................................... 15

Year 2
BIOL 220 – Genetics (BLS, EL) ....................................... 4
CHEM 241A – Organic Chemistry I (BICS) ......................... 3
STAT 244 – Statistics (BICS) ......................................... 4
RA 101 – Reasoning & Argumentation or PHIL 213 ......... 3
OR 101, MATH 145, or MATH 150 .............................. 3
Total .......................................................... 17

Year 3
BIOL Elective .......................................................... 4
PHYS 131/131L – College Physics II** or
PHYS 151 – University Physics and 151L Lab .................... 5
Breadth Social Science (BSS) ...................................... 3
Breadth Fine & Performing Arts (BFPA) .......................... 3
Total .......................................................... 15

Year 4
BIOL 492 .............................................................. 1
BIOL Elective 400 Level ............................................. 3
BIOL Cellular & Molecular Biology Elective ...................... 3-4
Interdisciplinary Studies (IS) ........................................ 3
Global Cultures (EGC) ................................................ 3
Elective ........................................................ 3
Total .......................................................... 16-17

Spring Semester

Year 1
BIOL 151 – Biology II (BLS, EL) ..................................... 4
CHEM 121B – General Chemistry II (BPS) ......................... 4
CHEM 125B – General Chemistry Lab II .......................... 1
ENG 102 – English Composition II ................................ 3
ACS 101 or 103 - Oral Expression .................................. 3
Total .......................................................... 15

Year 2
BIOL Ecology, Evolution, & Behavior Elective ................. 3-4
CHEM 241B – Organic Chemistry II (BPS) ......................... 3
CHEM 245 – Organic Chemistry Lab (EL) ....................... 2
Health Experience (EH) .............................................. 3
United States Culture (EUSC) ..................................... 3
Total .......................................................... 14-15

Year 3
BIOL Biological Diversity Elective .................................. 3-4
BIOL Morphology, Physiology & Develop Elective ............. 3-4
PHYS 132/132L – College Physics II** or
PHYS 152 University Physics II and 152L Lab .................... 5
Breadth Humanities (BHUM) ...................................... 3
Total .......................................................... 14-16

Year 4
BIOL 492m or 497 ..................................................... 1
BIOL Elective 400 Level ............................................. 3
BIOL Elective ..................................................... 3
Elective .......................................................... 4
Total .......................................................... 14

* Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

** Students may substitute MATH 145/150 and PHYS 111 in place of MATH 125 and PHYS 131/131L & 132/132L.

Sample Curriculum — Bachelor of Science+ in Biological Sciences, Medical Sciences

Fall Semester

Year 1
BIOL 150 – Biology I (BLS, EL) ......................................... 4
CHEM 121A – General Chemistry I (BPS) .......................... 4
CHEM 125A – General Chemistry Lab I (EL) ..................... 1
ENG 101 – English Composition I .................................... 3
MATH 145 - Calculus for Life Sciences (FQR) ...................... 5
Total .......................................................... 17

Year 2
BIOL 220 – Genetics .................................................. 4
CHEM 241A – Organic Chemistry I (EL) ............................ 3
RA 101 – Reasoning & Argumentation or PHIL 212 ......... 3
STAT 244 – Statistics (BICS) ......................................... 4
Breadth Humanities (BHUM) ...................................... 3
Total .......................................................... 17

Spring Semester

Year 1
BIOL 151 – Biology II (BLS, EL) ..................................... 4
CHEM 121B – General Chemistry II (BPS) ......................... 4
CHEM 125B – General Chemistry Lab II .......................... 1
ENG 102 – English Composition II ................................ 3
ACS 101 or 103 - Oral Expression .................................. 3
Total .......................................................... 15

Year 2
BIOL 319 – Cell & Molecular Biology ................................ 4
CHEM 241B – Organic Chemistry II (BPS) ......................... 3
CHEM 245 – Organic Chemistry Lab (EL) ....................... 2
PHYS 131/131L or PHYS 151, 151L .............................. 5
Total .......................................................... 14

* Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

** Students may substitute MATH 145/150 and PHYS 111 in place of MATH 125 and PHYS 131/131L & 132/132L.
Sample Curriculum — Bachelor of Science* in Biological Sciences, Medical Sciences cont.

Fall Semester

Year 3
PHYS 132/132L or PHYS 152, 152L .......................... 5
Breadth Social Science (BSS) ............................... 3
BIOL Elective .............................................. 3
Breadth Fine & Performing Arts (BFPA) .................. 3
Total ...................................................... 14

Year 4
BIOL 492 .................................................. 1
BIOL Elective (400 Level) ................................. 4
CHEM 351 - Biochemistry I ............................... 3
Interdisciplinary Studies (IS) .............................. 3
Elective .................................................... 2
Total ...................................................... 13

Year 4
Breadth Fine & Performing Arts (BFPA) .......... 14-15

* Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

Sample Curriculum - Bachelor of Science* in Biological Sciences, Medical Technology

Fall Semester

Year 1
BIOL 150 – Biology I (BLS, EL) ......................... 4
CHEM 121A – General Chemistry I (BPS) ............ 4
CHEM 125A – General Chemistry Lab I (EL) ........ 1
ENG 101 – English Composition I ...................... 3
MATH 125 - Pre-Calculus Mathematics with Trigonometry 3
Breadth Humanities (BHUM) / Experience United States Cultures (EUSC) 3
Total ...................................................... 18

Year 2
BIOL 220 – Genetics ..................................... 4
CHEM 241A – Organic Chemistry I (BPS) ........... 3
PSY 101 – Reasoning & Argumentation or PHIL 212 3
QQ 101, MATH 145, or MATH 150 .................... 3
STAT 107-Concepts of Stats/STAT 244-Statistics (BICS) 3-4
Total ...................................................... 16-17

Year 3
BIOL 350 – Microbiology ................................ 4
CHEM 351 – Biochemistry .............................. 3
PHYS 132/132L - College Physics II .................. 5
Breadth Fine & Performing Arts (BFPA) ............. 3
Total ...................................................... 15

Year 4
Hospital Clinical Education ............................ 18

Spring Semester

Year 3
BIOL 340 – Physiology ................................ 4
BIOL Elective (300-400 Level) ......................... 3-4
Elective ................................................ 3
Experience Global Cultures (EGC) ....................... 3
Health Experience (EH) ................................ 3
Total ...................................................... 16-17

Year 4
BIOL 492m or 497 ....................................... 2
CHEM 351 – Biochemistry II ............................ 3
Experience United States Culture (EUSC) ............ 3
BIOL Elective (300-400 Level) ......................... 3-4
Elective ................................................ 3
Total ...................................................... 14-15

* Students pursuing a Bachelor of Arts degree will need to complete 6 additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.
Sample Curriculum — Bachelor of Science in Biological Sciences, Professional Educator Licensure (9-12) option

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<th>Credits</th>
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<tr>
<td><strong>Year 1</strong></td>
<td>BIOL 150 – Biology I (BLS, EL)</td>
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<td>MATH 125 - Pre-Calculus Mathematics with Trigonometry</td>
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<td><strong>Year 2</strong></td>
<td>BIOL 220 – Genetics</td>
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<td>GEOG 210 – Physical Geography (BPS)</td>
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<td>PSYC 111 – Foundations of Psychology (BSS)</td>
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**Minor Requirements in Biological Sciences**

Students wishing to complete a minor in biological sciences must take a minimum of 19 hours of biology courses, at least 9 of which must be completed at SIUE, with a grade point average of 2.0 or higher in all biology courses attempted at SIUE. Due to the sequencing of courses, students are advised that it will normally take at least two years to complete the minor.

Courses must include the following: BIOL 150, 151, and 220 (A grade of C or better is required in each of these courses before proceeding to the next course).

The remaining hours may be completed with any course in biological sciences except 111, 491, 493 or 494. All the courses in this group have a chemistry prerequisite. Please consult the biology advisor for details.

**Graduation Requirements**

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
At least 60 of which must be completed at a regionally accredited 4-year institution
- A minimum cumulative grade point average of 2.0
- Bachelor of Arts only: one year of the same foreign language
- File an Application for Graduation by the first day of the term in which you plan to graduate.

**Combined Bachelor of Science and Doctor of Dental Medicine Program (3+4)**

A combined arts and sciences dental curriculum that leads to the degrees of bachelor of science and doctor of dental medicine (B.S./D.M.D.) is available for students interested in attending Southern Illinois University Edwardsville for their undergraduate degree. The preprofessional part of the curriculum is completed in just three years on the Edwardsville campus, and the four-year professional portion at the SIU School of Dental Medicine in Alton, Illinois. Students interested in the dental program or the combined baccalaureate in biology/doctorate in dentistry (B.S./D.M.D) program should write to the Office of Admissions and Records, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002, [siue.edu/dentalmedicine](http://siue.edu/dentalmedicine), or phone (618) 474-7170.

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**Chemistry**

Science Building West, Room 3105 [siue.edu/artsandsciences/chemistry/](http://siue.edu/artsandsciences/chemistry/)

**Distinguished Research Professor**

O’Brien, Leah C., (Chair), Ph.D., 1987, University of Arizona, Tucson

**Professors**

De Meo, Cristina, Ph.D., 2001, University of Georgia - Athens
Shaw, Michael J., Ph.D., 1993, University of British Columbia
Voss, Eric J., Ph.D., 1992, Northwestern University

**Associate Professors**

Dixon, Robert P., Ph.D., 1993, University of Pittsburgh
Lu, Yun, Ph.D., 1996, Nankai University
Navarre, Edward, Ph.D., 2002, University of Vermont
Shabestary, Nahid, Ph.D., 1984, Michigan State University
Wei, Chin-Chuan, Ph.D., 1998, City University of New York
Wiediger, Susan D., Ph.D., 1999, Rice University

**Assistant Professors**

Jones, Myron W., Ph.D., 2010, University of Oklahoma
Luesse, Sarah, Ph.D. 2004, Indiana University
Sumita, Mina, Ph.D., 2006, Wayne State University

**Program Description**

The Department of Chemistry offers several degree programs and active research opportunities in all the major disciplines of chemistry and biochemistry to satisfy diverse career goals of students. The department has well-equipped laboratories; students in each degree program can expect to gain experience in Fourier-transform nuclear magnetic resonance spectrometry, Fourier-transform infrared spectroscopy, high pressure liquid chromatography, atomic absorption spectrometry, mass spectrometry, and ultraviolet/visible spectroscopy. Through advanced coursework, students can gain experience in laser spectroscopy, vacuum line manipulations, high pressure syntheses and high temperature syntheses. Through the department’s research programs, students may gain experience in the most current techniques in each discipline of chemistry and biochemistry.

**Career Opportunities**

The undergraduate chemistry and biochemistry curricula prepare students for a variety of careers. Many chemistry majors begin careers in industry or choose to continue their studies with graduate work in chemistry or biochemistry. Others enter schools of medicine, dentistry, veterinary medicine, or pharmacy.

Opportunities to make significant contributions to society are available to chemistry graduates who have additional training in fields such as computer science, environmental science, economics, education, law, library science, marketing, mathematics, and technical writing.

**Degrees and Curricula**

Bachelor of Science, Chemistry

Specializations available in the following:
The Department of Chemistry offers bachelor of science and bachelor of arts degrees. Four curricula leading to the bachelor of science degree include the following: (a) a curriculum that meets the guidelines of the American Chemical Society for the training of professional chemists; (all graduates will be certified by the American Chemical Society as having completed an approved curriculum); (b) a basic curriculum that offers greater flexibility in the selection of required chemistry courses and electives; (c) a curriculum that leads to certification for teaching high school chemistry, and (d) a curriculum that meets the guidelines of the American Chemical Society for the training of professional biochemists.

The bachelor of arts curricula have fewer chemistry requirements than the bachelor of science curricula.

Three curricula provide opportunities to accommodate a variety of student goals: (a) a flexible curriculum that gives a general introduction to chemistry and which is supplemented by electives in chemistry or a minor in another field; (b) a more structured curriculum that provides preparation for the medical science professions; (c) a curriculum that provides preparation for the biochemistry professions.

Admission
High school students who plan to major in one of the degree programs in chemistry should complete at least three years of college preparatory mathematics (two years of algebra and one of geometry) before entering the University. A fourth year of college preparatory mathematics (to include trigonometry) and one year each of biology, chemistry, and physics are strongly recommended.

Admission to a degree program in chemistry requires an application for a major and acceptance by the department. Once admitted, students are formally affiliated with the Chemistry Department and assigned a professional academic advisor. Advisement is mandatory; majors are permitted to register each term only after meeting with their academic advisor. Because the study of science is progressive, students are encouraged to select their major field of study early in their academic careers to ensure orderly progress toward meeting degree requirements. To be admitted, students already enrolled in the University must have a minimum grade point average of 2.4 in science and mathematics courses completed, and a cumulative grade point average of 2.5 or higher in all courses taken at SIUE and successfully completed CHEM 121a with a C or better. Transfer students should have a 2.6 grade point average in science and mathematics courses, and a 2.5 average in courses taken at other colleges and universities. Students who do not meet the GPA requirements may be provisionally accepted and will receive advisement.

Academic Standards/Retention
Students should show satisfactory academic progress to be retained in a degree program.

Students may be dropped from the program for any of the following circumstances:

- Grade point average of 1.0 or below in any term;
- Cumulative grade point average of less than 2.0 in the major at any time;
- Withdrawal, incomplete, and a combination of failing grades in 50 percent or more of the courses for which the student is registered during two successive terms;
- Any combination of three withdrawal, incomplete, or failing grades in any single required course in the major discipline.

For readmission, students must meet the same admission requirements as students entering the program for the first time.

Grades of C or above in CHEM 121a and CHEM 121b are required of all students before proceeding into any chemistry courses numbered above 199.

Transfer students, upper division students and others who have not earned a grade of C or above in CHEM 121 will be required to do so as a condition of acceptance as a major in chemistry.

Transfer
Coursework completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information regarding
transfer, please visit siue.edu/transfer.

**Bachelor of Science/Master of Science Curriculum**

Undergraduates with exceptional academic credentials may be able to earn both the bachelor’s degree and the master’s degree in chemistry in 5 years (3 + 2) of study. Admission to this program is based on departmental recommendation to and approval by the Graduate School. Students who are interested in this program option should seek advice from their faculty advisors early in their junior year.

**General Education Requirements**

General education requires a minimum of 36 hours of credit and includes completion of 5 Experience requirements. Experience requirements may be satisfied through approved coursework or experiences outside of the classroom. General education courses in the area of physical science are satisfied by required courses in the curriculum. University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

**Degree Requirements**

Major requirements in all degrees

**Chemistry**

CHEM 121a,b CHEM 125a,b CHEM 241 a,b CHEM 245
CHEM 300 CHEM 331 CHEM 335

**Mathematics**

MATH 150*

*Either MATH 145 or MATH 150 is required for B.S. Chemistry and Biochemistry Specialization

**Computer Science or Statistics Requirements** – Choose one of the following:

CS 140 STAT 107 STAT 244* STAT 380*

STAT 480a,b

*Either STAT 244 or 380 is required for Biochemistry and Forensics Chemistry Specializations

Complete all requirements noted within a specialization. Students not planning to complete a specialization should complete requirements noted within the General Chemistry section.

**General Chemistry Requirements**

**Bachelor of Science**

Chemistry requirements

CHEM 361 a,b CHEM 365 a,b CHEM 411 CHEM 499

An additional 6 semester hours from the following:

CHEM 410 CHEM 419 CHEM 431 CHEM 432
CHEM 439 CHEM 441 CHEM 444 CHEM 445
CHEM 446 CHEM 449 CHEM 451a CHEM 451b
CHEM 451c CHEM 459 CHEM 461a CHEM 461b
CHEM 469 CHEM 471 CHEM 479

An additional 3 semester hours from the following:

CHEM 345 CHEM 396 CHEM 415 CHEM 435
CHEM 455 CHEM 465 CHEM 496

Mathematics

MATH 152

**Physics requirements**

PHYS 151 PHYS 151L PHYS 152 PHYS 152L

Electives (17-19 hours)

**Bachelor of Arts**

Chemistry requirements

CHEM 361a CHEM 365a CHEM 499

An additional 9 semester hours from the following:

CHEM 361b CHEM 410 CHEM 411 CHEM 419
CHEM 431 CHEM 432 CHEM 439 CHEM 441
CHEM 444 CHEM 445 CHEM 446 CHEM 449
CHEM 451a CHEM 451b CHEM 451c CHEM 461a
CHEM 461b CHEM 469 CHEM 471 CHEM 479

An additional 3 semester hours from the following:

CHEM 345 CHEM 365b CHEM 396 CHEM 415
CHEM 435 CHEM 455 CHEM 465 CHEM 496

Math requirements

MATH 152

**Physics requirements**

PHYS 131, 131L, 132, and 132L may be substituted for PHYS 151, 151L, 152 and 152L

Approved Supporting Courses or Minor* (12-21 hours)

Electives (0-9 hours)

One year of the same foreign language

* Students may take a minor or a group of courses from one or more departments that will support their major educational and career objectives. If they choose the second alternative, the curriculum must include at least four supporting courses that total at least 12 hours of credit; the physics and mathematics courses required for the bachelor of arts degree do not count as supporting courses.

**American Chemical Society (ACS) Certified Biochemistry Specialization (B.S.)**

Chemistry requirements

CHEM 361 a,b CHEM 365 a,b CHEM 396 CHEM 411
CHEM 415 CHEM 431 CHEM 435 CHEM 451a, b, c
CHEM 455 CHEM 496 CHEM 499

Biology requirements

BIOL 150 BIOL 151 BIOL 220 BIOL 319

Math requirements

MATH 152

**Physics requirements**

PHYS 151 PHYS 151L PHYS 152 PHYS 152L
American Chemical Society (ACS) Certified Chemistry Specialization (B.S.)

Chemistry requirements
CHEM 361 a,b CHEM 365 a,b CHEM 411 CHEM 415
CHEM 431 CHEM 435 CHEM 451a CHEM 499
An additional 3 semester hours from the following:
CHEM 410 CHEM 419 CHEM 431 CHEM 432
CHEM 439 CHEM 441 CHEM 444 CHEM 445
CHEM 446 CHEM 449 CHEM 451a CHEM 451b
CHEM 451c CHEM 459 CHEM 461a CHEM 461b
CHEM 469 CHEM 471 CHEM 479
An additional 2 semester hours from the following:
CHEM 345 CHEM 396 CHEM 455 CHEM 465
CHEM 496

Math requirements
MATH 152

Physics requirements
PHYS 151 PHYS 151L PHYS 152 PHYS 152L

Biochemistry Specialization (B.S.)

Chemistry requirements
CHEM 410 CHEM 431 CHEM 435 CHEM 451a,b,c
CHEM 455 CHEM 461a,b CHEM 465 CHEM 499
An additional 4 semester hours from the following
CHEM 396 CHEM 432 CHEM 446 CHEM 449
CHEM 459 CHEM 471 CHEM 479 CHEM 496
BIOL 456

Biology requirements
BIOL 150 BIOL 151 BIOL 220 BIOL 319

Physics requirements
PHYS 151 and 151L, PHYS 152 and 152L, or PHYS 131 and 131L

Forensics Specialization (B.S.)

Chemistry requirements
CHEM 361 a,b CHEM 365 a,b CHEM 451a CHEM 431
CHEM 435 CHEM 439 CHEM 446 CHEM 471
CHEM 499

Biology requirements
BIOL 150 BIOL 151 BIOL 220 BIOL 319
BIOL 423

Environmental Sciences requirements
ENSC 428 ENSC 428L
An additional 3 semester hours from the following:
CHEM 410 CHEM 411 CHEM 439 CHEM 451b

Math requirements
MATH 152

Physics requirements
PHYS 151 PHYS 151L PHYS 152 PHYS 152L

Medical Science Specialization (B.A.)

Chemistry requirements
CHEM 361a CHEM 365a CHEM 451a,b CHEM 499
An additional 3 semester hours from the following:
CHEM 361b CHEM 410 CHEM 419 CHEM 431
CHEM 432 CHEM 439 CHEM 441 CHEM 444
CHEM 445 CHEM 446 CHEM 449 CHEM 451a
CHEM 451b CHEM 451c CHEM 459 CHEM 461a
CHEM 461b CHEM 469 CHEM 471 CHEM 479
An additional 3 semester hours from the following:
CHEM 345 CHEM 365b CHEM 396 CHEM 415
CHEM 435 CHEM 455 CHEM 496

Biology requirements
Biology 150

Additional 6 semester hours from the following:
BIOL 151 BIOL 220 BIOL 319 BIOL 335 BIOL 340

Math requirements
MATH 152

Physics requirements
PHYS 151/151L and PHYS 152/152L or PHYS 131/131L and 132/132L

Electives (9-11 hours)
Additional chemistry and biology recommended

Requirements for students seeking Professional Educator Licensure

Admission to a professional education courses is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website http://www.siue.edu/education/, and by making an appointment with a School of Education Health and Human Behavior advisor.
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### Sample Curriculum for the Bachelor of Science in Chemistry, Specialization in Biochemistry

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<th>Year</th>
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| **Spring Semester** |
| **Year 1** |
| BIOL 150 - Intro to Biological Sciences I (BLS, EL) | 4 |
| CHEM 121b – General Chemistry (BPS) | 4 |
| CHEM 125b – General Chemistry Lab (EL) | 1 |
| ENG 102 – Composition | 3 |
| MATH 145 or 150 – Mathematics Requirement | 5 |
| **Total** | 17 |
| **Year 2** |
| CHEM 241b – Organic Chemistry (BPS) | 3 |
| CHEM 245 – Organic Chemistry Lab (EL) | 2 |
| Health Experience (EH) | 3 |
| PHYS 132 – College Phys II: Electricity, Magnetism & Optics | 4 |
| PHYS 132L - College Physics II Lab | 1 |
| Elective | 3 |
| **Total** | 16 |
| **Year 3** |
| BIOL 319 - Cell & Molecular Biology | 4 |
| CHEM 451b – Biochemistry | 3 |
| CHEM 455 - Biochemistry Lab | 2 |
| STAT 244 - Statistics (BICS) | 4 |
| Breadth Fine & Performing Arts (BFPA) | 3 |
| **Total** | 16 |
| **Year 4** |
| CHEM 461b – BioPhysical Chemistry II | 3 |
| CHEM 431 – Instrumental Analysis | 3 |
| CHEM 435 – Instrumental Analysis Lab | 1 |
| CHEM 499 – Senior Assignment | 0 |
| CHEM Elective | 2 |
| Breadth Humanities (BHUM) | 3 |
| **Total** | 12 |

### Sample Curriculum for the Bachelor of Science in Chemistry, ACS Certified Chemistry

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| **Spring Semester** |
| **Year 1** |
| CHEM 121b – General Chemistry (BPS) | 4 |
| CHEM 125b – General Chemistry Lab (EL) | 1 |
| ENG 102 – Composition | 3 |
| MATH 152 – Calculus II (BPS) | 4 |
| RA 101 - Reasoning & Argumentation or PHIL 212 | 3 |
| **Total** | 16 |
| **Year 2** |
| CHEM 241b – Organic Chemistry (BPS) | 3 |
| CHEM 245 – Organic Chemistry Lab (EL) | 2 |
| STAT 107, 244 or 380 (BICS) | 3-4 |
| PHYS 152 – University Physics (BPS) | 4 |
| PHYS 152L – University Physics Lab (EL) | 1 |
| Breadth Life Science (BLS) | 3 |
| **Total** | 16-17 |
## Sample Curriculum for the Bachelor of Science in Chemistry, ACS Certified Chemistry cont.

### Fall Semester

**Year 3**
- CHEM 300 - Professionalism in Science .................. 1
- CHEM 361a – Physical Chemistry ............................ 3
- CHEM 365a – Physical Chemistry Lab ...................... 2
- CHEM 451a – Biochemistry ................................. 3
- Breadth Humanities (BHUM) .................................. 3
- Interdisciplinary Studies (IS) ................................. 3
- Total .................................................................. 15

**Year 4**
- CHEM 411 – Inorganic Chemistry ............................ 3
- CHEM 415 – Inorganic Chemistry Lab ...................... 2
- Elective ............................................................. 3
- Elective ............................................................. 3
- Total .................................................................. 14

### Spring Semester

**Year 3**
- CHEM 361b – Physical Chemistry ............................ 3
- CHEM 365b – Physical Chemistry Lab ...................... 1
- CHEM Elective .................................................... 3
- Breadth Social Science (BSS)/Experience Global Culture (EGC) 3
- Experience United States Culture (EUSC) .................. 3
- Total .................................................................. 13

**Year 4**
- CHEM 431 – Instrumental Analysis ......................... 3
- CHEM 435 – Instrumental Analysis Lab .................... 1
- CHEM 499 – Senior Assignment .............................. 0
- CHEM Elective .................................................... 2
- Health Experience (EH) ......................................... 3
- Elective ............................................................. 3
- Elective ............................................................. 3
- Total .................................................................. 15

## Sample Curriculum for the Bachelor of Science, Chemistry, Specialization in Forensics Chemistry

### Fall Semester

**Year 1**
- CHEM 121a – General Chemistry I (BPS) ........................ 4
- CHEM 125a – General Chemistry Lab I (EL) .................. 1
- ENG 101 – Composition I ....................................... 3
- MATH 150 – Calculus I (FQR) .................................. 5
- ACS 101 or 103 - Oral Expression ............................ 3
- Total .................................................................. 16

**Year 2**
- CHEM 241a Organic Chemistry I (BPS) ........................ 3
- CHEM 331 – Quant Analysis Chemistry ...................... 3
- CHEM 335 – Quant Analysis Chem Lab ...................... 1
- PHYS 151 - University Physics I (BPS) ....................... 4
- PHYS 151L - University Physics Lab I (EL) ................ 1
- BIOL 151 - Intro to Biological Science II (BLS, EL) .... 4
- Total .................................................................. 16

**Year 3**
- CHEM 300 - Professionalism in Science .................. 1
- CHEM 361a – Physical Chemistry ............................ 3
- CHEM 365a – Physical Chemistry Lab ...................... 2
- CHEM 451a – Biochemistry ..................................... 3
- BIOL 319 - Cell & Molecular Biology ...................... 4
- Total .................................................................. 13

**Year 4**
- CHEM 471 - Principles of Toxicology ....................... 3
- ENSC 428 or CHEM 466 ....................................... 3
- ENSC 428L, CHEM 410, 411 or 451b ...................... 1-3
- STAT 244 or 380 (BICS) ....................................... 3-4
- Breadth Social Science (BSS)/Experience US Culture (EUSC) 3
- Total .................................................................. 13-16

### Spring Semester

**Year 1**
- CHEM 121b – General Chemistry II (BPS) ................. 4
- CHEM 125b – General Chemistry Lab II (EL) ............. 1
- ENG 102 – Composition II ..................................... 3
- MATH 152 – Calculus II ........................................ 5
- BIOL 150 - Intro to Biological Science I (BLS) .......... 4
- RA 101 - Reasoning and Argumentation .................. 3
- Total .................................................................. 20

**Year 2**
- CHEM 241b – Organic Chemistry II (BPS) ................. 3
- CHEM 245 – Organic Chemistry Lab (EL) .................. 2
- PHYS 152 – University Physics II (BPS) .................... 4
- PHYS 152L - University Physics Lab II (EL) .............. 1
- BIOL 220 - Genetics ............................................ 4
- Total .................................................................. 14

**Year 3**
- CHEM 361b - Physical Chemistry ............................ 3
- CHEM 365b - Physical Chemistry Lab ...................... 1
- BIOL 423 - Forensics Biology ................................ 3
- Breadth Fine & Performing Arts (BFPA) ................... 3
- Health Experience (EH) ........................................ 3
- Elective ............................................................. 1
- Total .................................................................. 14

**Year 4**
- CHEM 431 - Instrumental Analysis ......................... 3
- CHEM 435 - Instrumental Analysis Lab .................... 2
- CHEM 499 - Senior Assignment .............................. 0
- CHEM 432 - Forensics Chemistry ............................ 3
- Breadth Humanities (BHUM)/Global Cultures (EGC) 3
- Interdisciplinary Studies (IS) ................................. 3
- Total .................................................................. 14
### Sample Curriculum for the Bachelor of Arts in Chemistry, Basic

#### Fall Semester

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### Sample Curriculum for the Bachelor of Science in Chemistry, Basic

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<tr>
<td>CHEM 300 - Professionalism in Science</td>
<td>CHEM 361b – Physical Chemistry</td>
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<td>CHEM 361a – Physical Chemistry</td>
<td>CHEM 365b – Physical Chemistry Laboratory</td>
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<td>CHEM 411 – Inorganic Chemistry</td>
<td>CHEM 499 – Senior Assignment</td>
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## Sample Curriculum for the Bachelor of Arts in Chemistry, Medical Science

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<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>CHEM 121a – General Chemistry (BPS)</td>
<td>CHEM 121b – General Chemistry (BPS)</td>
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<tr>
<td>CHEM 125a – General Chemistry Laboratory (EL)</td>
<td>CHEM 125b – General Chemistry Laboratory (EL)</td>
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<tr>
<td>ENG 101 – Composition</td>
<td>ENG 102 – Composition</td>
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<tr>
<td>MATH 150 – Calculus I (FQR)</td>
<td>MATH 152 – Calculus II (BPS)</td>
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<td>ACS 101 or 103 - Oral Expression</td>
<td>RA 101 - Reasoning and Argumentation</td>
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<td>CHEM 241a – Organic Chemistry (BPS)</td>
<td>CHEM 241b – Organic Chemistry (BPS)</td>
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<td>PHYS 151 – University Physics &amp; PHYS 151L – University Physics Lab or PHYS 131/131L (BPS, EL)</td>
<td>CHEM 245 – Organic Chemistry Lab (EL)</td>
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<tr>
<td>BIOL 150 - Intro to Biological Science I (BLS, EL)</td>
<td>PHYS 152 – University Physics &amp; PHYS 152L – University Physics Lab or PHYS 132/132L (BPS, EL)</td>
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<td>Breadth Social Science (BSS)</td>
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<td>Fine &amp; Performing Arts or Humanities</td>
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<tr>
<td>CHEM 331 – Quantitative Analytical Chemistry</td>
<td>Foreign Language 102 (EGC)</td>
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<td>CHEM 335 – Analysis Chemistry Laboratory</td>
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<td>CHEM 361a – Physical Chemistry</td>
<td>BIOL 151 (BLS, EL) or Approved BIOL Elective</td>
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<td>CHEM 365a – Physical Chemistry Laboratory</td>
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<td>Foreign Language 101 (BICS)</td>
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<td>Health Experience (EH)</td>
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<td><strong>Total</strong> 16</td>
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<td>CHEM 451a – Biochemistry</td>
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<td>Breadth Humanities (BHUM)/Experience United States Culture (EUSC)</td>
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<td>BIOL 220 - Genetics or BIOL Elective</td>
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Sample Curriculum for the Bachelor of Science in Chemistry, Professional Educator Licensure (9-12) option

Fall Semester

Year 1
CHEM 121a – General Chemistry I (BPS) ........................................ 4
CHEM 125a – General Chemistry Lab I (EL) ..................................... 1
ENG 101 – English Composition I .................................................. 3
RA 101 – Reasoning & Argumentation or PHIL 212 ....................... 3
Experience United States Cultures (EUSC) .................................. 3
ACS 101 or 103 - Oral Expression .............................................. 3
Total ........................................... 17

Year 2
CHEM 241a – Organic Chemistry I (BPS) ....................................... 3
BIOL 151 – Intro to Biological Science II ....................................... 4
MATH 152 – Calculus II (BPS) .................................................... 5
PHYS 151 – University Physics I (BPS) ......................................... 4
PHYS 151L – University Physics Lab I (EL) ................................. 1
Total ........................................... 17

Year 3
CHEM 300 - Professionalism in Science ....................................... 1
CHEM 331 – Quantitative Analytical Chemistry .......................... 3
CHEM 335 – Analytical Chemistry Lab ......................................... 1
CHEM 361a – Physical Chemistry .............................................. 3
CHEM 365a – Physical Chemistry Lab ......................................... 2
CHEM 451a – Biochemistry ...................................................... 3
Breadth Fine & Performing Arts (BFPA) ...................................... 3
Total ........................................... 16

Year 4
CHEM 494 – Secondary Chemistry Teaching Methods .................. 3
CI 315a – Methods of Teaching in Secondary Schools .................. 2
CIED 323 – Adolescent Content Literacy ................................... 3
EPFR 315 – Educational Psychology .......................................... 3
EPFR 320 – Foundations of Ed in a Multicultural Society ............. 3
SPE 400 – The Exceptional Child .............................................. 3
Total ........................................... 17

Spring Semester

Year 1
CHEM 121b – General Chemistry II (BPS) .................................... 4
CHEM 125b – General Chemistry Lab II (EL) ............................... 1
BIOL 150 – Intro to Biological Science I (BLS, EL) ....................... 4
ENG 102 – English Composition II ............................................. 3
MATH 150 – Calculus I (FQR) .................................................. 5
Total ........................................... 17

Year 2
CHEM 241b – Organic Chemistry II (BPS). ................................. 3
CHEM 245 – Organic Chemistry Lab (EL) .................................. 2
CIED 100 – Introduction to Education ........................................ 2
PHYS 152 – University Physics II ............................................. 4
PHYS 152L – University Physics Lab II ..................................... 1
STAT 107, 244, 380, or 480 .................................................... 3-4
Total ........................................... 15-16

Year 3
CHEM Elective ........................................................................... 3
GEOG 111 – Introductory Geography (BSS, EGC) ...................... 3
IS 335, 336, 363, or 364 (recommended) .................................. 3
SCI 451 – Integrated Science ................................................... 3
Health Experience (EH) ......................................................... 3
Total ........................................... 18

Year 4
CHEM 499 – Senior Assignment ............................................... 0
CI 315b – Methods of Teaching in Secondary Schools ............... 2
CI 352d – Student Teaching – Secondary ................................ 10
Total ........................................... 12

Chemistry Minor Requirements*
A minor in chemistry requires 24 hours with a grade point average of 2.0 or higher as follows:
CHEM 121a,b CHEM 125a,b CHEM 241a,b CHEM 245
Additional 6 semester hours from chemistry courses numbered 300 or above
Note: at least 6 of the 24 hours must be SIUE credit.

Combined Bachelor in Chemistry and Doctor of Dental Medicine Program (3+4)
A combined arts and sciences dental curriculum that leads to a Bachelors Degree in chemistry and doctor of dental medicine

(B.A. or B.S./D.M.D.) is available for students interested in attending Southern Illinois University Edwardsville for their undergraduate degree.

The pre-professional part of the curriculum is completed in three years on the Edwardsville campus, and the four-year professional portion is completed at the SIU School of Dental Medicine in Alton, Illinois. Students interested in the dental program or the combined baccalaureate in chemistry/dentrate in dentistry program should contact the Office of Admissions and Records, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002, siue.edu/dentalmedicine, or phone (618) 474-7170.
Graduation Requirements
The following requirements must be met in order to obtain a degree in chemistry:

- Earn a minimum of 120 hours (129 for Chemistry - Teacher Certification) of acceptable credit with a cumulative grade point average of 2.0 or higher.
- Complete at least 12 hours of SIUE credit in major courses numbered above 299 with a cumulative grade point average of 2.0 or above.
- Earn a GPA of 2.0 or above in all major courses numbered above 299.
- Complete at least 6 hours of SIUE credit in major courses numbered above 299 within 2 years preceding graduation.

No more than eight semester hours of D grades in any combination of science or mathematics courses may be counted toward a major in chemistry.

Credit hours earned through proficiency, transfer, CLEP or from a course, after credit has been received for similar or more advanced coursework in the same subject at SIUE or elsewhere, may not be applied toward graduation requirements.

Students admitted to a health professions school at the end of their junior year may transfer appropriate health professions school credits to complete the requirements for a degree in chemistry from SIUE.

Economics
Alumni Hall Building, Room 3129
siue.edu/business/economicsandfinance/

Distinguished Research Professor
Hafer, Rik W., Ph.D., 1979,
Virginia Polytechnic Institute and State University

Professors
Bharati, Rakesh C., Ph.D., 1991,
Indiana University - Bloomington
Kutan, Ali M., Ph.D., 1990,
Arizona State University

Associate Professor
Demirer, Riza, Ph.D., 2003,
University of Kansas – Lawrence
Evrensel, Ayse Y. (Chair), Ph.D., 1999,
Clemson University

Assistant Professors
Belasen, Ari., Ph.D., 2007,
State University of New York at Binghamton
Fu, Xudong, Ph.D., 2008,
University of Alabama - Tuscaloosa
Jategaonkar, Shrikant, Ph.D., 2009,
University of Arizona – Tucson
Jia, Jingyi (Jane), Ph.D., 2006,
Temple University

Instructors
Pettit, Mary Anne, M.A., 1977,
University of Tennessee
Richards, Warren D., M.S., 1995,
Southern Illinois University Edwardsville
Sullivan, Tim S., Ph.D., 1995,
University of Maryland
Wolff, Laura A., M.A., 1988,
University of Missouri-Columbia

Program Description
Economics is the study of how economic systems determine what goods and services will be produced, the prices and quantities of those goods and services, and who will receive them. All societies, from the most primitive to the most complex, must have economic systems that determine how scarce resources (land, raw materials, labor, machinery, and physical structures) will be used to satisfy the demands of the people living in those societies. Knowledge of economics is essential to understanding problems ranging from the consumer’s decision to purchase one brand of car over another to businesses’ decisions as to which goods and services to produce and how to price them.

Economics also helps us to understand the causes of inflation and unemployment, as well as the effects of government budgets or international trade deficits. Lawyers, bankers, managers of large and small businesses, government planners and journalists find economics a useful tool in understanding and solving problems.

Students choosing economics as their major pursue a core program designed to provide a thorough grounding in economic theory followed by more specialized study in such areas as money and banking, labor and industrial relations, international economics, public finance, industrial organization, and antitrust policy. Students develop their programs with the counsel of a faculty advisor.

The Department of Economics and Finance offers two degrees through the College of Arts and Sciences: a bachelor of arts degree with a
major in economics, and a bachelor of science degree with a major in economics. Candidates for either degree must complete 34 semester hours in economics and a minor in business, mathematics, any other social science, or another field approved by the student’s faculty advisor. Those students planning to enter Ph.D. programs in economics are strongly encouraged to take their minor in mathematics. Students who plan to seek employment upon completion of their bachelor’s degree or who plan to pursue graduate work in some other field are advised to elect a minor in a field related to their chosen career.

Students wanting more information may consult the Department of Economics and Finance, Alumni Hall, room 3129. Students also may meet with a faculty advisor in the Department of Economics and Finance.

Career Opportunities
Economists are employed in all areas of private industry; in federal, state, and local government agencies; in international organizations such as the United Nations and the World Bank; in labor unions; and in colleges and universities. Duties performed by professional economists include market research, forecasting, corporate planning, policy evaluation, economic impact studies, and consulting.

During the past several years, graduates of the SIUE program in economics (including the graduate program) have obtained employment in a variety of institutions. These include commercial banks, brokerage firms, government agencies, public utilities, state legislatures, manufacturing and retailing firms, consulting firms, as well as community colleges and small liberal arts colleges. A number of students have continued their study of economics by entering highly competitive Ph.D. programs. Law school is another popular option.

Degree Programs
Bachelor of Arts, Economics
Bachelor of Science, Economics

Retirement
Students in the bachelor of arts and bachelor of science degree programs are required to maintain a 2.0 grade point average in economics courses.

Transfer
Any course with a grade of D accepted for transfer credit to SIUE will not count toward a major in economics.

Degree Requirements
General Education Requirements for the Major
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements, all economics majors are required to complete the following: MATH 120 College Algebra (BPS).

Degree Requirements B.A. and B.S.:
ECON 111*
ECON 112*
MS 250*
MS 251*
ECON 301*
ECON 302*
ECON 415* or 417*
ECON Elective
ECON Elective
ECON Elective
Senior Assignment
* C or higher required.

ECON courses may not be used to meet introductory and distribution general education requirements.
## Sample Curriculum for the Bachelor of Arts in Economics

### Fall Semester

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 111 – Macroeconomics (BSS)</td>
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<tr>
<td>ENG 101 – Composition</td>
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<td>FL 101 (BICS)</td>
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<td>MATH 120 – College Algebra (BPS)</td>
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<td>Breadth Life Science (BLS)</td>
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## Sample Curriculum for the Bachelor of Science in Economics

### Fall Semester

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<tr>
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<th>Credits</th>
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<tr>
<td>ECON 111 – Macroeconomics (BSS)</td>
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<td>ENG 101 – Composition</td>
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## Spring Semester

### Year 1

| ECON 112 – Microeconomics (BSS)             | 3       |
| OR 101 or MATH 150 or Higher               | 3       |
| ENG 102 – Composition                      | 3       |
| Senior Assignment/Exit Requirement         | 0       |
| ECON Elective                               | 3       |
| Elective                                    | 3       |
| Elective                                    | 3       |
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<td>ECON 415 – Econometrics</td>
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<td>ECON 302 – Intermediate Macro Theory (BSS)</td>
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Sample Curriculum for the Bachelor of Science in Economics cont.

Fall Semester

Year 3
ECON Elective ........................................ 3
Global Cultures (EGC) .................................. 3
Health Experience (EH) ................................. 3
Minor ................................................... 3
Total .................................................... 15

Year 4
ECON Elective ........................................ 3
Elective .................................................. 3
Elective .................................................. 3
Minor* .................................................... 3
Total .................................................... 14

Spring Semester

Year 3
ECON Elective ........................................ 3
Interdisciplinary Studies (IS) ............................. 3
Elective .................................................. 3
Minor ................................................... 3
Total .................................................... 15

Year 4
ECON 417 – Business Forecasting or
ECON 415 – Econometrics ................................ 3
Senior Assignment/Exit Requirement .................. 0
ECON Elective ........................................ 3
Elective/Minor .......................................... 3
Elective .................................................. 3
Total .................................................... 15

Minor Requirements
Students satisfy the requirements for a minor in economics by taking ECON 111, 112, 301, 302 and two other economics electives at the 300 or 400 level for a total of 18 hours. Students must meet all economics course prerequisites and are required to maintain a 2.0 grade point average in Economics courses. Any course with a grade of D accepted for transfer credit to SIUE will not count toward the minor in economics.

Graduation Requirements
■ Maintain a 2.0 grade point average in economics courses and a cumulative 2.0 grade point average
■ Complete all economics courses in regularly scheduled classes. (No credit is granted for correspondence or extension courses.)
■ Present research projects from ECON 415 or ECON 417 to the faculty
■ Complete a minor as approved by the department

Students who have earned credit for a course required for a degree in economics by taking a proficiency examination, by transferring credit for a course, or by taking the course, may not earn credit for graduation by taking a similar or lower division course in economics at SIUE or at other higher education institutions.

English
Peck Hall, Room 3206
siue.edu/artsandsciences/english

Professors
Aktuna, Seran, Ph.D., 1993,
University of Pennsylvania
Berger, Charles, Ph.D., 1977,
Yale University
Hardman, Joel (Chair), Ph.D., 1994,
University of Pennsylvania
Johnson, Matthew S.S., Ph.D., 2006,
Indiana University-Bloomington
LaFond, Larry, Ph.D., 2001,
University of South Carolina
Pendergast, John, Ph.D., 1994,
University of Missouri
Ramascwamy, Anushiya, Ph.D., 1997,
University of Nevada-Reno
Rambsy, Howard, Ph.D., 2004,
Pennsylvania State University
Ruff, Nancy, Ph.D., 1987,
Princeton University
Savoie, John, Ph.D., 1998,
Yale University
Schmidt, Geoffrey, M.F.A., 1990,
University of Alabama
Skoblow, Jeffrey, Ph.D., 1985,
John Hopkins University
Vogrin, Valerie, M.F.A., 1991,
University of Alabama
Associate Professors
Anderson, Jill Kirsten (Asst. Chair), Ph.D., 2006, Michigan State University
DeSpain, Jessica, Ph.D., 2008, University of Iowa
Gurfinkel, Helena, Ph.D., 2007, Tufts University
Henderson, Brian, Ph.D., 2010, University of South Carolina
Hildebrandt, Kristine, Ph.D., 2003, University of California-Santa Barbara
Johnson, Heather, Ph.D., 2008, Indiana University-Bloomington
Seltzer, Catherine, Ph.D., 2005, University of North Carolina-Chapel Hill

Assistant Professors
Brooks, Tisha, Ph.D., 2013, Tufts University
Cali, Elizabeth, Ph.D., 2014, University of Texas-San Antonio
Clark, Tiana, M.F.A., 2017, Vanderbilt University
Kryah, Joshua, Ph.D., 2006, University of Nevada-Las Vegas

Program Description
Technological and economic trends often shift abruptly and dramatically, but students prepared in English language and literature will find that the abilities they’ve developed never grow obsolete. They possess the ultimate in transferable skills – critical thinking, careful reasoning, and masterful writing – and they are equipped for change, with the capacity to acquire new knowledge and technical expertise. Students of English language and literature are experienced in synthesizing complex material and are able to respond with clarity and precision. English majors and minors find their coursework to be both practical and pleasurable. They are able to satisfy their love of reading and intellectual challenge as they encounter some of the greatest works written in (or translated into) English. Students in the English Department choose from course offerings in a variety of areas, including linguistics, rhetoric and writing, and creative writing. In doing so, they further sharpen the ability to write persuasively for a variety of audiences, expand their understanding of language, and develop their creativity and cultural awareness.

Career Opportunities
English majors are well prepared for a variety of future opportunities. Teaching is just one the possibilities. With a BA in English plus professional educator licensure, a graduate is prepared to teach secondary English. Some graduates find positions teaching English overseas. Graduates might also build careers as a freelance writers or editors. English majors are well prepared for graduate and professional studies in business, law, and library science. Virtually every company, agency, institution, or entity produces documents, maintains a web presence, and uses social media, thus creating a demand for creative and technical writers, researchers, and editors. However, the English major can look well beyond occupations with “writer” and “editor” in the job title, successfully seeking employment in public relations, government, development, journalism, and business. Employers are looking for people with critical thinking skills and the ability to communicate effectively to train for specialized positions. Because the job market is competitive, students will want to take care to develop complementary skills and experience through minor coursework, volunteering, and internships.

Degree Programs
Bachelor of Arts in English
Bachelor of Arts in English, Professional Educator Licensure (Grades 9-12) option

Minors
English/Literature
English/Linguistics
English/Creative Writing
English/Rhetoric and Writing

Program Overview and General Department Information

Admission
To be admitted to the Bachelor of Arts program, students must:
- Complete all Academic Development courses required by the University.
- Complete any courses required to address high school deficiencies.
- Attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

Retention
- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.

Transfer
A student wishing to get credit for English major or minor requirements for courses
taken at other institutions should consult the Assistant Chair. Evaluation of credit toward general education requirements is completed upon admission to the University. The Assistant Chair will review additional credit to determine applicability toward major or minor requirements based on course content and appropriate fit within the overall curriculum. Courses numbered below 100 or with grades lower than C will not apply toward English major or minor requirements.

Requirements for students seeking Professional Educator Licensure

Admission to a teacher education program is a joint decision by the English Department in the College of Arts and Sciences (CAS) and the School of Education, Health, and Human Behavior (SEHHB). Therefore, as soon as they know they would like to pursue this option, it is essential that students desiring teacher licensure meet with the secondary education advisor in SEHHB Student Services for information about admission requirements to the teacher education program. Scheduling required courses involves early and frequent coordination between the student, the English education program director (English faculty mentor), CAS Advising, and SEHHB Student Services. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Illinois professional educator licensure.

Students seeking a Professional Educator License (PEL) must meet specific general education and professional education requirements and must pass multiple state licensure tests prior to upper-level education coursework, during the secondary education program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education, Health, and Human Behavior section of this catalog and by making an appointment with an SEHHB advisor.

General Education Requirements for the Major

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

Degree Requirements

Bachelor of Arts in English

Three required English courses (9 hours):
ENG 200 ENG 301 ENG 497a

Three survey courses (9 hours) from the following:
ENG 205 ENG 208 ENG 209 ENG 211
ENG 212 ENG 214 ENG 215 ENG 344*
ENG 345*

*ENG 344 and ENG 345 may be taken up to 6 hours when no topic is repeated but may only count one time each to fulfill survey requirement.

One major author course (3 hours) from the following:
ENG 307 ENG 404 ENG 471 ENG 473
ENG 477 ENG 479 ENG 480

One language systems course (3 hours) from the following:
ENG 369 ENG 370 ENG 400 ENG 403
ENG 416

One course in writing approaches (3 hours) from the following:
ENG 201 ENG 290 ENG 334 ENG 489
ENG 490 ENG 491

One additional upper-level literature elective (3 hours); may not include major authors course selected above

Two additional English electives (6 hours)

Minor requirements (18-21 hours)

Foreign Languages (all hours in the same language - 8 hours)

Additional electives (15-20 hours)

Notes:
The complete program can include no more than 15 hours at the 200 level and must include at least 15 hours at the 400 level.
ENG 499 may not count toward the 400-level course requirements.
Only courses in which students receive a C or better will be applied toward English major or minor requirements.
Students planning to attend graduate school in English or law school should take two years of a foreign language.

Bachelor of Arts in English, Professional Educator Licensure (Grades 9-12)

Five required English courses (15 hours):
ENG 200 ENG 301 ENG 475 ENG 485
ENG 497a

One British literature survey course (3 hours) from the following:
ENG 208 ENG 209

One American literature survey course (3 hours) from the following:
ENG 205 ENG 211 ENG 212

One World literature survey course (3 hours) from the following:
ENG 214 ENG 215

One major author (Shakespeare) course (3 hours) from the following:
ENG 307 ENG 471

Two courses in language systems (3 hours) from the following:
ENG 369 (required) ENG 400 ENG 403
ENG 416 ENG 470

One course in writing approaches (3 hours) from the following:
ENG 490 ENG 491

One additional upper level literature elective (3 hours) from the following:
ENG 306 ENG 309 ENG 310 ENG 315
ENG 340 ENG 341 ENG 342 ENG 343
ENG 344 ENG 345 ENG 404 ENG 420
ENG 445 ENG 446 ENG 457 ENG 463
Required Speech Communication Education Minor; see Department of Applied Communication Studies (18 hours)
Foreign Languages (all hours in the same language - 8 hours)
Professional Education Courses (29 hours)
See Requirements for Professional Educator Licensure (Grades 9-12) in the School of Education, Health, and Human Behavior section of this catalog.

Notes:
The complete program can include no more than 15 hours at the 400 level course requirements.
Only courses in which students receive a C or better will be applied toward English major requirements.
English majors seeking Professional Educator Licensure (9-12) in secondary English Language Arts in Illinois must maintain a cumulative 3.0 GPA in English courses and, independently, in Applied Communication Studies courses as well as an overall cumulative 2.5 GPA. GPAs will be calculated based on all college courses taken at all institutions.
English majors seeking Professional Educator Licensure must meet all requirements for the BA in English in addition to requirements for secondary licensure. Students seeking licensure will be mentored in the English Education program and will take 9 hours in specific courses in English rather than the 6 hours of electives in English required for the non-licensure BA English degree. Students seeking Professional Educator Licensure in secondary English Language Arts through the Department of English Language and Literature also must declare the Speech Communication Education (SPCE) minor program, offered by the Department of Applied Communication Studies.

One calendar year before the semester in which teacher candidates plan to begin student teaching, students seeking Professional Educator Licensure must apply for approval from the English Education Committee of the Department of English Language and Literature. Application is made through the Department’s student teacher screening process, described in detail at the Secondary English Education website: siue.edu/ artsandsciences/english/undergraduate/english_education/index.shtml

The Bachelor of Arts major in English plus Professional Educator Licensure (9-12) in secondary English Language Arts fulfills Illinois and Missouri state licensure requirements. Students interested in an endorsement to teach English as a second language should contact the ESL endorsement advisor.

See the Secondary English Education website for current announcements and up-to-date program information: siue.edu/ artsandsciences/english/undergraduate/english_education/index.shtml

### Sample Curriculum for the Bachelor of Arts in English

#### Fall Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENG 101 – English Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RA 101 - Reasoning &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR 101 or MATH 150 or Higher</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACS 101 or ACS 103 - Oral Expression</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>ENG 200 - Introduction to Literary Study (BHUM)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG (Survey/BHUM)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 101 (BICS)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Breadth Life Science (BLS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Experience Lab (EL)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
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</tr>
<tr>
<td>3</td>
<td>ENG (Writing Approaches)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG (Major Author/BHUM)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Interdisciplinary Studies (IS)</td>
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</tr>
<tr>
<td></td>
<td>Minor</td>
<td>3</td>
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<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
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</tr>
<tr>
<td>4</td>
<td>ENG (Upper-Level Lit Elective)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG Elective (200 or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
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<td>Total</td>
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#### Spring Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>ENG 102 – English Composition II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG (Survey/BHUM)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Breadth Social Science (BSS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Experience United States Cultures (EUSC)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Health Experience (EH)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>ENG (Survey/BHUM)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG 301 (Literary Theory)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 102 (EGC)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Breadth Physical Science (BPS)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>ENG (Language Systems)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENG Elective (200 or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Minor</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>15</td>
</tr>
<tr>
<td>4</td>
<td>ENG 497a – Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective/Minor</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>13</td>
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</tbody>
</table>

Of the 36 hours in English courses, at least 15 must be at the 400 level, and no more than 15 may be at the 200 level. English 499 may not count toward 400-level course requirements. Only courses in which the student receives a C or better will be accepted for credit toward the English major. Students must pass a year’s worth of a single foreign language.

Students planning to attend graduate school in English or law school should take two years of a foreign language.
Sample Curriculum for the Bachelor of Arts in English Professional Educator Licensure in Secondary English Language Arts (9-12)

Website: siue.edu/artsandsciences/english/undergraduate/english_education/index.shtml

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 English Composition I (FW1)</td>
<td>3</td>
</tr>
<tr>
<td>ACS 101 Public Speaking (FSPC)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 100 Intro to Education (NFS)</td>
<td>3</td>
</tr>
<tr>
<td>RA 101 Reasoning and Argumentation (FRA)</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
</tr>
</tbody>
</table>

| **Year 2**    |               |
| ENG 200 Introduction to Literary Study       | 3 |
| ENG 208 or 209 (Survey/BHUM)                 | 3 |
| ENG 205, 211, or 212 (Survey/BHUM)           | 3 |
| ACS 261 Oral Interpretation of Literature (BFPA) | 3 |
| Breadth Physical Science (BPS) with Lab (EL) | 3 |
| Health Experience (EH)                      | 2 |
| Total                                        | 17 |

| **Year 3**    |               |
| ENG 307 or 471 Shakespeare                    | 3 |
| ENG 490 Advanced Composition                  | 3 |
| ENG 475 Methods of Teaching Secondary English: Literature and Culture (fall semester only) | 3 |
| ACS 461 Strategies for Teaching Speech Communication (fall semester only) | 3 |
| EPFR 315 Educational Psychology               | 3 |
| Pre-Student Teaching Registration - see the English Department’s Screening Director to register for student teacher screening | |
| Total                                          | 15 |

| **Year 4**    |               |
| ENG 497A Senior Seminar                        | 3 |
| ACS 304, 305, 311, 419, 421, 423, 430, 433, or 434 | 3 |
| CIED 100 Methods of Teaching in Secondary      | 2 |
| CIED 323 Adolescent Content Literacy           | 3 |
| Elective                                        | 3 |
| Total                                          | 14 |

Complete the Illinois Licensure Testing System (ILTS) Test of Academic Proficiency or its equivalent (ACT/SAT) during Year 1 (required for English student teacher screening and for admission to the professional educator licensure program). See an SEHHB Student Services advisor for help with the initial testing requirement and to be admitted into courses in the SEHHB’s professional educator licensure program: siue.edu/education/advisement/.

The most up-to-date details about coursework and requirements for professional educator licensure can be found in the School of Education, Health, and Human Behavior section of this catalog.

Linguistics Minor Requirements

A minor in Linguistics may be combined with a major in English; however, courses may not be counted for both programs. English majors who satisfy the Linguistics minor requirements may substitute any English elective for the three-hour Language Systems requirement.

The Linguistics minor requires a minimum of six courses (18 hours) with the following structure:

- **Three Required Courses**
  - ENG 400 - Principles of Linguistics
  - ENG 408 - Phonological Analysis
  - ENG 409 - Syntactic Analysis

- **And Three Electives**, with the following structure:
  - At least one elective must be selected from the following courses:
ENG 207 - Language Awareness
ENG 318 - Language Endangerment and Death
ENG 416 - Language and Society
ENG 417 - Language and Ethnicity

At least one elective must be selected from the following courses:
- ENG 369 - Grammatical Analysis
- ENG 370 - Morphological Analysis
- ENG 403 - History of the English Language
- ENG 405 - Pragmatics
- ENG 468 - Second Language Acquisition
- ENG 474 - Bilingualism and Bilingual Education

Electives should be chosen in consultation with the Department mentor for the linguistics minor. See the Linguistics minor website for the current mentor.

Literature Minor Requirements

The Literature minor requires a minimum of 18 hours of English courses numbered 200 or above, with a grade of C or higher in each course. English 200 should be taken at the first possible opportunity; 6 of the remaining 15 hours must be taken in English courses numbered 400 or higher. Appropriate courses in creative writing, expository writing, and linguistics may be included as supplements to the literature courses. All courses should be selected with the approval of the Department mentor for the Literature minor. See the Literature minor website for the current mentor.

Creative Writing Minor Requirements

The Creative Writing minor may be combined with an English major. Minors are encouraged to take courses in more than one genre. A focus of poetry or fiction is required to fulfill the core requirements.

Core requirements (9 hours):
- ENG 290 (Introduction to Creative Writing)
- ENG 392 (Fiction Writing) or ENG 393 (Poetry Writing) (prerequisite: 290)
- ENG 492 (Advanced Fiction Writing) or ENG 493 (Advanced Poetry Writing) (prerequisite: 392 or 393)

Electives (9 hours) - choose three from the following options; at least one course must be a designated writing elective (marked with an asterisk):
- MC 202 (Writing for the Media) [non-MC majors only]
- ENG 394* (Playwriting)
- Any 400-level literature course (particularly contemporary literature)
- An off-genre poetry/fiction class (393 and/or 493 if you’re a fiction writer; 392 and/or 492 if you’re a poet)
- ENG 444* (Creative Nonfiction)
- ENG 494 (Literary Editing) [offered fall semester only]
- ENG 465* (Special Topics; variable topic course; see CW mentor to verify applicability to minor requirements)
- ENG 490 (Advanced Composition)
- ENG 498* (Creative Writing with Research) (prerequisite: 392 or 393 or consent of instructor)

Electives should be selected in consultation with the Dr. Joshua Kryah, the Department mentor for the Creative Writing minor.

Rhetoric and Writing Minor Requirements

The minor in Rhetoric and Writing requires a minimum of 18 hours. Students must complete ENG 101 and 102 with a grade of C or better before beginning the minor. Students are required to take ENG 201 (Intermediate Composition); ENG 490 (Advanced Composition); and either ENG 334 (Scientific Writing) or ENG 491 (Technical and Business Writing). In addition, students must select three electives from the following courses: ENG 332, 333, 410, 411, 412, 444, 488, or 489. With advisor approval, ENG 465 may also be used as an elective when an appropriate topic is offered. At least six of the eighteen hours must be taken at the 400-level. A minor in Rhetoric and Writing may be combined with an English major; however, courses may not be counted for both programs. Electives should be selected in consultation the Department mentor for the Rhetoric and Writing minor. See the Rhetoric and Writing minor website for the current mentor.
Core Requirements (9 hours):
ENG 201 - Intermediate Composition
ENG 490 - Advanced Composition
Either ENG 334 - Scientific Writing or
   ENG 491 - Technical and Business Writing

Electives (9 hours) from the following:
ENG 332 - Argument
ENG 333 - The Rhetoric of Videogames
ENG 410 - Rhetoric, Writing, and Citizenship
ENG 411 - Internship in Writing
ENG 412 - Digital Literacies
ENG 444 - Creative Nonfiction
ENG 465 - Special Topics (with advisor approval)
ENG 488 - Rhetoric, Politics, and the Law
ENG 489 - Style and Intentionality

Graduation Requirements
■ Complete all general education and specific program requirements.
■ Complete all minor requirements.
■ Complete two semesters of a single foreign language
■ File an Application for Graduation by the first day of the term in which you plan to graduate.

Environmental Sciences
Science Building West, Room 2180
siue.edu/artsandsciences/environment/

Professors
Guehlstorf, Nicholas, Ph.D., 2002,
   Purdue University
Lin, Zhi-Qing, Ph.D., 1996,
   McGill University
Retzlaff, William, Ph.D., 1987,
   Clemson University
Theodorakis, Chris, Ph.D., 1994,
   University of Tennessee

Assistant Professors
Greenfield, Ben, Ph.D., 2016,
   University of California-Berkeley
Martinez, Adriana E., Ph.D., 2013,
   University of Oregon
Yoon, Kyong Sup, Ph.D., 2006,
   University of Massachusetts-Amherst

Program Description
As the world’s human population continues to grow, social and political conflicts arise through increasing demand for dwindling or damaged environmental resources. As people worldwide struggle to attain higher living standards, natural resources become scarcer. Fossil and mineral resources become ever more difficult and costly to find and obtain, while air, water, and land become more polluted through neglect and overuse. These problems, however, can be managed with the skill and dedication of trained and informed professionals in the discipline. These individuals require broad interdisciplinary knowledge to understand and solve ecological or environmental problems which have resulted from social, political and economic conflicts.

While undergraduate education prepares students for citizenship in ways that go beyond professional concerns, the undergraduate program in Environmental Sciences provides skills needed for jobs and post-graduate studies. Students ending their studies at the undergraduate level gain skills necessary to work as risk analysts in consulting firms and regulatory agencies, as research assistants in local, state and national environmental departments, as scientific advisors to environmental organizations, etc. The degree also prepares students for graduate studies in the environmental sciences or other related professional fields including environmental law, medicine, pharmacology/toxicology, political sciences, and public health.

Environmental Health Professionals
The Environmental Health specialization provides students with the education necessary to identify, evaluate and control (prevent or mitigate) environmental conditions which may have significant impacts on human health. The coursework introduces students to basic principles of environmental health, such as environmental regulation, environmental sampling, microbiology, epidemiology, and risk assessment. Examples of the problem areas requiring environmental health expertise are: maintaining adequate quality and quantities of food and drinking water, safe treatment and disposal of domestic and industrial waste materials, limiting or reducing air and noise pollution, reducing occupational exposure to hazardous substances and unsafe conditions, assuring safe and healthful housing, controlling the spread of insect and rodent-borne illnesses, proper selection and use of pesticides, and understanding the effects of global climate changes on human health. The environmental health specialization prepares students to assess the health impacts of physical, chemical, and biological agents in
the environment and workplace and to explore means for their determination and management control. The students will gain the essential knowledge, skills and experience to prepare for the Environmental Health Practitioner’s examination through the Illinois Department of Financial and Professional Regulation (www.idfpr.com/profs/info/envhlthpract.asp) to become licensed Environmental Health Practitioners.

Environmental Toxicology Professionals

Toxic contaminants in the environment include different organic and inorganic chemical compounds, such as pesticides, industrial waste, and heavy metals. Environmental toxicology studies toxic pollutants and their effects on the physical and biological environment, such as identifying and investigating potential sources of pollutants in the environment and minimizing their toxic effects on humans and other organisms. The environmental toxicology specialization provides students with the knowledge to work as environmental toxicology specialists. Courses for environmental toxicology specialization include, but are not limited to, toxicant transport and transformation/degradation, sampling techniques, toxic substance identification and exposure assessment. The courses in biology, chemistry, mathematics, and physics provide students fundamental principles of environmental toxicology. Graduates from this degree specialization are also prepared for graduate studies and careers in environmental toxicology.

Environmental Management Professionals

Nationally, employment of conservation scientists and foresters was expected to increase by 5% for all occupations through 2010 (US Department of Labor, Bureau of Labor Statistics, 2012-2013). Growth should be strongest in state and local governments and in research and testing services, where demand will be spurred by a continuing emphasis on environmental protection and responsible land management. Job opportunities are expected to be best for soil conservationists and other natural resource scientists as government regulations (such as those regarding the management of storm-water) have created demand for knowledgeable persons about runoff and erosion control on farms and also in cities and suburbs. Soil and water quality experts will also be needed as states attempt to improve water quality by preventing non-point source pollution from agricultural producers and urban sprawl.

Environmental research and testing firms have also increased their hiring of conservation scientists and natural resource management specialists in recent years in response to demand for professionals to prepare environmental impact statements and erosion and sediment control plans, monitor water quality near logging sites, and advise on tree harvesting practices required by federal, state, and local regulations. Hiring in these firms should continue during the 2010-2020 period, though at a slower rate than over the last 10 years.

Career Opportunities

Environmental Health Professionals

Environmental health specialists use a broad background of scientific, technical, and behavioral knowledge and skills to investigate, evaluate, and mitigate environmental conditions problems and needs of the community. The plan and control programs can be implemented, including the enforcement of environmental regulations concerning air, water, food and wastewater, noise, hazardous substances, solid wastes, land use and conservation. The graduates can be employed in different levels of industry, government, and education, with a job title such as Environmental Health Specialist, Industrial Hygiene Specialist, Occupational Health Specialist, Environmental Auditor, Public Health Specialist, Health and Safety Officer, or Environmental Risk Assessor.

Environmental Toxicology Professionals

Occupations that use environmental toxicology include risk assessment, pharmaceutical development, food additive toxicity testing, managing regulatory compliance, residue or forensic analysis, pest control, monitoring and field sampling, industrial hygiene, and environmental health and safety. A substantial proportion of graduates elect to pursue advanced training in graduate or professional schools. Others with the BA/BS degree have gone on to law, medical, pharmacy, or veterinary medical school, as well as to graduate degrees in pharmacology, toxicology, agricultural and environmental chemistry, or public health. The environmental toxicology specialization prepares students for careers in
teaching, research, or other related professional fields. Examples of careers for graduates in environmental toxicology specialization include Environmental Toxicologist, Staff Toxicologist, Environmental Health, and Safety Specialists.

**Environmental Management Professionals**

The curriculum of the Environmental Management specialization prepares students for careers in management and protection of natural resources; teaching, research; or other related professional activities; business or government agencies providing services related to environmental and natural resources management; and as preparation for graduate studies or for advanced professional training. Examples of careers for graduates include environmental consultants, educators, communicators, plant physiologists, agricultural and food scientists, researchers, social and environmental impact analysts, resource planners, naturalists, ecologists, environmentalists, managers of wildlife, parks, forests and rangelands, conservation officers, nature center directors, aquatic ecologists, resource policy analysts, forest economists, watershed managers, soil conservationists, lobbyists, plant nutrient consultants, and technical sales representatives.

Practicing professionals in the Environmental Sciences Program at SIUE currently lend their expertise to the current two graduate programs in Environmental Sciences (MS) and Environmental Science Management (PSM). The faculty will continue to do so for the undergraduate program to ensure that the students realize the connection between their education and potential career opportunities. Additionally, a close relationship will continue to be maintained among industries, environmental organizations, and governmental agencies so that students can incorporate real-world issues in their studies.

**Degree Programs**

Bachelor of Arts in Environmental Science Specializations in the following:
- Environmental Health
- Environmental Toxicology
- Environmental Management

Bachelor of Science in Environmental Sciences Specializations in the following:
- Environmental Health
- Environmental Toxicology
- Environmental Management

**Program Overview and General Department Information**

**Admission**

The program’s admission and prerequisite are consistent with the university’s criteria. High school students who plan to major in one of the specializations in Environmental Sciences should complete at least three years of college preparatory mathematics (two years of algebra and one year of geometry), and one year each of chemistry and biology before entering the University. A fourth year of college preparatory mathematics (to include trigonometry) is strongly recommended.

Admission into the Environmental Sciences undergraduate program requires an application to declare a major. At the time of declaration students must select one of the three specializations and select a potential minor. Students may apply after they have completed their freshman year (or >29 units). To be accepted into the program students must have a cumulative GPA of 2.0 or greater, or approval of the program’s Admissions Committee.

Transfer students follow the same procedures of admission and must meet the same criteria. Students who wish to be admitted with prerequisite course credits transferred from elsewhere must submit the following: (1) application, (2) official transcripts, and (3) course descriptions or syllabi (to ensure articulation agreements). This applies to both major and general education courses. A student who plans to take one or more classes from another institution and apply that credit to a SIUE degree should obtain prior approval for the courses from his/her academic advisor, to ensure the course is acceptable for program credit.

All international applicants are required to take either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) to demonstrate English proficiency. The TOEFL or IELTS must be taken within two years before the term for which admission is sought. Score requirements are: TOEFL 79 or higher on the Internet Based Test; 550 or higher on the Paper Test; IELTS: Overall band score of 6.5 or higher.

To declare for the undergraduate major in environmental sciences, students need to contact the Environmental Sciences Program Office to schedule an initial advising appointment. The Program Director/delegate will assist students with their paperwork.
General Education Requirements for the Major

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements all Environmental Sciences majors are required to complete the following:

Bachelor of Science or Bachelor of Arts in Environmental Sciences with

Specialization in Environmental Health

ACS 101 ECON 111 POLS 497 ENSC 125
ENSC 220 ENSC 220L ENSC 325A ENSC 431
ENSC 431L ENSC 436 ENSC 490 ENSC 497
ENSC 498 ENSC 491 or ENSC 499

Plus three from the following:
ENSC 325B ENSC 411 ENSC 437 ENSC 473
ENSC 475 ENSC 477

Biology (complete one of two options):
BIOL 150, 151, 220, and BIOL 319 or BIOL 350
or
BIOL 140, 240A, 240B, and 250

Chemistry (complete one of two options):
CHEM 121A, 121B, 125A, 125B, 241A, 241B, 245
or
CHEM 120A, 120B, 124A, 124B, 241A, 241B, 245

Interdisciplinary Studies (Choose one):
IS 322 IS 334 IS 336 IS 363
IS 375

Mathematics
MATH 145 or MATH 150
MATH 152 (recommended, but not required)

Physics
PHYS 131A, 131B or PHYS 151, 151L, 152, 152L

Statistics
STAT 244 or 380

Bachelor of Science or Bachelor of Arts in Environmental Sciences with

Specialization in Environmental Toxicology

ACS 101 ECON 111 POLS 497 ENSC 125
ENSC 220 ENSC 220L ENSC 325A ENSC 325B
ENSC 330 ENSC 431 ENSC 431L ENSC 436
ENSC 490 ENSC 498 ENSC 499

Plus two from the following:
ENSC 432 ENSC 434 ENSC 450 ENSC 475

Biology:
BIOL 150 BIOL 151 BIOL 220
BIOL 365 or BIOL 461 or BIOL 463 or BIOL 480

Chemistry:
CHEM 241A CHEM 241B CHEM 121A, 121B, 125A,
125B; or CHEM 120A, 120B, 124A, 124B

Geography:
GEOG 202 GEOG 418

Interdisciplinary Studies (Choose one):
IS 322 IS 334 IS 336 IS 363
IS 375

Mathematics
MATH 145 or MATH 150
MATH 152 (recommended, but not required)

Physics
PHYS 131A, 131B or PHYS 151, 151L, 152, 152L

Statistics
STAT 244 or 380

Note: Enrollment in CHEM 241A/B requires a minimum grade of B or higher in CHEM 120/124.
### Sample Curriculum for the Bachelor of Science in Environmental Sciences - Environmental Health

#### Fall Semester

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### Sample Curriculum for the Bachelor of Science in Environmental Sciences - Environmental Management

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## Sample Curriculum for the Bachelor of Science in Environmental Sciences - Environmental Management cont.

### Fall Semester

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## Sample Curriculum for the Bachelor of Science in Environmental Sciences - Environmental Toxicology

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<tr>
<td>RA 101 Reasoning &amp; Argumentation (FRA)</td>
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<td>ENSC 325B Toxicants in the Environment</td>
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<td>IS 399 Environmental and Social Justice</td>
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<td>ENSC 435 Ecological Risk Assessment</td>
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<td>ENSC 490 Senior Assignment</td>
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<td>ENSC Elective Course (432, 434, 435, 437, 475)</td>
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</table>
Minor in Environmental Sciences
The Environmental Sciences Program offers an undergraduate minor in environmental sciences. The undergraduate minor will increase students’ technical competence in addressing and analyzing environmental issues, their origins, ramifications, and resolutions. The Environmental Sciences Program at SIUE is designed to enhance and promote multidisciplinary education while providing students with career opportunities in a wide area of interests.

Faculty from several departments in the College of Arts and Sciences provide mentoring, direction, and instruction. Practicing professionals also lend their expertise to the program. A close relationship is maintained with industries and environmental agencies so that students and faculty members can incorporate real-world issues into their studies.

Students must apply for and be accepted into the minor program in environmental sciences. The minimum requirement for admission is a cumulative GPA of 2.5.

Minor Requirements
To satisfy the minor requirements, students must take and complete the following 17 units of courses while maintaining a minimum cumulative GPA of 2.5:

- ENSC 120 – Survey of Environmental Sciences (fall)
- ENSC 210 – Applied Research Methods (spring)
- ENSC 220 – Principles of Environmental Sciences (fall/spring/summer)
- ENSC 220L - Principles of Environmental Sciences Lab (fall/spring/summer)
- ENSC 330 – Environmental Health and Waste Management (spring)
- ENSC 340 – Ecosystem Management and Sustainability (fall)
- ENSC 402 – Environmental Law (fall)

Graduation Requirements
In order to earn a BS/BA degree in Environmental Sciences the following conditions must be met:

- Earn a minimum of 120 hours of acceptable credit with a cumulative grade point average of 2.0 or higher;
- Complete the minimum number of credit hours required for the particular specialization;
- Complete at least 12 hours of SIUE credit in major courses numbered above 299 with a cumulative grade point average of 2.0 or higher;
- Earn a grade of C or better in all required major courses;
- Earn a cumulative grade point average of 2.0 or higher in major courses; and
- Complete at least 6 hours of credit in major courses numbered above 299 within 2 years preceding graduation.

Foreign Languages and Literature
Peck Hall, Room 2310
siue.edu/artandsciences/fll

Professors
Carstens-Wickham, Belinda, Ph.D., 1980,
University of North Carolina, Chapel Hill
Mann, Joan, D. Ph.D., 1987,
University of Florida
Pallemans, Geert, Ph.D., 1992,
Florida State University

Associate Professors
Bezhanova, Olga, Ph.D., 2008,
Yale University
Florido Berrocal, Joaquin, Ph.D., 2009,
Johns Hopkins University
Lavallee, Thomas, Ph.D., 2004,
Washington University
Rocha, Carolina, Ph.D., 2001,
University of Texas, Austin
Solares, Mariana, Ph.D, 1997,
University of California, Irvine

Assistant Professors
Carruthers, Heidy, Ph.D., 2013,
Southern Illinois University Carbondale

Program Description
Studying another language opens a whole new world of opportunity. Learning the language of another country gives you the opportunity to understand people who, on the surface, may seem different from you. In fact, if you could understand them, you might find that they are more similar to you than you realize. While some people mistakenly believe that “everyone speaks English,” obviously this statement is not true. To be sure, millions of people throughout the world may have a superficial knowledge of English, which allows for limited and rudimentary communication. However, in order to truly gain insight into different cultures, to develop intercultural understanding, to be able to sensitively handle issues concerning diversity, it is essential to learn a foreign
language. It prepares you to be successful in the global marketplace. It enables you to visit another country and communicate with its citizens. It increases your global understanding and your ability to contribute to world peace. It gives you the opportunity to enjoy and appreciate ethnic festivals and celebrations in your home country and abroad. Ultimately, it gives you the ability to enrich your life by increasing your exposure to and appreciation for all the other “worlds” out there.

**Career Opportunities**

The global awareness and cultural understanding acquired through learning a second language will serve students well in the 21st century. College graduates with knowledge of one or more foreign languages will enjoy a competitive edge in the multicultural workforce in most professions in the United States, in most branches of the federal government, and in teaching at all levels. They also will find rewarding careers in international business, including import and export trade, translator, and consultant positions. Salaries are competitive, and travel opportunities often are an exciting job benefit.

**Admission**

Students wishing to declare a major must satisfy the following requirements:

- Complete all Academic Development courses required by the University.
- Complete any required courses to address high school deficiencies.
- Achieve a cumulative grade point average of at least 2.0 in courses completed at SIUE.

**Retention**

Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation, returned to undeclared status and limited to a maximum of 12 hours of enrollment per term.

**Transfer**

Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet.

For more information about transfer, please visit [siue.edu/transfer](http://siue.edu/transfer).

**Courses Offered by the Department**

The Department of Foreign Languages and Literature at SIUE offers graduate and undergraduate courses dealing with the language, literature, culture, and history of many countries. We currently offer courses in 9 (nine) different world languages:

- Arabic
- Chinese
- French
- German
- Greek
- Italian
- Latin
- Spanish
- Yoruba

These courses are taught in the target language and represent very important world languages, including the following critical languages — Arabic and Chinese, — as well as a widely spoken African language, Yoruba. Arabic and Yoruba are currently taught by visiting Fulbright scholars. In addition, students can undertake a full course of study in French, German, or Spanish. Beginning and intermediate courses are also available in Italian.

**Majors are offered in the following languages:**

- French
- German
- Spanish

**Minors are offered in the following languages:**

- French
- German
- Spanish

**A focus is offered in the following languages:**

- Chinese
- French
- German
- Spanish

**Interdisciplinary minors are offered in the following academic areas:**

- Latin American Studies

Furthermore, the department participates in the International Business major, and students may also combine their language training with a teaching degree in secondary education, working closely with SIUE’s School
of Education. All students enrolled in foreign language courses have the opportunity to practice their language skills in our state-of-the-art Foreign Languages Training Center (language lab), where they will have access to online texts, workbooks, and ancillary materials and information in the target language, along with movies, DVDs, CDs, and satellite feeds in the various languages taught in our department.

Our majors and minors have access to excellent study-abroad opportunities throughout the world, which they can pursue with the assistance and guidance of the International Affairs Office. Many students participate in weekly conversation hours conducted in the target languages.

**Proficiency & Placement**

All incoming students with one year or more of high school foreign language study are encouraged to take a placement test prior to enrolling in any course in that same language at SIUE. There is no charge for the test, and students may earn up to 16 hours of proficiency credit in accordance with University and departmental policies. These credits can give you a head start on a major or minor in a world language by starting at a more advanced level, assist you in a double major, or help you complete your major or minor early. Please contact the department for more information.

**Degree Programs**

Bachelor of Arts or Bachelor of Science, Foreign Language & Literature

Specialization required in one of the following:

- French
- German
- Spanish

**Professional Educator Licensure (K-12)**

It is strongly recommended that students who choose a language major also select an additional major or minor concentration in another discipline. Such a combination will enhance students’ educational and employment opportunities.

**General Education Requirements**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

**Degree Requirements**

**French and German Majors**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>FL 111a,b</td>
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</tr>
<tr>
<td>FR/GER 201</td>
<td></td>
</tr>
<tr>
<td>FR/GER 202</td>
<td></td>
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<tr>
<td>FR/GER 301</td>
<td></td>
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<tr>
<td>FR/GER 351</td>
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<tr>
<td>FR/GER 352</td>
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<tr>
<td>FR/GER 400a,b</td>
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300-400 level elective courses (12 hours)

**Spanish Major**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>SPAN 201</td>
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<td>SPAN 202</td>
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<tr>
<td>SPAN 301</td>
<td></td>
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<tr>
<td>SPAN 302</td>
<td></td>
</tr>
<tr>
<td>SPAN 400</td>
<td></td>
</tr>
</tbody>
</table>

300-400 level elective courses (18 hours)

Advanced electives will normally include at least two courses in culture and two in literature. 400 is usually taken during the last semester of major course work.

**Teacher Licensure (K-12) Program**

Students seeking teacher licensure (K-12) will complete the following in addition to major requirements:

- FL 486 Professional Education Courses
- SPAN 308 (for Spanish majors only) Illinois State Licensure Requirements

In addition, all foreign language students seeking teaching licensure must take the OPI (Oral Proficiency Interview) as required by NCATE / ACTFL and obtain a minimum proficiency level of “Advanced Low” in order to be approved to student teach.

Note: A “B” (3.0) average in the major is required for teacher licensure (K-12). In order to register for student teaching in foreign languages (CI 352g), students must successfully complete a student teaching interview.

**Requirements for students seeking Professional Educator Licensure**

Admission to a teacher education program is a joint decision by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to the teacher education program, as soon as they know they would like to pursue this option. Scheduling required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing the Professional Educator License.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, so the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website http://www.siue.edu/education/, and by making an appointment with a School of Education Health and Human Behavior advisor.

**Minor Requirements**

A minor in French, German, or Spanish consists of the following courses (21 hours):

- French and German Minors FL 111a, b, "", 201"; 202"; 301. Plus 6 hours of electives at the 300-400 level.
### Focus Requirements
A focus in Chinese consists of the following five required courses and one elective (22 hours): 101**, 102**, 201, 202, FL111d**, plus 3 hours of electives at the 300-400 level. **Satisfies requirements for general education.

A focus in French, German, or Spanish consists of the following three required courses and one elective (15): 201, 202, 301 plus 3 hours of electives at the 300-400 level.

### Sample Curriculum for the Bachelor of Arts – Foreign Languages and Literature: French

#### Fall Semester

<table>
<thead>
<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td>FR 101 – Elementary French I (BICS)</td>
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<tr>
<td>ENG 101 – English Composition I</td>
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<td>3</td>
</tr>
<tr>
<td>FL 111a or FL 111e – Intro to Foreign Studies (BHAM)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
<td></td>
<td>3</td>
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<tr>
<td>ACS 101 or 103 - Oral Expression</td>
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<tbody>
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<td>Breadth Life Science (BLS)</td>
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<td>Elective</td>
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<td>Health Experience (EH)</td>
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<tr>
<td>Experience Lab (EL)</td>
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<td>Interdisciplinary Studies (IS)</td>
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<td>Experience United States Cultures (EUSC)</td>
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### Sample Curriculum for the Bachelor of Arts/Science – Foreign Languages and Literature: French – Teacher Licensure (K-12)

#### Fall Semester

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<td>FR 101 Elementary French I (BICS)</td>
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<td>ENG 101 English Composition I</td>
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<td>FL 111a or FL 111e Intro to Foreign Studies (BHAM)</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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#### Spring Semester

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<td>QR 101 - Quantitative Reasoning</td>
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<tr>
<td>Life, Physical or Social Science-BS</td>
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### Sample Curriculum for the Bachelor of Arts/Science - Foreign Languages and Literature: French – Teacher Licensure (K-12) cont.

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td>Breadth Life Science (BLS) .................. 3</td>
<td>CIED 100 – Introduction to Education ........ 3</td>
</tr>
<tr>
<td>Breadth Social Sciences (BSS)/Experience United States Culture (EUSC) .......... 3</td>
<td>Breadth Physical Science (BPS) ................. 3</td>
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<td>Life, Physical or Social Science with a lab (EL) .... 3</td>
<td>Life, Physical or Social Science-BS .......... 3</td>
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<td><strong>Total</strong> .......... 13</td>
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<td>FR 351 – Survey of French Literature (BHUM) ..................................................................... 3</td>
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<td>French Elective (300-400 level) .......... 3</td>
<td>French Elective (300-400 level) .............. 3</td>
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<td>SPE 400 – The Exceptional Child ........... 3</td>
<td>EPFR 315 – Educational Psychology .............. 3</td>
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<td>Life, Physical or Social Science with a lab (EL)-BS .......... 3</td>
<td>Interdisciplinary Studies (IS) .............. 3</td>
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<td><strong>Total</strong> .......... 16</td>
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<tr>
<td><strong>Year 4</strong></td>
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<td>FR 400a – Senior Essay ....................... 2</td>
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<td>CI 315b – Methods of Teaching in the Secondary School .................. 2</td>
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<td>CI 315a – Methods of Teaching in the Secondary School .......... 2</td>
<td>CI 352g Student Teaching ....................... 10</td>
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<td>CIED 323 – Adolescent Content Literacy ........ 3</td>
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<td>EPFR 320 – Foundations of Education in a Multicultural Society .................. 3</td>
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### Sample Curriculum for the Bachelor of Arts – Foreign Languages and Literature: German

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<tr>
<td>GER 101 – Elementary German I (BICS) .......... 4</td>
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<td>ENG 101 – English Composition I .................. 3</td>
<td>ENG 102 – English Composition II .................. 3</td>
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<td>QR 101 - Quantitative Reasoning ................. 3</td>
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<td>Experience United States Cultures (EUSC) .......... 3</td>
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<td>Experience Lab (EL) ................... 3</td>
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<td>GER 400b – Senior Essay</td>
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### Sample Curriculum for the Bachelor of Arts – Foreign Languages and Literature: Spanish

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#### Spring Semester

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### Sample Curriculum for the Bachelor of Art – Foreign Languages and Literature: Spanish – Teacher Licensure (K-12)

#### Fall Semester

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<td>Breadth Social Science (BSS, EUSC)</td>
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Sample Curriculum for the Bachelor of Art – Foreign Languages and Literature: Spanish – Teacher Licensure (K-12) cont.

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<td><strong>SPAN 400 – Senior Essay</strong> .................................................. 3</td>
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*Choose from SPAN 311, 312, 320, 351, 352.

Sample Curriculum for the Bachelor of Science – Foreign Languages and Literature: Spanish – Professional Educator Licensure (K-12)

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<td><strong>Breadth Fine &amp; Performing Arts (BFPA)</strong> ........................................ 3</td>
<td><strong>Breadth Social Science (BSS, EUSC)</strong> ........................................ 3</td>
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<td><strong>FL 111c Introduction to Foreign Studies Spanish (BHUM)</strong> .................. 3</td>
<td><strong>Life, Physical or Social Science (BPS)</strong> .................................... 3</td>
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Sample Curriculum for the Bachelor of Science – Foreign Languages and Literature: Spanish – Teacher Licensure (K-12) cont.

Year 4
SPAN 400 – Senior Essay ........................................ 3
FL 486 - Language Learning & Training Foreign Language ................................. 3
CI 315a – Methods Teaching in the Secondary School .................................. 2
CIED 323 – Adolescent Content Literacy ........................................ 3
SPE 400 - The Exceptional Child ........................................ 3
Total ....................................................................... 14

*Choose from SPAN 311, 312, 320, 351, 352.

Graduation Requirements
For majors and minors in the Department of Foreign Languages and Literature, credit is allowed for only those courses in which grades of C or better are earned. A “B” (3.0) average in the major is required for teacher licensure (K-12).

Assistant Professors
Martinez, Adriana, Ph.D., 2013,
University of Oregon
Shouse, Michael, Ph.D., 2014,
University of Kentucky

Program Description
The Department of Geography offers the bachelor of science and the bachelor of arts degrees in geography. A degree in geography requires a minimum grade of C in courses completed for the major.

Geography stresses the spatial analysis of human activities and their relationships with the environment. While geography is one of the most time-honored disciplines reflecting curiosity about people and places, it is also an applied discipline that offers insights about present and future issues, involving environment, culture, society, economy, and politics.

The breadth of geographic inquiry accommodates students who have broad interests and goals. Areas of emphasis include human-environment interaction, cartography/geographic information systems, physical geography, economic geography, cultural geography and urban geography.

Geography majors are encouraged to consult with geography faculty and should consider using elective hours to expand a particular area of interest. For example, human geographers can develop an area of specialization in urban studies or cultural landscapes while physical geographers should consider a minor or an area of specialization in the physical sciences; students interested in cartography and/or geospatial techniques might consider a minor in Geographic Information Systems (GIS) or a minor in mathematics.
Career Opportunities
A geographer with a bachelor’s degree has opportunities for employment in a wide variety of businesses and public organizations. Geography graduates have found employment as planners, environmental analysts, locational and industrial development analysts, cartographers, foreign service and intelligence officers, geographic information systems and image processing specialists, historic preservation specialists, and teachers at the elementary or secondary school level. The program also prepares students to continue their geographic studies at the graduate level, which may provide additional professional opportunities as well as the opportunity to teach in community colleges and universities.

Admission
To declare a major in Geography, students must satisfy the following requirements:
- Complete all Academic Development courses required by the University.
- Complete any required courses to address high school deficiencies.
- Achieve a cumulative grade point average of at least 2.0 in courses completed at SIUE.

Retention
Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation, returned to undeclared status and limited to a maximum of 12 hours of enrollment per semester.

Transfer
Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information about transfer, please visit www.siu.edu/transfer.

Degree Programs
Bachelor of Arts, Geography
Bachelor of Science, Geography
Professional Educator Licensure (9-12) option

Minors
Geographic Information Systems
Geography (for non-Geography majors)
Meteorology and Climatology

Degree Requirements
General Education Requirements
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

Geography Core Requirements (36 hours)
GEOG 205 – Human Geography
GEOG 210 – Physical Geography
GEOG 201 – World Regions
GEOG 320 – Cartography
GEOG 321 – Quantitative Techniques
Two human geography courses, after completing GEOG 205, from among the following: 300, 301, 303, 401, 402, 403, 404, 405, 406, 407, 451
Two physical geography courses, after completing GEOG 210, from among the following: 310, 312, 314, 315, 316, 408, 410, 411, 412, 413, 414, 415, 416, 417, 429, 430, 452
One regional geography course, after completing GEOG 201, from among the following: 330, 331, 332, 333, 334, 335, 453
One geography techniques course, after completing GEOG 320, from among the following: 322, 418, 419, 420, 421, 422, 423, 424, 425, 454
GEOG 499 Senior Assignment is completed over a two-semester period. A grade of DE (deferred) is assigned at the end of the first semester.

Minor or Area of Specialization (18 hours)
Geography majors must complete either an existing minor or an area of specialization option. The area of specialization option is designed to give students an opportunity to further explore the breadth and depth of geography and related disciplines, and consists of 18 hours of coursework beyond the major. The area of specialization may include courses from a variety of departments, including geography (courses must be in addition to all major requirements), and it must be designed in consultation with a geography faculty member and approved by the department chair. All courses taken as part of an area of specialization require a minimum grade of C.

Geography majors can minor in Geographic Information Systems and/or Meteorology and Climatology, however, Geography majors cannot minor in Geography.

Electives (22-24 hours)
Requirements for students seeking Professional Educator Licensure
Geography majors who intend to teach at the secondary level complete the bachelor of science degree with a major in geography. The major constitutes the teaching field of concentration. In addition, students pursuing
teacher licensure must complete the strong minor in Social Science Education (see the sample curriculum below).

Admission to a professional education courses is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website http://www.stie.edu/education/, and by making an appointment with a School of Education Health and Human Behavior advisor.

### Sample Curriculum for the Bachelor of Arts in Geography

#### Fall Semester

| Year 1 | ENG 101 – Composition | 3 |
| Year 1 | ESCI 111 – Introduction to Physical Geology & Geography | 3 |
| Year 1 | Foreign Language 101 (BICS) | 4 |
| Year 1 | ACS 101 or 103 - Oral Expression | 3 |
| Year 1 | Breadth Fine & Performing Arts (BFPA) | 3 |
| Year 1 | Total | 16 |

| Year 2 | GEOG 210 – Physical Geography (BPS) | 3 |
| Year 2 | GEOG 206 – Human Geography (BSS) | 3 |
| Year 2 | Breadth Humanities (BHUM) | 3 |
| Year 2 | Minor or AOS | 3 |
| Year 2 | Health Experience (EH) | 3 |
| Year 2 | Total | 15 |

| Year 3 | GEOG 320 – Cartography | 3 |
| Year 3 | Human Geography Requirement | 3 |
| Year 3 | Fine & Performing Arts or Humanities | 3 |
| Year 3 | Minor or AOS | 3 |
| Year 3 | Experience United States Cultures (EUSC) | 3 |
| Year 3 | Total | 15 |

| Year 4 | Physical Geography Requirement | 3 |
| Year 4 | Regional Geography Requirement | 3 |
| Year 4 | Breadth Life Science (BLS) | 3 |
| Year 4 | Fine & Performing Arts or Humanities | 3 |
| Year 4 | Electives | 2 |
| Year 4 | Total | 14 |

#### Spring Semester

| Year 1 | GEOG 201 – World Regions (BSS, EGC) | 3 |
| Year 1 | ENG 102 – Composition | 3 |
| Year 1 | Foreign Language 102 (EGC) | 4 |
| Year 1 | RA 101 or PHIL 212 | 3 |
| Year 1 | Total | 16 |

| Year 2 | Human Geography Requirement | 3 |
| Year 2 | GEOG 321 – Quantitative Techniques (BICS, EL) | 3 |
| Year 2 | Fine & Performing Arts or Humanities | 3 |
| Year 2 | Minor or AOS | 3 |
| Year 2 | Total | 15 |

| Year 3 | Physical Geography Requirement | 3 |
| Year 3 | Interdisciplinary Studies (IS) | 3 |
| Year 3 | Minor or AOS | 3 |
| Year 3 | Minor or AOS | 3 |
| Year 3 | Fine & Performing Arts or Humanities | 3 |
| Year 3 | Total | 15 |

| Year 4 | GEOG 499 – Senior Project | 3 |
| Year 4 | Geography Techniques Requirement | 3 |
| Year 4 | Electives | 8 |
| Year 4 | Total | 14 |
### Sample Curriculum for the Bachelor of Science in Geography

#### Fall Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>1</td>
<td>ENG 101</td>
<td>Composition</td>
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<tr>
<td></td>
<td>ESCI 111</td>
<td>Intro to Physical Geology &amp; Geography</td>
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<td>RA 101</td>
<td>Reasoning &amp; Argumentation</td>
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<td></td>
<td>ACS 101 or 103</td>
<td>Oral Expression</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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#### Spring Semester

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<tr>
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<td>ENG 102</td>
<td>Composition</td>
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<td>Breadth Life Science (BLS)</td>
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<td>HIST 112A</td>
<td>World History to 1500 (BHUM, EGC)</td>
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<td>GEOG 210</td>
<td>Physical Geography (BPS)</td>
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<td>World History, 1500 to Present (BHUM, EGC)</td>
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<td>Breadth Life Science (BLS)</td>
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#### Year 4

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#### Sample Curriculum for the Bachelor of Science* in Geography, Teacher Licensure (6-12)

#### Fall Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tr>
<td>1</td>
<td>ENG 101</td>
<td>Composition</td>
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<tr>
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<td>ESCI 111</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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<td>Total</td>
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#### Spring Semester

<table>
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<tr>
<th>Year</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
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<tbody>
<tr>
<td>1</td>
<td>ANTH 111B</td>
<td>Human Culture &amp; Communication</td>
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<tr>
<td></td>
<td>ENG 102</td>
<td>Composition</td>
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<td>POLS 111</td>
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<td>SOC 111</td>
<td>Intro to Sociology (BSS)</td>
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#### Year 2

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<tbody>
<tr>
<td>GEOG 205</td>
<td>Human Geography (BSS, EL)</td>
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<td>GEOG 321</td>
<td>Quantitative Techniques (BICS, EL)</td>
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#### Year 3

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#### Year 4

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<tbody>
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<td>GEOG 205</td>
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Sample Curriculum for the Bachelor of Science* in Geography, Teacher Licensure (6-12) cont.

**Fall Semester**

<table>
<thead>
<tr>
<th>Year 3</th>
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<tbody>
<tr>
<td>GEOG 301 (Human Geography Requirement)</td>
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<tr>
<td>CIED 100 – Introduction to Education</td>
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<tr>
<td>ECON 112 – Principles of Microeconomics (BSS)</td>
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<tr>
<td>HIST 323 – History/Pedagogy or GEOG 440 Teaching of Geography</td>
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<tr>
<td>Human Geography Requirement</td>
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</table>

Complete ILTS Test of Academic Proficiency (formerly the Basic Skills Test) for admission to the Teacher Licensure Program

**Year 4**

| CI 315a – Methods of Teaching in the Secondary School | 2 |
| CIED 323 – Adolescent Content Literacy | 3 |
| EPFR 320 – Foundations of Education in a Multicultural Society | 3 |
| Interdisciplinary Studies (IS) | 3 |
| Physical Geography Requirement | 6 |
| **Total** | **17** |

**Spring Semester**

<table>
<thead>
<tr>
<th>Year 3</th>
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<tbody>
<tr>
<td>Geography Techniques Requirement</td>
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<tr>
<td>EPFR 315 – Educational Psychology</td>
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<tr>
<td>Choice of one POLS course</td>
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<tr>
<td>SPE 400 The Exceptional Child</td>
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<tr>
<td>Regional Geography Requirement</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 499 – Senior Project</td>
</tr>
<tr>
<td>CI 315b – Methods of Teaching in the Secondary School</td>
</tr>
<tr>
<td>CI 352 – Student Teaching – Secondary</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

A student who wishes to earn a B.A. degree in Geography will complete two semesters of the same foreign language and three additional courses in fine and performing arts or humanities.

**Graduation Requirements**

- Complete all specific program requirements.
  - A minimum grade of C is required in courses completed for the major.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - Bachelor of Arts only: a two-semester sequence of the same foreign language
- File an Application for Graduation by the first day of the term in which you plan to graduate.

**Minor in Geography (for non-Geography majors)**

The minor in geography requires that students take 18 credits consisting of courses at the 200 level or above. The student is required to take one human course, one physical course, and one regional course for a total of 9 credits. The remaining 9 credits in geography may be taken as electives. A minimum grade of C is required in courses completed for the minor. The courses should be selected in consultation with an undergraduate advisor in geography.

**Graduation Requirements**

To earn a minor in Geography, students must complete 18 credit hours in Geography courses. A grade of C or better must be achieved in all Minor coursework. Students must complete all University requirements.

**Geographic Information Systems (GIS) Minor**

The GIS minor develops knowledge and skills related to the application of Geographic Information Systems for mapping and analyzing spatial data. Since GIS has evolved into an invaluable technology that is being used extensively by geographers, environmental scientists, biologists, climatologists, epidemiologists, transportation planners, engineers, and business strategists, a minor in GIS would be an ideal supplement to many different programs of study (e.g., biology, criminal justice, anthropology, geography, political science).

The minor in GIS is comprised of 18 credit hours. Students must earn a letter grade of C or better for all minor coursework. The minor is open to students from any major, however
the specific course requirements for Geography majors are different than those for non-Geography majors, as described below.

GIS Minor Requirements for Geography Majors:
Students majoring in geography must complete 9 credit hours of required coursework and at least 9 credit hours of electives. (Please note that majors must complete an additional 300- or 400-level course to fulfill the techniques requirement for the major.)

Required Courses: GEOG 418, GEOG 422, GEOG 424

Electives: 9 credit hours selected from the list below or with the approval of the GIS coordinator

GIS Minor Requirements for All Other Majors:
Students not majoring in geography must complete 12 credit hours of required coursework and at least 6 credit hours of elective coursework.

Required courses: GEOG 320, GEOG 418, GEOG 422, GEOG 424

Electives: 6 credit hours selected from the list below or with the approval of the GIS coordinator

Elective courses include the following: GEOG 322, GEOG 419, GEOG 420, GEOG 421, GEOG 423, GEOG 425, GEOG 427 (GIS-related only), GEOG 454 (GIS-topics only)

Other courses not listed here may be used as electives toward the minor with the approval of the GIS Coordinator.

Graduation Requirements
To earn a minor in GIS, students must complete 18 credit hours as described above. A grade of C or better must be achieved in all Minor coursework. Students must complete all University requirements.

Minor in Meteorology and Climatology
Weather and climate are central components of the physical environment, playing important roles in a wide range of human activities and natural processes. This minor provides an overview of the physical processes that control both past and present-day weather and climate change throughout geological time, and allows students to study the linkages between the Earth-Atmosphere system and human development, food and water resources, and disease.

The minor in Meteorology and Climatology requires that students take 18 credit hours as follows. Students must complete 6 hours of Core Required Courses in Meteorology and Climatology; 6 credits in Advanced Topics in Meteorology and Climatology; and 6 credits of Electives split between human geography and applied spatial analysis. A minimum grade of C is required in courses completed for the minor. Geography majors pursuing the minor in Meteorology and Climatology cannot count the same classes for their major and their minor. The courses should be selected in consultation with the Meteorology and Climatology Coordinator.

Requirements:
Core Required Courses
GEOG 211 - Meteorology
GEOG 314 - Climatology

Advanced Topics in Meteorology and Climatology*
At least two of the following:
GEOG 202 - Resource Use and Management
GEOG 316 - Introduction to Biogeography
GEOG 408 - Snow and Ice Processes
GEOG 411 - Hydrology
GEOG 414 - Floods, Climate and the Environment
GEOG 427 - Internship
GEOG 429 - Storm Chasing and Assessment
GEOG 430 - Global Climate Change
GEOG 452 - Topics in Physical Geography

Elective Courses
At least one of the following:
GEOG 401 - Geography of Development
GEOG 403 - Advanced Urban Geography
GEOG 405 - Geography of Food
GEOG 451 - Topics in Human Geography
At least one of the following:
GEOG 418 - Introduction to G.I.S.
GEOG 422 - Remote Sensing
GEOG 424 - Vector-based G.I.S.
GEOG 425 - Raster-based G.I.S.
GEOG 454 - Topics in Geographic Techniques
*Non-geography electives may be considered.

Graduation Requirements
To earn a minor in Meteorology and Climatology, students must complete 18 credit hours as described above. A grade of C or better must be achieved in all Minor coursework. Students must complete all University requirements.
Historical Studies
Peck Hall 3225
siue.edu/artsandsciences/historicalstudies/

Professors
Frick, Carole C. (Chair), Ph.D., 1995,
University of California - Los Angeles
McClinton, Rowena, Ph.D. 1996,
University of Kentucky
Thomason, Allison K., Ph.D., 1999, Columbia University

Associate Professors
Cheeseboro, Anthony Q., Ph.D., 1993,
Michigan State University
Fowler, Laura L., Ph.D., 2003,
Loyola University
Hinz, Christienne, Ph.D., 2001,
The Ohio State University
Jordan, Thomas, Ph.D. 2000,
University of Illinois - Urbana-Champaign
Miller, Jennifer, Ph.D., 2008,
Rutgers
Paulett, Robert, Ph.D., 2007,
College of William & Mary
Stacy, Jason, Ph.D., 2005,
Loyola University Chicago
Tamari, Stephen L., Ph.D., 1998,
Georgetown University

Assistant Professors
Alexander, Erik, Ph.D., 2011,
University of Virginia
Harris, Jessica, Ph.D., 2011,
Cornell University
Jack, Bryan, Ph.D., 2004,
Saint Louis University
Manuel, Jeffrey T., Ph.D., 2009,
University of Minnesota

Instructors
Harrison, Victoria, Ph.D. 2007,
Saint Louis University

Program Description
The study of history begins with questions about how things came to be as they are or were; these questions contribute to a greater understanding of ourselves and others.

Historians approach the study of the past in many ways. Some attempt to analyze the entire spectrum of historical evolution within a particular period or within a specific nation. Others, working within or across national histories, specialize in the history of particular social institutions, such as the family, business or churches, or the historical development of ideologies or of cultural concepts such as race or gender. Historians borrow tools freely from other disciplines. For some historians, the methodologies of the social sciences become critical tools for the study of the past, while others prefer a historical approach more akin to the methods of the humanities and literature. Most adopt some mixture of methodologies.

Some historians argue that studying the past brings them to a better understanding of the present. For them, the past provides useful insights into the current behavior of individuals and institutions. Others stress the uniqueness of every historical situation and are less prone to seek lessons in the past. Most historians contend that the discipline does give students of history a breadth of perspective that improves their ability to understand events and to function in today’s world.

Students applying for a major in any history program must have completed the general education requirements for writing skills (English 101 and 102 or equivalent) and all high school course deficiencies. Students should arrange an interview with the undergraduate advisor in history as soon as possible after applying for a major.

Career Opportunities
Traditionally a bachelor’s degree in Historical Studies has been a tool for two careers: one in teaching; the second being a foundation for attending law school. Additionally, Historical Studies has also been the foundation for careers in archives, museums, and historic preservation; those fields are collectively known as applied history. It is also very important to understand that history is a discipline that provides good students with great writing, research, and critical thinking skills.

These skills allow a motivated person to pursue a wide variety of career paths. There are numerous examples of people who become everything from corporate CEOs to CIA field managers, to Army Generals, who started with Bachelor’s degrees in history.

As for specific training, Historical Studies offers social science education for secondary school teaching careers, and a certificate of Museum Studies for careers in applied history.

Requirements for students seeking Professional Educator Licensure
Admission to a professional education courses
is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website [http://www.siue.edu/education/], and by making an appointment with a School of Education Health and Human Behavior advisor.

For more information on gainful employment programs at SIUE, please visit [www.siue.edu/financialaid/certificate-programs2014.shtml].

**Degree Programs**

**Bachelor of Arts, History**

Specialization in Applied Historical Methods

**Bachelor of Science, History**

Specialization in Applied Historical Methods

Professional Educator Licensure (9-12) option

The Department of Historical Studies has two options within its bachelor’s degree program. One, the Bachelor of Arts degree, is often the first step in preparation for a career as a professional historian. It is also excellent preparation for the study of law or for many other kinds of professional training. The other, the Bachelor of Science degree, may be preferred by students contemplating careers in the business world, government service, and journalism and editing.

The specialization in applied historical methods is available to students pursuing work in museums, archives, national parks and monuments or other venues where the skills of a person trained in historical analysis are required. To prepare students for this sort of work, the specialization in applied historical methods requires students to complete several courses on applied historical skills and complete an internship.

Finally, students planning to teach in public schools may choose either a bachelor of arts or a bachelor of science degree with a major in history. Any of these programs provides an opportunity for students to study subjects of great interest while developing skills that prepare them for a variety of career options. The bachelor of science degree program is identical to the bachelor of arts degree program, except students are not required to study a foreign language. A foreign language is strongly recommended for students planning graduate study.

**Program Overview and General Department Information**

**Admission**

Must pass ENG 102

**Retention**

Must maintain a 2.0 grade point average

**Transfer**

Must have a 2.0 grade point average

Courses are accepted pending similarity to Historical Studies offerings and articulation agreements with the student’s prior institution

**Degree Requirements**

Major requirements in all degree

**Bachelor of Arts or Bachelor of Science in Historical Studies Requirements**

Complete all general education and specific program requirements.

Complete four courses of HIST survey courses, 101-201 with a minimum grade of C.

- Two must be from the European or world surveys
- Two must be from the United States Surveys
- Students preparing for teacher licensure to teach history or social science must select HIST 112a,b
Complete six courses of upper level courses 300-499 with a minimum grade of C. At least two of these upper level courses must be completed prior to enrollment in HIST 301, and at least two of these upper level courses must be completed at the 400-level (400-499). Students preparing for licensure to teach history or social studies must select History/Pedagogy, HIST 323.

Complete HIST301 & HIST401 with a minimum grade of C.

Social Science Education minors must average 3.0 cumulatively in their Historical Studies courses.

**Bachelor of Arts or Bachelor of Science in Historical Students with Specialization in Applied Historical Methods Requirements**

Students in the specialization in applied historical methods must complete the following courses with a minimum of C or better:

- Two U.S. history surveys from the following: HIST 130, 200, 201.
- One European or World history or Introductory Topics in History course from the following: HIST 101, 111A, 111B, 111C, 112A, 112B.
- Careers in History (310).
- Three 300-400 level electives in historical content. The list of possible electives include all 300- and 400-level electives except those listed below.
- Two 300-400 level electives in historical skills or applied historical methods from the following:
  - Special Topics in Applied Historical Methods (309)
  - Social Science Pedagogy (323)
  - Oral History (447)
  - Public History (470)
  - Internship (490)
  - Historical Methodology (301)
  - Historical Research (401)

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**Sample Curriculum for the Bachelor of Arts in History**

**Fall Semester**

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<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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<td>HIST Survey Level (US) (EUSC)</td>
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<td>Foreign Language 101 (BICS)</td>
<td>RA 101 - Reasoning &amp; Argumentation</td>
<td>Upper-level foreign language course (recommended)</td>
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168  
Southern Illinois University Edwardsville
### Sample Curriculum for the Bachelor of Science in History

#### Fall Semester

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### Sample Curriculum for the Bachelor of Science in History—Professional Educator Licensure (9-12) option

#### Fall Semester

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### Sample Curriculum for the Bachelor of Science in History—Professional Educator Licensure (9-12) option cont.

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<td><strong>Year 4</strong></td>
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<td>HIST 401 – Historical Research</td>
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<td>CI 440 – Teaching Reading in Secondary School</td>
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<td>EPFR 320 – Foundations of Ed in a Multicultural Society</td>
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### Sample Curriculum for the Bachelor of Science in History, Applied Historical Methods

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<td>HIST Survey Level (Europe or World) (BSS)</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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<td>HIST 130, 200 or 201</td>
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<td>HIST 301 - Historical Methods</td>
<td>HIST 401 Historical Research</td>
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History Minor Requirements
Three survey courses out of: HIST 101-201.
At least one survey course must be European (111a, b, c) or World history (112a, b), and one must be American history (130a, 200, 201).
Four upper level courses between 300-499 must be taken.
At least three credit hours must be history of an area outside of Europe and the United States
HIST 300 mini courses can be taken for up to six hours, HIST 400 can be taken for up to nine hours.
No minors may take HIST 301 or 401.
Social Science Education Minor for History Majors
A grade of “C” or higher is required in the following coursework.
ANTH 111B – Human Culture and Communication
ECON 111 – Principles of Macroeconomics
ECON 112 – Principles of Microeconomics
GEOG 201 – World Regions
GEOG 205 – Human Geography
GEOG 210 – Physical Geography
POLS 111 – Intro to Political Science
POLS 112 – Intro Amer Nat’l Gvmt & Pol
SOC 111 – Introduction to Sociology
Complete 3 hours of the following:
POLS 300 – Intro to Political Analysis
POLS 340 – The Presidency
POLS 342 – Issues in Amer Public Policy
POLS 370 – Intro International Relations

Graduation Requirements
■ Complete all specific program requirements.
■ Students are required to complete a minor.
■ Complete all University requirements including:
  ■ All general education requirements
  ■ A minimum of 120 credit hours
    ■ At least 30 of which must be completed at SIUE
    ■ At least 60 of which must be completed at a regionally accredited 4-year institution
  ■ A minimum cumulative grade point average of 2.0
  ■ Bachelor of Arts only: one year of the same foreign language and 6 courses in fine and performing arts or humanities
■ File an Application for Graduation by the first day of the term in which you plan to graduate.

Mass Communications
Dunham Hall, Room 1031
siue.edu/MASSCOMM/

Professors
Hicks, Gary R., Ph.D., 1998,
The University of Texas at Austin

Associate Professors
Kapatamoyo, Musonda, Ph.D., 2007,
Ohio University
Mishra, Suman, Ph.D., 2010,
Temple University
Yu, Jason, Ph.D., 2008,
The University of North Carolina at Chapel Hill

Assistant Professors
Baasanjav, Undrah, Ph.D., 2006,
Ohio University
Li, Shi, Ph.D., 2015,
Indiana University Bloomington

Poepsel, Mark, Ph.D., 2011,
University of Missouri-Columbia

Instructors
Atwood, Tom, M.S., 2008,
Southern Illinois University Edwardsville
Byers, Cory, M.A., 2005,
Southern Illinois University Carbondale
Merrett-Murry, Tammy, M.A., 1998,
Webster University
Speno, Ashton, Ph.D., 2016,
University of Missouri-Columbia

Program Description
The Department of Mass Communications is accredited by the highly selective Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). The program is designed to prepare students for one of the fastest growing and dynamic fields in the United States: mass communication and media arts.
Our curriculum seeks to educate students to be responsive to this fast paced, ever changing professional environment. While some specialized skills are essential to enable students to meet current standards, the goal
of the Mass Communications curriculum is to produce graduates who are independent professional communicators capable of critically and creatively producing media messages for the diversity of groups in an increasingly global society.

To meet the challenges of the mass communications industries of the 21st century and to provide students with a comprehensive mass communications background, this department’s curriculum consists of four components: the introductory core, a professional specialization, the advanced core and Mass Communications electives. The introductory core of three courses consists of an introduction to mass communication plus two basic skills courses. MC 201 (Mass Media in Society) encourages an appreciation for the significant ideas, events and individuals that influenced the development of mass media systems and continue to guide their evolution.

In the two introductory skills courses, MC 202 (Writing for the Media) and MC 204 (Introduction to Television and Audio Production), students learn how to use the tools and technologies appropriate for the communications professions in which they will work. But beyond these technical skills, students are also trained in essential analytical skills and artistic skills in writing (accuracy, fairness, and clarity) and in audio and visual media production. These fundamental media skills are broadly applicable and not bound to specific technologies that may be threatened by obsolescence. Students are required to choose and to complete a professional specialization consisting of five courses. The specializations are: Journalism, Media Production, and Advertising & Strategic Media. The two anchor courses in each professional specialization are essential to developing proficiency in a specific media concentration. A choice of three additional courses from the remaining eight to ten courses in an specialization permits a faculty advisor to help a student focus his/her program in the direction best suited to that student’s career aspirations.

The advanced core encourages students to develop a deeper understanding of the social, political, legal, economic, artistic and technological environment in which media products are produced, delivered and consumed. Further, the advanced core emphasizes issues related to ethics and diversity, and encourages students to think carefully and critically about the nature and significance of the media in our society. Included in the advanced core are MC 327 (Writing and Designing for Digital Media), MC 401 (Media Law and Policy), MC 403 (Cultural Studies in Media), and MC 481 (Internship/Senior Portfolio). A professional internship off campus provides real-life work experience and valuable contacts for the student; the senior portfolio assignment helps students prepare for graduation and for advantageous positioning in the employment marketplace.

The curriculum also provides for one open major elective course. This provision enables students not only to explore their own cross-media educational interests, but also, with the aid of faculty advisors, to further position themselves for their particular career goals. To provide graduates with additional competencies in other disciplines, a minor in a subject outside the major also is required.

An Ideal Location
The St. Louis metropolitan area is the 21st largest media market in the United States. SIUE's Mass Communications Department program takes advantage of the resources of the region by regularly scheduling media professionals for guest appearances in classes, by employing working professionals as part-time faculty, and by sponsoring events such as Mass Communications Week, in which a number of programs on topics as varied as the job search, television and film lighting, independent video producing in St. Louis, virtual media for corporate communications, and a dialogue with a St. Louis Post-Dispatch columnist are conducted by working professionals and the faculty.

Career Opportunities
The Department of Mass Communications graduates take many career paths. Today dozens of careers are available for journalism students. Besides working as reporters, editors, sports writers or photojournalists on newspapers and online environments, graduates may land their first jobs with news wire services, organizational and professional newsletters, national, regional and local magazines, trade periodicals and in corporate communications. Recent journalism graduates report success in radio, television and news-related occupations. The journalism professional specialization prepares graduates for a growing number of news writing, reporting, newsroom management, documentary production and Internet news sites.
Advertising is all around us. To name a few, ads can always be found on radio, television, newspapers, magazines and other print media, as well as on billboards, the sides of buses and taxis, on T-shirts, baseball caps and lunch boxes, in the movies, on the Internet and even on the bags you use to carry home your purchases. Mass Communications Department graduates work for ad agencies, for marketing departments of major corporations, for sales departments of media organizations and in many other ancillary jobs in marketing. In ad agencies, graduates are successful, both on the creative side and as account executives, media specialists and buyers.

Recent Media Production graduates report that there are many more jobs “out there” than they imagined when they first enrolled at SIUE. Besides finding employment at television and radio stations, SIUE graduates are writing and producing videos for public relations clients, working in industrial and corporate communications, serving the video needs of hospitals, schools, colleges, and law offices, plus designing and producing interactive video and audio for web sites. And yes, many graduates still find jobs in radio and broadcast or cable television in news, production, sales, traffic, promotions, operations, and other departments. The new kind of broadcasting graduate this department produces is a valuable commodity throughout the mass communications job market.

Corporations and institutions have learned they can’t do without media specialists, and they come to SIUE to find the specialists they need to communicate with their stockholders, their employees, the public in fact, all their “publics,” as public relations practitioners call their audiences. Working in marketing, public relations, and corporate media (video, digital, multimedia, web, print), SIUE’s professional communicators create and deliver the messages for business, industry, institutions and organizations. Interactive multimedia, web site design and construction, computerized manipulation of visual images, digital photojournalism, digital publishing, non-linear video editing, digital animation and many other 21st-century mass communication skills.

Integrated into all these professional specializations is the study and practice of the leading-edge skills, techniques, theories and aesthetics SIUE graduates will need to succeed in a digital future for webmasters, interactive multimedia producers and many new digital media jobs as yet unnamed. SIUE students learn the tried-and-true mass communication basics as well as the most advanced digital media techniques needed to excel in this brave new world.

**Degree Programs**

- Bachelor of Arts, Mass Communications
- Bachelor of Science, Mass Communications

Specializations required in one of the following:
- Journalism
- Media Production
- Advertising and Strategic Media

**Program Overview and General Department Information**

**Admission**

Except for incoming freshmen, students wishing to apply for a major in mass communications are required to:
- complete all Academic Development courses required by the University;
- complete any required courses to address high school deficiencies;
- achieve a minimum cumulative grade point average of 2.2 at SIUE;

**Retention**

Mass Communications majors must maintain a 2.2 overall grade point average.

Students may attempt (complete a course and receive a grade) any Department of Mass Communications course only twice. If a student fails to achieve a C grade or better in a course after a second attempt, she/he must petition the Mass Communications Department faculty for the opportunity to attempt the course again.

**Transfer**

The department will accept a maximum of 18 semester hours transferred from any other accredited higher education institution toward completion of the Mass Communications major: the remainder of a student’s 39 hour major must be completed in this department.

The department will accept a maximum of 9 semester credits transferred from any other accredited higher education institution toward completion of the Mass Communications minor: the remainder of a student’s 21 hour minor must be completed in this department.

All mass communications courses that a student wishes to transfer should have a minimum grade of C. The burden of proof
that a course meets a requirement in the Mass Communications major is the responsibility of the student and the institution from which the course is transferred. Transfer students should contact the Mass Comm Dept. Chair for a course transfer review.

**Degree Requirements**

**General Education (42-44 hours)**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. Mass Communications majors must complete Philosophy 481: Media Ethics, as part of their program of study.

To ensure that Mass Communications majors learn to apply basic numerical and statistical concepts, each must complete one of the following options:

Choose either Concepts of Statistics; STAT 244, Statistics; or STAT 380, Statistics for Applications, to complete the SIUE General Education courses requirement; or

If a Mass Communications major chooses a minor in Applied Communication Studies, complete ACS 329, Communication Research Methods; or

Choose MC 451, Research Methods in Mass Media, either as a Mass Communications Department elective or as one of the student's three selected courses Journalism, Advertising and Strategic Media, and Media Production Specializations.

All Mass Communications majors must complete a minimum of 72 semester hours in courses outside the Department of Mass Communications.

**Introductory Core Requirements (9 hours)**

MC 201, MC 202 and MC 204

**Advanced Core (12 hours)**

MC 327, MC 401, MC 403 and MC 481

**Professional Option (15 hours)**

Choose one of the following Mass Communications options:

**Advertising and Strategic Media**

MC 325 Fundamentals of Advertising and MC 389 Media Planning or
MC 402 Media Management and
MC 422 Writing for the Corporate & Institutional Market

Three of the following courses chosen in consultation with a Mass Communications Department advisor:

MC 326 Advertising Copywriting & Design
MC 334 Electronic Media Advertising
MC 342 Digital Imagery
MC 421 Advertising Campaigns
MC 440 Visual Media Analysis
MC 441 Advanced Writing and Designing for Digital Media
MC 449 Media Psychology
MC 451 Research Methods in Mass Media

**Journalism**

MC 322 Copy Editing For The Media
MC 324 Public Affairs Reporting

Three of the following courses chosen in consultation with a Mass Communications Department advisor:

MC 321 Feature Writing
MC 323 Digital Publishing and Design
MC 330 Advanced Broadcast Writing
MC 332 Electronic Media News
MC 341 Sports Journalism
MC 342 Digital Imagery
MC 424 Literary Journalism
MC 447 Photojournalism

**Media Production**

MC 330 Advanced Broadcast Writing
MC 402 Media Management

Three of the following courses chosen in consultation with a Mass Communications Department advisor:

MC 301 Radio Production
MC 331 Electronic Media Performance
MC 333 Advanced Video Production
MC 334 Electronic Media Advertising
MC 423a,b Advanced Topics in Writing for the Media
MC 431 Corporate and Non-broadcast Video
MC 433 Television Producing and Directing
MC 440 Visual Media Analysis
MC 441 Advanced Writing and Designing for Digital Media
MC 454 Documentary Media Production

**Mass Communications Electives (3 hours)**

**Minor Outside of Mass Communications** (18-21 hours)

**University Electives (19-22 hours)**

Only mass communications courses in which the student receives a C grade or better will be accepted for credit toward completion of the Mass Communications major or minor.
Sample Curriculum for the Bachelor of Science in Mass Communications

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>MC 201 – Mass Media in Society</td>
<td>MC 202 – Writing for the Media</td>
</tr>
<tr>
<td>ENG 101 – English Composition I</td>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>ACS 101 – Public Speaking</td>
<td>RA 101 – Reasoning &amp; Argumentation</td>
</tr>
<tr>
<td>QR 101, MATH 150 or Higher</td>
<td>Breadth Humanities (BHUM)/Experience United States</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFFPA)</td>
<td>Breadth Life Science (BLS) with a lab (EL)</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td>MC 204 – Intro to Audio &amp; Video Production</td>
<td>MC Professional Option</td>
</tr>
<tr>
<td>Breadth Information &amp; Communication in Society (BICS)</td>
<td>MC Professional Option</td>
</tr>
<tr>
<td>Breadth Physical Science (BPS)</td>
<td>Breadth Social Science (BSS)</td>
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<tr>
<td>Minor.</td>
<td>Minor.</td>
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<tr>
<td>Minor.</td>
<td>Total</td>
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<tr>
<td>Total</td>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
<td>MC Professional Option</td>
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<tr>
<td>MC Professional Option</td>
<td>MC Professional Option</td>
</tr>
<tr>
<td>Life, Physical or Social Science/Experience Global Cultures (EGC)</td>
<td>Interdisciplinary Studies (IS)</td>
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<td>Life, Physical or Social Science</td>
</tr>
<tr>
<td>Minor.</td>
<td>Minor.</td>
</tr>
<tr>
<td>Life, Physical or Social Science with a lab (EL)</td>
<td>Total</td>
</tr>
<tr>
<td>Total</td>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td>MC 403 – Cultural Studies in Media</td>
</tr>
<tr>
<td>MC 401 – Media Law &amp; Policy</td>
<td>MC 481 – Internship/Senior Portfolio</td>
</tr>
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<td>PHIL 481 – Media Ethics</td>
<td>MC Elective</td>
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<td>Life, Physical or Social Science</td>
<td>Minor/Elective</td>
</tr>
<tr>
<td>Life, Physical or Social Science</td>
<td>Elective</td>
</tr>
<tr>
<td>Health Experience (EH)</td>
<td>Total</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Students wishing to obtain a Bachelor of Arts degree may do so by taking 8 courses in fine and performing arts or humanities to include two semesters of the same foreign language.

Mass Communications Minor

The Mass Communications minor requires MC 201 and 202 and additional courses selected in consultation with a departmental minor advisor for a total of 21 hours.

Graduation Requirements

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.2

- Bachelor of Arts only: one year of the same foreign language and a minimum of 6 courses in fine and performing arts or humanities
- File an Application for Graduation by the first day of the term in which you plan to graduate.
Mathematics and Statistics

Southern Illinois University Edwardsville
Vadalabene Center, Room 1036
siue.edu/artsandsciences/math/

Distinguished Research Professors
Pelekanos, George (Chair), Ph.D., 1997, University of Delaware
Sewell, Edward C., Ph.D., 1990, Cornell University

Professors
Agustin, Marcus, Ph.D., 1997, Bowling Green State University
Agustin, Zenia, Ph.D., 1997, Bowling Green State University
Leem, Koung Hee, Ph.D., 2003, University of Iowa
Neath, Andrew A., Ph.D., 1994, University of California, Davis
Staples, G. Stacey, Ph.D., 2004, Southern Illinois University Carbondale

Associate Professors
Chew, Song Foh, Ph.D., 2005, Purdue University
Parish, James L., Ph.D., 1985, University of Chicago
Song, Myung-Sin, Ph.D., 2005, University of Iowa
Voepel, Tammy M., Ph.D., 1997, University of Missouri-Columbia

Assistant Professors
Eames, Cheryl, Ph.D., 2014, Illinois State University
Liu, Jun, Ph.D., 2015, Southern Illinois University Carbondale
Loreaux, Jireh, Ph.D., 2016, University of Cincinnati
Pailden, Junvie, Ph.D., 2013, Bowling Green State University
Qiang, Beidi, Ph.D., 2017, University of South Carolina

Program Description
Mathematics, the queen of sciences, is both a language and a science. As a language, mathematics is used to translate relationships within the universe into mathematical expressions and equations, that is, into mathematical models. The importance of mathematics in this regard was emphasized by Galileo more than three centuries ago when he said, “the laws of nature are written in the language of mathematics.” Throughout history, mathematics has had an important role in the efforts of the human race to understand the world and to control the environment. As a science, mathematics is concerned not only with computation, but, more importantly, with the study of relations, interdependencies, and inferential structures. It is a rapidly growing field of study, concerned with problems from within mathematics and from the social sciences as well as the natural sciences. Consequently, students who major in mathematics have a wide range of career opportunities open to them.

With the progress in computers and computing technology, knowledge of the mathematical sciences is more important today than ever before. Having had a central role in the natural sciences for many years, mathematics has become more and more useful in the social sciences and in the humanities. Economics, political science, sociology, psychology and other social sciences now rely on mathematics, particularly statistics, to understand, to control and to predict social phenomena.

The Department of Mathematics and Statistics offers programs leading to a bachelor of arts or a bachelor of science degree with a major in mathematical studies. In addition, as a result of the various applications of mathematical sciences, the department offers a variety of service courses for students majoring in other disciplines. Please note that most of the courses in this department have other courses as prerequisites. Before enrolling in a course in mathematics, statistics or operations research, students must complete the prerequisite(s) with a grade of C or higher. A grade of D in a prerequisite course indicates inadequate preparation to continue to the next course.

Career Opportunities
Because mathematics provides the basic language and method for science and technology, a country needs to have many people who are well trained in mathematical subjects in order to be technologically competitive in a world economy. Mathematicians, statisticians, actuaries, and mathematical educators will continue to be needed by the government, industry, business, and schools. For a student in engineering, physics or computer science, a second major in mathematics may not require a great deal of additional course work, while enhancing the student’s background in his or her first major. A mathematics major is also appropriate preparation for graduate studies in several areas including mathematics, operations...
research, statistics, engineering and law. Actuarial Science and Statistics provide career possibilities that deserve special mention. Students with undergraduate majors in actuarial science or statistics may find positions doing actuarial work with insurance, consulting or financial companies, or doing work involving clinical trials with pharmaceutical firms, quality control and reliability with industrial firms, or consulting for research organizations, government agencies and educational institutions.

Also, recent job studies indicate shortages of statisticians and operations researchers trained at the graduate level. Some students enter professional programs in business, law, and medicine after completing a mathematics major. And, of course, the continuing need for highly motivated, well trained mathematics teachers in the schools has been well publicized.

Departmental advisors can provide information about career possibilities in the mathematical sciences and can suggest elective courses that would be appropriate to various career goals and interests, including the intention to pursue graduate studies.

Degree Programs
Bachelor of Arts, Mathematical Studies
Specializations available in the following:
- Actuarial Science
- Applied Mathematics
- Pure Mathematics
- Statistics

Bachelor of Science, Mathematical Studies
Specializations available in the following:
- Actuarial Science
- Applied Mathematics
- Pure Mathematics
- Statistics

Professional Educator Licensure (9-12) option

Program Overview and General Department Information
Admission
For purposes of this Department, the grade point average in university mathematics/statistics/operations research courses will be computed on the basis of all courses attempted. In the case of repeated attempts on the same SIUE mathematics/statistics/operations research course, the grades for the second and all subsequent attempts will be used in computing the grade point average.

To be admitted to the mathematics and statistics program, students must satisfy one of the following:
- Complete MATH 120 and 125, or mathematics courses having these as prerequisites (or equivalent courses at another accredited institution of higher education), have a GPA of 2.0 or higher in all university mathematics courses, and have a GPA of 2.0 or higher in all SIUE courses taken.
- Complete in high school seven semesters of university preparatory mathematics courses, including a course in trigonometry, and have no grade lower than a C in those courses.

Students who do not qualify for admission into an academic program in the department but hope to seek admission later are encouraged to obtain advice from a faculty member in the department.

For purposes of computing the GPA of a student seeking admission, the student may not use credit hours earned through proficiency, transfer, CLEP, or from a course, after credit has been received for similar or more advanced course work in the subject at SIUE or elsewhere. For readmission to the Department, students must have a C or better in Math 223, have a GPA of 2.0 or higher in all university mathematics courses, and have a GPA of 2.0 or higher in all SIUE courses taken. A student who has been dropped from the Department may be readmitted at most once.

Retention
In order to be retained, students must
- Maintain a cumulative grade point average of 2.0 in mathematics, statistics and operations research.
- Maintain a term grade point average above 1.0 in every term.
- Not have withdrawn, received incomplete grades, or a combination of failing grades in 50 percent or more of the courses for which the student is registered during two successive terms.
- Not have any combination of three grades of D, F, UW, WP, or WF in any single required course in mathematics, statistics, or operations research.

Transfer
Courses listed at [www.siue.edu/transfer/transfer-credit-equivalency-guides.shtml](http://www.siue.edu/transfer/transfer-credit-equivalency-guides.shtml) will be transferred automatically and will apply toward degree requirements as appropriate, provided a
grade of C or better was earned. For courses not included on the list, decisions are made on an individual basis. The student must provide an official detailed description of the course to the Chair of the Department of Mathematics and Statistics. Students must earn at least 30 hours in residence at SIUE.

General Education Requirements for the Major

Students seeking majors in this department may choose to be awarded the bachelor of arts degree rather than the bachelor of science degree, provided the electives include 8 hours of credit in a foreign language that is neither English nor the student's native language as well as 6 courses in fine and performing arts or humanities.

Students must choose from one of the five programs described below, which include four specializations in mathematical studies and a major in mathematics for secondary school teachers. Through a choice of electives, students may adjust these programs to their goals and interests.

In addition to the specific requirements stated below for each program, students must meet the following requirements:

- Earn a minimum of 120 hours of acceptable credit with a cumulative grade point average of 2.0 or higher;
- Complete at least 12 hours of SIUE credit in major courses numbered 300 or above with a cumulative GPA of 2.0 or higher;
- Earn a GPA of 2.0 or higher in all mathematics, statistics, or operations research courses numbered 300 or above at SIUE within 2 years preceding graduation;
- Complete at least 9 hours of credit in mathematics, statistics, or operations research courses numbered 300 or above at SIUE, excluding Math 498 and Math 499, within 2 years preceding graduation.

Duplicate credits earned (through proficiency, transfer, CLEP, or from a course) after credit has been received for similar or more advanced coursework in the subject at SIUE or elsewhere are not applicable toward graduation. Students who receive a grade of D in any mathematics, statistics, or operations research course may not count that course toward requirements for a mathematics major.

Degree Requirements

All programs offered by the Department of Mathematics and Statistics require completion of the mathematics core, which consists of the following courses:

- Completion of Computer Science 145 (with a grade of C or better) and
- Physics 151 and 151L (with a grade of C or better) also are required for all programs.

These courses total 33 hours, of which 5 are applicable to general education requirements. (Physics 151 satisfies 4 hours of the breadth area requirements. Physics 151L satisfies the laboratory requirement.)

All seniors are required to take MATH 498 and 499 (Senior Seminar and Senior Project), which carry 2 credits each. MATH 499 is graded Satisfactory or Unsatisfactory. Passing this course is required for graduation. The student is required to consult with a member of the mathematics/statistics faculty to prepare a proposal for a culminating project. The Undergraduate Program Committee must approve all proposals. The completed project is evaluated by a Project Evaluation Committee and includes both the documentation and an oral presentation by the student. Members of the faculty are invited to attend the oral presentation.

Degree Requirements B.A. or B.S. Mathematical Studies, with a specialization in Actuarial Science

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<thead>
<tr>
<th>Mathematics</th>
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<td>MATH 150</td>
<td>MATH 152</td>
<td>MATH 223</td>
<td>MATH 250</td>
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<td>MATH 305</td>
<td>MATH 321</td>
<td>MATH 340</td>
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<td>MATH 465</td>
<td>MATH 498</td>
<td>MATH 499</td>
<td>STAT 480a</td>
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<tr>
<td>STAT 480b</td>
<td>STAT 482</td>
<td>STAT 486a</td>
<td>OR 441</td>
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<tr>
<td>CS 145</td>
<td>PHYS 151</td>
<td>PHYS 151L</td>
<td>ECON 111</td>
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<td>ECON 112</td>
<td>ACCT 200</td>
<td>ACCT 210</td>
<td>FIN 320</td>
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<tr>
<td>FIN 420</td>
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</tr>
</tbody>
</table>

6 hours of MATH, STAT, or OR electives selected from STAT 478, STAT 485, OR 442, or MATH 466

3 hours of finance electives

Degree Requirements B.A. or B.S. Mathematical Studies, with a specialization in Applied Mathematics

<table>
<thead>
<tr>
<th>Mathematics</th>
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<th>Mathematics</th>
<th>Mathematics</th>
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<tr>
<td>MATH 499</td>
<td>CS 145</td>
<td>PHYS 151</td>
<td>PHYS 151L</td>
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<td>PHYS 152</td>
<td>PHYS 152L</td>
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</tbody>
</table>

9 hours of MATH, STAT, or OR electives chosen from one of the options below

- MATH 320 and two additional courses selected from MATH 421, 437, 450, OR 440, 441, 442, STAT 480a,b
- STAT 380 and two additional courses selected from MATH 421, 437, 450, OR 440, 441, 442.
- STAT 480a,b and one additional course selected from MATH 421, 437, 450, OR 440.
### Sample Curriculum for the Bachelor of Science Degree in Mathematical Studies: Actuarial Science

**Fall Semester**

<table>
<thead>
<tr>
<th>Year 1</th>
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</thead>
<tbody>
<tr>
<td>MATH 150 – Calculus I (FQR)</td>
<td>5</td>
</tr>
<tr>
<td>ECON 111 – Principles of Macroeconomics (BSS)</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 - English Composition I.</td>
<td>3</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>3</td>
</tr>
<tr>
<td>RA 101 - Reasoning and Argumentation</td>
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## Sample Curriculum for the Bachelor of Science Degree in Mathematical Studies: Actuarial Science cont

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## Sample Curriculum for the Bachelor of Science Degree in Mathematical Studies: Applied Mathematics

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## Sample Curriculum for the Bachelor of Science in Mathematical Studies: Statistics

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## Sample Curriculum for the Bachelor of Science in Mathematical Studies: Statistics cont

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<tbody>
<tr>
<td><strong>Year 4</strong></td>
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<td>MATH 498 – Senior Seminar ........................................ 2</td>
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<td>Experience United States Cultures Experience (EUSC) .......... 3</td>
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<td>STAT 482 – Regression Analysis ..................................... 3</td>
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## Sample Curriculum for the Bachelor of Science in Mathematics — Professional Educator Licensure (9-12) option

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<td>ACS 103 - Interpersonal Communication (EUSC) ..................... 3</td>
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<td>RA 101 - Reasoning and Argumentation ................................ 3</td>
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<td>MATH 250 – Calculus III (BPS) ....................................... 4</td>
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<td>MATH 223 – Logic and Mathematical Reasoning ..................... 4</td>
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<tr>
<td>MATH 320 – Introduction to Abstract Algebra ..................... 3</td>
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<td>STAT 380 – Statistics for Application (BICS) ..................... 3</td>
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<td>EPFR 315 – Educational Psychology ................................ 3</td>
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<td>MATH 411-The Teaching of Mathematics 2 ......................... 3</td>
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<td>MATH 435 – Foundations of Geometry ................................ 3</td>
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<td>CIED 323 – Adolescent Content Literacy ............................ 3</td>
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<td>MATH 152 – Calculus II (BPS) ........................................ 5</td>
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<td>CS 145 – Introduction to Computing for Engineers ............... 3</td>
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<td>PHYS 151 – University Physics I (BPS) ............................ 4</td>
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<td>PHYS 151L – University Physics I Lab (EL) ........................ 1</td>
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<td>ENG 102 - English Composition II .................................... 3</td>
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<td>MATH 350 – Introduction to Analysis ................................ 4</td>
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<td>Breadth Life Science (BLS) .......................................... 4</td>
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<table>
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<td>MATH 400 – Development of Modern Mathematics ................. 3</td>
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<td>EPFR 320 – Foundations of Education ................................ 3</td>
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<td>SPE 400 – The Exceptional Child .................................... 3</td>
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<td>Health Experience (EH) ............................................. 2</td>
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<td>MATH 311-The Teaching of Secondary Mathematics 1 .......... 3</td>
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<tr>
<td>CI 315b – Methods of Teaching in the Secondary School .......... 2</td>
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<td>CI 352 – Student Teaching ........................................... 10</td>
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</table>

## Minors in Mathematics and Statistics

The department offers a minor in mathematics and a minor in statistics.

### Minor in Mathematics

MATH 150 – Calculus I  MATH 152 – Calculus II

9 additional hours of mathematics, statistics, or operations research courses at the 200 level or above, of which 6 hours must be at the 300 level or above and at least 3 of these 6 hours must be from mathematics.
Minor in Statistics
MATH 150 – Calculus I MATH 152 – Calculus II
9 additional hours of statistics courses at the 300 level or above

For both minors at least six hours of courses at the 300 level or above must be taken at SIUE. Students must receive a grade of C or better in all mathematics, statistics, or operations research courses that count toward minor requirements.

Students majoring in mathematical studies may not minor in mathematics or statistics.

Graduation Requirements
- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - Bachelor of Arts: Eight courses in fine & performing arts or humanities, including one year of the same foreign language
- File an Application for Graduation by the first day of the term in which you plan to graduate.

Music
Katherine Dunham Hall, Room 2104
siue.edu/artsandsciences/music/

Professors
Bell, John R., Ed.D., 1986, University of Illinois at Urbana-Champaign
Chin, Huei Li, Ph.D., 2002, The Ohio State University
Coan, Darryl A., Ed.D., 1992, University of Illinois at Urbana-Champaign
Hinson, James M., D.M., 1995, Florida State University
Knapp, Joel D., D.M.A., 1991, University of Missouri at Kansas City
Korak III, John, D.M.A., 1999, University of North Texas
Mishra, Michael, D.A, 1997, University of Northern Colorado

Associate Professors
Archer, Kimberly K., D.M.A., 2003, University of Texas at Austin
Schapman, Marc T., D.M., 2007, Indiana University
Simidtchieva, Marta D., D.M., 2005, Florida State University
Smith, Deborah A., Ph.D., 1986, University of Michigan
Truckenbrod, Emily M., D.M.A., 1998, The University of Iowa at Iowa City

Assistant Professors
Greenwood, Andrew A., Ph.D., 2012, University of Chicago
Pineda, Kris, M.M., 2009, University of Texas at Austin
Schmidt, Garrett, M.M., 2011, Eastman School of Music
Swagler, Jason, M.M., 2000, Southern Illinois University Edwardsville

Instructors
Smithiger, Daniel, M.M., 2011, University of Arizona
Vandiver, Miles, M.M., 2012, Southern Illinois University Edwardsville

Program Description
The Department of Music at SIUE is an accredited member of the National Association of Schools of Music and offers the Bachelor of Music degree with specializations in Jazz Performance, Music Business, Music Education, Music Performance, Music Theory/Composition, and Musical Theater. The department also offers the Bachelor of Arts degree with specializations in Music and Music History and Literature.

The Music Department faculty believes students in undergraduate academic programs in music should receive a comprehensive musical background that includes cultural knowledge through the general education program, individual performance, ensemble performance, scholarly studies in music theory and history/literature, and teacher education courses, if appropriate. The intent is to develop skilled and informed musicians, able scholars, and competent and enthusiastic teachers.

The Bachelor of Arts degree, designed for students who wish to specialize in music
within a liberal arts curriculum, may serve as the foundation for advanced studies in music. The Bachelor of Music curriculum prepares students for professional careers and advanced graduate study in music performance and music education.

Frequently scheduled concerts and recitals by guest artists, faculty, and students offer an excellent and diverse program of cultural events for the enjoyment of the University community and residents of the metropolitan area.

Career Opportunities
A degree in music may lead to many interesting and productive careers in music and music-related fields. Some of the career opportunities available to graduates of the bachelor’s degree programs in music include teaching in public and private schools; playing professionally in symphony orchestras, studio orchestras, and jazz groups; performing in choruses, recitals, operas, oratorios and musical theater; composing and arranging. Additional opportunities exist in music publishing, music management and sales, music criticism, music librarianship, and private studio teaching.

Degree Programs
Bachelor of Arts, Music
Specialization available in:
- Music History and Literature

Bachelor of Music
Specializations available in:
- Jazz Performance
- Music Business
- Music Education, Professional Educator Licensure (K-12)
- Music Performance
- Music Theory and Composition
- Musical Theater

Program Overview and General Department Information
Admission
Students seeking admission to any degree program in music must perform an acceptable audition prior to admission.

Students are not permitted to register for private lessons until they complete the audition requirement. To schedule an audition, please write or call the Music Department office at (618) 650-3900. Transfer students must take a placement test in music theory (written and aural) and class piano. Students interested in pursuing any academic program in music are advised to declare their major upon entry to the University through the Office of Academic Counseling and Advising.

Convocation Requirement
All undergraduate music majors (B.M. or B.A.), whether declared or undeclared, are required to attend a minimum of 15 convocations/recitals/concerts per semester for a total of 8 semesters. Three (or fewer) of these events MAY be off campus performances. The remaining 12 events may be distributed in any manner between weekly convocations and on-campus concerts/recitals. University ensembles performing off campus will be considered as on campus events. Music department convocations are held during the fall and spring semesters on Fridays, 2:00-2:50, in either Abbott Auditorium or the Choral Room. Announcements are posted weekly throughout Dunham Hall.

Attendance at convocation events is recorded from programs submitted to the music office by students. Programs in which a student is a participant will satisfy the convocation requirement. The convocation requirement for transfer students will conform to the expected number of semesters needed for graduation as determined by the music department at the time of transfer to SIUE. The convocation requirement is waived for music education majors during the semester of student teaching, and for music business majors during the semester of internship. Programs submitted for convocation credit must be received by the music office within four calendar weeks of the performance date to be counted for credit.

Programs received after four weeks from the date of performance will not be accepted. If there are circumstances that prohibit fulfilling the convocation requirement for any given semester, the student may request permission to deviate from this established policy through written petition to the Convocation Committee. Petitions must be received prior to the fifth week of the semester, and will be considered only for the semester in which they are submitted. Under no circumstances should a student wait until the semester of graduation to petition the convocation committee for previous semester’s requirements. Students will register for “Convocation” (MUS 100) on a Credit/No Credit option for 8 semesters. A “U” grade will be removed when the required convocations/recitals have been completed. Students who do not fulfill the convocation requirement will be barred from graduation.

Retention
To remain in the music program, students...
must maintain a minimum GPA of 2.5 and receive a grade of C or better in all required music courses. In addition, each student must continue to make satisfactory progress in private applied music and participate in appropriate ensembles as assigned by the faculty.

Transfer

Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information about transfer, please visit siue.edu/transfer.

Degree Requirements

Bachelor of Arts, Music

MUS 100  MUS 121a  MUS 121b  MUS 125a
MUS 125b  MUS 126A  MUS 126B  MUS 140 (2,2)
MUS 225a  MUS 225b  MUS 221a  MUS 221b
MUS 240 (2,2)  MUS 267  MUS 367a  MUS 367b

Music Literature

Music major ensemble
MUS 139a,b  Diction for Singers (required for voice students)
One year of the same foreign language

Music Specialization:
In addition to above requirements:

Minor Concentration

Music History/Literature Specialization
In addition to above requirements:
MUS 326  MUS 442

Bachelor of Music

MUS 100  MUS 121a  MUS 121b  MUS 125a
MUS 125b  MUS 126A  MUS 126B  MUS 140 (2,2)
MUS 225a  MUS 225b  MUS 221a  MUS 221b
MUS 240 (2,2)  MUS 267  MUS 367a  MUS 367b
MUS 400a-z

Music major ensemble

Voice Performance Majors Only
MUS 139a,b  Diction for Singers
MUS 419 or MUS 442

Students are to choose two foreign languages from Italian, French, and German.

Jazz Performance Specialization
MUS 231/331 are substituted for MUS 221a,b and MUS 141/241 are substituted for MUS 140/240.
Also, in addition to above requirements:
MUS 230 (2)  MUS 330 (2,3, or 4)  MUS 337  MUS 341 (4,4)
MUS 409a  MUS 409b  MUS 430 (2,3, or 4)  MUS 436
MUS 439  MUS 441(4,4)  MUS 490

Music Business Specialization
In addition to above requirements:
ACCT 200  ECON 111  ECON 112
MUS 395a,b  MUS 495 (12)
Business electives (12)

Music Education, Professional Educator Licensure (K-12) Specialization
In addition to above requirements:
CIED 100  CI 352O (6)  CI 451C (6)  CI 440
EPFR 315  EPFR 320  MUS 112  MUS 113
MUS 114  MUS 116  MUS 201  MUS 301a
MUS 301b  MUS 301c  MUS 309  MUS 318a
MUS 318b  MUS 326  MUS 340(2,2)  MUS 411
MUS 440 (2)  MUS 490  SPE 400

Instrumental students only: MUS 115a,b
Vocal students only: MUS 139a,b

Music Performance Specialization
In addition to above requirements:
MUS 309  MUS 318a  MUS 326  MUS 411
MUS 340(4,4)  MUS 440(4,4)  MUS 442  MUS 461a
MUS 490

Applied lessons in the freshman and sophomore years may be taken for either 2 or 4 credit hours. Students who enroll in only credit hours must take additional music electives if their total hours are below 120.

Piano students only: MUS 165a,b substituted for MUS 121a,b; MUS 221a,b waived; MUS 413a,b; MUS 461a,b

Voice Students only: Two Foreign Languages Required - 1 year of French, German, or Italian and 1 year of a different language (i.e. First Language 101/102; Second Language 101/102; MUS 139a/b; MUS 419; Waived: MUS 309, MUS 442

Music Theory & Composition Specialization
In addition to above requirements:
MUS 212a  MUS 212b  MUS 227  MUS 309
MUS 326  MUS 411g  MUS 426a  MUS 442
MUS 472a,b  MUS 305
Theory emphasis only: one year of two different languages; MUS 326, 481

Composition emphasis only: MUS 115a, 112, 113 or 116 (non-voice students); MUS 114, 165a, 312a, 312b, 318a, 412a, 412b

Foreign Language 101 and 102

Musical Theater Specialization
DANC 114  DANC 210a  DANC 211a  DANC 212a,b
DANC 213  DANC 314  MUS 139a  MUS 342 (3)
MUS 343  MUS 444 (4)  THEA 112a  THEA 112b
THEA 150, 160, or 170  THEA 220  THEA 392
THEA 199 (2)

Music Elective (3 hours)
Theater Electives (6 hours)
Private Applied Voice (16)

General Education Requirements for the Major

General Education Requirements 44

Some General Education Requirements may be satisfied while completing this major concentration.

Requirements for students seeking Professional Educator Licensure

Admission to a teacher education program is a joint decision by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health
Sample Curriculum for the Bachelor of Arts - Music

### Fall Semester

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<th>Credits</th>
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<tr>
<td>MUS 121A - Class Piano (or Proficiency)</td>
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<tr>
<td>MUS 125A - Theory (BFPA)</td>
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<tr>
<td>MUS 126A - Aural Skills</td>
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<tr>
<td>MUS 139A - Diction (Voice Students only) or Music Elective (Non-Voice Students)</td>
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<tr>
<td>MUS 140 - Applied Lessons</td>
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<tr>
<td>MUS Major Ensemble</td>
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<tr>
<td>ENG 101 - Composition</td>
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<tr>
<td>MUS 100 - Convocation</td>
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<td>ACS 101 or 103 - Oral Expression</td>
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<td>MUS 367a - History of Music II (BHUM, EGC)</td>
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<td>MUS 240 - Applied Lessons</td>
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<td>MUS Major Ensemble</td>
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<td>RA 101 - Reasoning &amp; Argumentation</td>
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<td>Breadth Life Science (BLS)</td>
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<td>Foreign Language 101 (BICS)</td>
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<td>Interdisciplinary Studies (IS)</td>
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### Spring Semester

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<td>MUS 126B - Aural Skills</td>
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</tr>
<tr>
<td>MUS 267 - History of Music I (BHUM, EGC)</td>
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<tr>
<td>MUS 139B - Diction (Voice Major only) or Music Elective (Non-Voice Students)</td>
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<tr>
<td>MUS 140 - Applied Lessons</td>
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<tr>
<td>ENG 102 - Composition</td>
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<td>ACS 101 or 103 - Oral Expression</td>
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Sample Curriculum for the Bachelor of Arts - Music History/Literature

### Fall Semester

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<td>MUS 125A - Theory (BFPA)</td>
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<td>MUS 126A - Aural Skills</td>
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<tr>
<td>MUS 139A - Diction (Voice Students only) or Music Elective (Non-Voice Students)</td>
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<tr>
<td>MUS 140 - Applied Lessons</td>
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<td>ACS 101 or 103 - Oral Expression</td>
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<td>MUS 100 - Convocation</td>
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### Spring Semester

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<td>MUS 125B - Theory (BFPA)</td>
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<tr>
<td>MUS 126B - Aural Skills</td>
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<tr>
<td>MUS 267 - History of Music I (BHUM, EGC)</td>
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<tr>
<td>MUS 139B - Diction (Voice Major only) or Music Elective (Non-Voice Students)</td>
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<td>MUS 140 - Applied Lessons</td>
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<tr>
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Southern Illinois University Edwardsville
### Sample Curriculum for the Bachelor of Arts - Music History/Literature cont.

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### Sample Curriculum for the Bachelor of Music — Music Business

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2018-2019 Undergraduate Catalog
### Sample Curriculum for the Bachelor of Music — Music Business cont.

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### Sample Curriculum for the Bachelor of Music — Performance (Instrumental)

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<td>MUS 461A- Piano Teaching Techniques &amp; Materials</td>
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Sample Curriculum for the Bachelor of Music — Performance (Piano)

### Fall Semester

**Year 1**
- MUS 125A – Theory (BFPA) .................................................. 3
- MUS 126A – Aural Skills .......................................................... 1
- MUS 140 – Applied Lessons ..................................................... 2 or 4
- MUS 165A – Piano Practicum ................................................... 1
- MUS Major Ensemble ............................................................. 1
- ENG 101 – Composition ......................................................... 3
- ACS 101 or 103 - Oral Expression ........................................... 3
- MUS 100 - Convocation ......................................................... 0
- Total ........................................................................... 14 or 16

**Year 2**
- MUS 225A – Theory (BFPA) .................................................... 4
- MUS 367a - History of Music II (BHUM, EGC) ......................... 2
- MUS 240 – Applied Lessons .................................................... 2 or 4
- MUS 365 – Piano Ensemble .................................................... 1
- Foreign Language 101 (BICS) ............................................... 4
- QR 101, MATH 150 or Higher .............................................. 3
- MUS 100 ................................................................. 0
- Total .......................................................... 16 or 18

**Year 3**
- MUS 318A – Conducting ....................................................... 3
- MUS 340 – Applied Lessons ................................................... 4
- MUS 365 – Piano Ensemble ................................................... 1
- MUS 461A – Piano Teaching Techniques ................................ 3
- MUS 309 - Orchestration ....................................................... 3
- MUS 100 ................................................................. 0
- Breadth Life Science (BLS) with a lab (EL) ......................... 3
- Total .......................................................... 17

**Year 4**
- MUS 326 – Music Analysis ................................................... 3
- MUS 365 – Piano Ensemble ................................................... 0
- MUS 413A – Piano Literature ............................................... 2
- MUS 440 – Applied Lessons ................................................... 4
- Health Experience (EH) ....................................................... 1
- Interdisciplinary Studies (IS) .................................................. 3
- MUS 100 ................................................................. 0
- Total .......................................................... 13

### Spring Semester

**Year 1**
- MUS 125B – Theory (BFPA) .................................................... 3
- MUS 126B - Aural Skills .......................................................... 1
- MUS 267 - History of Music I (BHUM, EGC) ......................... 2
- MUS 140 – Applied Lessons .................................................... 2 or 4
- MUS 165B – Piano Practicum ................................................... 1
- MUS Major Ensemble ............................................................. 1
- ENG 102 – Composition ......................................................... 3
- RA 101 - Reasoning & Argumentation ................................ 3
- MUS 100 ................................................................. 0
- MUS 100 ................................................................. 0
- Total .......................................................... 16 or 18

**Year 2**
- MUS 225B – Theory (BFPA) .................................................... 4
- MUS 367b - History of Music III (BHUM, EGC) ..................... 2
- MUS 240 – Applied Lessons .................................................... 2 or 4
- MUS 365 – Piano Ensemble .................................................... 1
- Foreign Language 102 (EGC) ............................................... 4
- Breadth Physical Science (BPS) ............................................ 3
- MUS 100 ................................................................. 0
- Total .......................................................... 16 or 18

**Year 3**
- MUS 340 – Applied Lessons ................................................... 4
- MUS 365 – Piano Ensemble ................................................... 1
- MUS 461B – Piano Teaching Techniques ................................ 3
- MUS 411 - Music Literature .................................................. 3
- Breadth Social Science (BSS)/United States Culture (EUSC) 3
- MUS 100 ................................................................. 0
- Junior Recital – During 3rd Year ........................................... 0
- Total .......................................................... 14

**Year 4**
- MUS 365 – Piano Ensemble ................................................... 3
- MUS 413B - Piano Literature ............................................... 2
- MUS 440 – Applied Lessons ................................................... 4
- MUS 442 – Counterpoint ....................................................... 3
- MUS 100 ................................................................. 0
- MUS 400a-z - Senior Assignment ........................................ 0
- MUS 490 - Senior Recital – During 4th Year ......................... 0
- Total .......................................................... 12
### Sample Curriculum for the Bachelor of Music — Performance (Voice)

#### Fall Semester

**Year 1**
- MUS 121A – Class Piano (or Proficiency) .................................. 1
- MUS 125A – Theory (BFPA) .................................................. 3
- MUS 126A - Aural Skills .................................................... 1
- MUS 139A – Diction ......................................................... 2
- MUS 140 – Applied Lessons ................................................ 2 or 4
- MUS Major Ensemble ....................................................... 1
- ENG 101 – Composition .................................................... 3
- ACS 101 or 103 - Oral Expression ....................................... 3
- MUS 100 - Convocation .................................................... 0
- Total .............................................................. 16 or 18

**Year 2**
- MUS 221A – Class Piano (or Proficiency) .................................. 1
- MUS 225A – Theory (BFPA) .................................................. 4
- MUS 240 – Applied Lessons ................................................ 2 or 4
- MUS Major Ensemble ....................................................... 1
- *Foreign Language 101 (BICS) ......................................... 4
- RA 101 - Reasoning & Argumentation ................................ 3
- MUS 100 ................................................................. 0
- Total .............................................................. 15 or 17

**Year 3**
- MUS 318A – Conducting .................................................... 2
- MUS 340 – Applied Lessons ................................................ 4
- MUS 367A – History of Music II (BHUM, EGC) ................. 2
- MUS Major Ensemble ....................................................... 1
- *Foreign Language (second FL) 101 .................................. 4
- MUS 100 ................................................................. 0
- Total .............................................................. 13

**Year 4**
- MUS 326 – Analysis (BFPA) ................................................ 3
- MUS 440 – Applied Lessons ................................................ 4
- MUS Major Ensemble ....................................................... 1
- Health Experience (EH) .................................................... 2
- Interdisciplinary Studies (IS) ............................................. 3
- MUS 100 ................................................................. 0
- Total .............................................................. 13

**Spring Semester**

**Year 1**
- MUS 121B – Class Piano (or Proficiency) .................................. 1
- MUS 125B – Theory (BFPA) .................................................. 3
- MUS 126B - Aural Skills .................................................... 1
- MUS 139B – Diction ......................................................... 2
- MUS 140 – Applied Lessons ................................................ 2 or 4
- MUS Major Ensemble ....................................................... 1
- ENG 102 – Composition .................................................... 3
- Breadth Physical Science (BPS) ........................................ 3
- MUS 100 ................................................................. 0
- Total .............................................................. 16 or 18

**Year 2**
- MUS 221B – Class Piano (or Proficiency) .................................. 1
- MUS 225B – Theory (BFPA) .................................................. 4
- MUS 240 – Applied Lessons ................................................ 2 or 4
- MUS 267 - History of Music I (BHUM, EGC) ................. 2
- MUS Major Ensemble ....................................................... 1
- Foreign Language 102 (EGC) .......................................... 4
- QR 101, MATH 150 or Higher .......................................... 3
- MUS 100 ................................................................. 0
- Total .............................................................. 17 or 19

**Year 3**
- MUS 340 – Applied Lessons ................................................ 4
- MUS 367B – History of Music III (BHUM, EGC) ................. 2
- MUS Major Ensemble ....................................................... 1
- Foreign Language (second FL) 102 (EGC) ....................... 4
- Breadth Life Science (BLS)/Lab Experience (EL) ............. 3
- Breadth Social Science (BSS) ........................................... 3
- MUS 100 ................................................................. 0
- Junior Recital – During 3rd Year ......................................
- Total ................................................................ 17

**Year 4**
- MUS 440 – Applied Lessons ................................................ 4
- MUS 419 - Vocal Pedagogy (BFPA) .................................... 2
- MUS Major- Voice Ensemble ........................................... 1
- MUS 411 - Music Literature ............................................. 2
- MUS 461A - Piano Teaching Techniques & Materials .......... 3
- MUS 100 ................................................................. 0
- MUS 400a-z - Senior Assignment .................................... 0
- Breadth Humanities (BHUM)/Experience United States Cultures (EUSC) ........................................... 3
- MUS 490 - Senior Recital – During 4th Year .................... 0
- Total .............................................................. 15

* Students are to choose two foreign languages from Italian, French, and German.
## Sample Curriculum for the Bachelor of Music — Jazz Performance

### Fall Semester

#### Year 1
- MUS 121A – Class Piano (or Proficiency) ........................................ 1
- MUS 125A – Theory (BFPA). .......................................................... 3
- MUS 126A - Aural Skills ................................................................. 1
- MUS 141 – Applied Lessons .......................................................... 2 or 4
- MUS 230 – Improvisation ............................................................... 1
- MUS 333 – Jazz Combo ................................................................. 1
- ENG 101 – Composition ................................................................. 3
- ACS 103 - Interpersonal Communication (EUSC) ................................ 3
- MUS 100 - Convocation ............................................................... 0

**Total ................................................................. 15 or 17**

#### Year 2
- MUS 225A – Theory (BFPA). .......................................................... 4
- MUS 367a - History of Music II (BHUM, EGC) .................................. 2
- MUS 231 – Jazz Keyboard Theory .................................................. 2
- MUS 241 – Applied Lessons .......................................................... 2 or 4
- MUS 330 – Improvisation (BFPA). .................................................. 1
- MUS 333 – Jazz Combo ................................................................. 1
- QR 101, MATH 150 or Higher ........................................................ 3
- MUS 100 ............................................................... 0

**Total ................................................................. 15 or 17**

#### Year 3
- MUS 333 – Jazz Combo ................................................................. 1
- MUS 337 - Analysis of Jazz Styles ................................................... 3
- MUS 341 – Applied Lessons .......................................................... 4
- MUS 409A - Jazz Arranging .......................................................... 2
- MUS 430 - Improvisation ............................................................... 1
- Foreign Language 101 ................................................................. 4
- MUS 100 ............................................................... 0

**Total ................................................................. 15**

#### Year 4
- MUS 333 – Jazz Combo ................................................................. 1
- MUS 439 - Recording Techniques .................................................. 2
- MUS 430 – Improvisation ............................................................... 1
- MUS 436 – Jazz Education .............................................................. 2
- MUS 441 – Applied Lessons ......................................................... 4
- Interdisciplinary Studies (IS) .......................................................... 3
- Lab Experience (EL) ................................................................. 3
- MUS 100 ............................................................... 0

**Total ................................................................. 14**

### Spring Semester

#### Year 1
- MUS 121B – Class Piano (or Proficiency) .................................... 1
- MUS 125B – Theory (BFPA). .......................................................... 3
- MUS 126B - Aural Skills ................................................................. 1
- MUS 267 - History of Music I (BHUM, EGC) .................................. 2
- MUS 141 – Applied Lessons .......................................................... 2 or 4
- MUS 230 – Improvisation ............................................................... 1
- MUS 333 – Jazz Combo ................................................................. 1
- ENG 102 – Composition ................................................................. 3
- RA 101 - Reasoning & Argumentation ......................................... 3
- MUS 100 - Convocation ............................................................... 0

**Total ................................................................. 17 or 19**

#### Year 2
- MUS 225B – Theory (BFPA). .......................................................... 4
- MUS 367b - History of Music III (BHUM, EGC) ............................... 2
- MUS 241 – Applied Lessons .......................................................... 2 or 4
- MUS 330 – Improvisation (BFPA). .................................................. 1
- MUS 331 – Jazz Keyboard Theory (BFPA). .................................... 2
- MUS 333 – Jazz Combo ................................................................. 1
- Breadth Social Science (BSS) .......................................................... 3
- Breadth Humanities (BHUM) .......................................................... 3
- MUS 100 ............................................................... 0

**Total ................................................................. 15 or 17**

#### Year 3
- MUS 333 Jazz Combo ................................................................. 1
- MUS 341 – Applied Lessons .......................................................... 4
- MUS 409B – Jazz Arranging .......................................................... 2
- MUS 430 - Improvisation ............................................................... 1
- Foreign Language 102 (EGC) .......................................................... 4
- MUS 100 ............................................................... 0
- Junior Recital – During 3rd Year .................................................... 2

**Total ................................................................. 12**

#### Year 4
- MUS 333 – Jazz Combo ................................................................. 1
- MUS 439 - Recording Techniques .................................................. 2
- MUS 430 – Improvisation ............................................................... 1
- MUS 436 – Jazz Education .............................................................. 2
- MUS 441 – Applied Lessons ......................................................... 4
- Interdisciplinary Studies (IS) .......................................................... 3
- Breadth Life Science (BLS)/Health Experience (EH) ....................... 3
- MUS 100 ............................................................... 0
- MUS 400a-z - Senior Assignment ................................................... 0
- MUS 490 - Senior Recital – During 4th Year .................................... 0

**Total ................................................................. 14 or 17**
### Sample Curriculum for the Bachelor of Music — Music Education, Professional Educator Licensure (K-12)

#### Fall Semester

**Year 1**
- MUS 115A – Class Voice or MUS 139A - Diction for Singers: 1
- MUS 201 – Music Education Intro: 1
- MUS 121A – Class Piano (or Proficiency) or MUS 165A: 1
- Piano Practicum (Keyboard Students Only): 1
- MUS 125A – Theory (BFPA): 3
- MUS 126A – Aural Skills: 1
- MUS 140 – Applied Lessons: 2
- MUS Major Ensemble: 1
- MUS 113 - Class Applied Brass or MUS 114 - Class Applied Percussion: 1
- ENG 101 – English Composition I: 3
- ACS 101 or 103 - Oral Expression: 3
- MUS 100 - Convocation: 0
- **Total: 17**

**Year 2**
- MUS 113 – Class Applied Brass or MUS 114 - Class Applied Percussion: 1
- MUS 221A – Class Applied Piano (or Proficiency; waived for Keyboard Students Only): 1
- MUS 225A – Theory (BFPA): 4
- MUS 367a - History of Music II (BHUM, EGC): 2
- MUS 240 - Applied Lessons: 2
- MUS Major Ensemble: 1
- CIED 100 – Introduction to Education: 3
- Foreign Language 101: 4
- MUS 100: 0
- **Total: 18**

**Year 3**
- MUS 301A – Education Methods : Elementary: 2
- MUS 309A – Orchestration (BFPA): 3
- MUS 318A – Conducting: 2
- MUS 340 – Applied Lessons: 2
- MUS 357A – Music History (BHUM): 3
- MUS Major Ensemble: 1
- SPE 400 - The Exceptional Child: 3
- EPFR 315 - Educational Psychology: 3
- MUS 100: 0
- **Total: 19**

**Year 4**
- MUS 301C – Education Methods: Secondary Instrumental: 2
- MUS 326A – Analysis: 3
- MUS 411 – Music Literature: 2
- MUS 440 – Applied Lessons: 2
- MUS Major Ensemble: 1
- Breadth Humanities (BHUM): 3
- Interdisciplinary Studies (IS): 3
- MUS 100: 0
- **Total: 16**

#### Spring Semester

**Year 1**
- MUS 115B – Class Voice or MUS 139B - Diction for Singers: 1
- MUS 112 - Woodwind Methods or MUS 116 – Class Applied Strings: 1
- MUS 121B – Class Piano (or Proficiency) or MUS 165B: 1
- Piano Practicum (Keyboard Students Only): 1
- MUS 125B – Theory (BFPA): 3
- MUS 267 - History of Music I (BHUM, EGC): 2
- MUS 126B - Aural Skills: 1
- MUS 140 – Applied Lessons: 2
- MUS Major Ensemble: 1
- ENG 102 – English Composition II: 3
- RA 101 - Reasoning & Argumentation: 3
- MUS 100: 0
- **Total: 18**

**Year 2**
- MUS 112 – Class Applied Woodwinds or MUS 116 – Class Applied Strings: 1
- MUS 221B – Class Piano (or Proficiency; waived for Keyboard Students Only): 1
- MUS 225B – Theory (BFPA): 4
- MUS 367b - History of Music III (BHUM, EGC): 2
- MUS Major Ensemble: 1
- Health Experience: 1
- Foreign Language 102 (BICS/EGC): 4
- QR 101, MATH 150 or Higher: 3
- MUS 100: 0
- **Total: 19**

**Year 3**
- MUS 301B – Education Methods: Secondary Vocal/General: 2
- MUS 318B – Conducting: 2
- MUS 340 – Applied Lessons: 2
- MUS Major Ensemble: 1
- EPFR 320 – Foundations of Ed in a Multicultural Society: 3
- Breadth Life Science (BLS): 3
- Breadth Physical Science (BPS): 3
- CIED 323 - Adolescent Content Literacy: 3
- MUS 100: 0
- **Total: 19**

**Year 4**
- CI 352 – Student Teaching: 6
- CI 451C – Elementary Student Teaching: Music: 6
- MUS 400E - Senior Assignment: 0
- **Total: 12**
Sample Curriculum for the Bachelor of Music — Music Theory and Composition (Theory Emphasis)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>MUS 121A – Class Piano (or Proficiency) .............................................</td>
<td>MUS 121B – Class Piano (or Proficiency) .............................................</td>
</tr>
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<td>MUS 125A – Theory (BFPA) ..............................................................................</td>
<td>MUS 125B – Theory (BFPA) ..........................................................................</td>
</tr>
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<td>MUS 126A – Aural Skills ..................................................................................</td>
<td>MUS 126B – Aural Skills ..............................................................................</td>
</tr>
<tr>
<td>MUS 139A – Diction (Voice Students Only) ...................................................</td>
<td>MUS 139B – Diction (Voice Students Only) ...................................................</td>
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<td>MUS 140 – Applied Lessons ...............................................................................</td>
<td>MUS 140 – Applied Lessons ..........................................................................</td>
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<td>MUS Major Ensemble. .....................................................................................</td>
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<td>ENG 101 – Composition .....................................................................................</td>
<td>ENG 102 – Composition ..................................................................................</td>
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<td>ACS 101 or 103 - Oral Expression ....................................................................</td>
<td>OR 101, MATH 150 or Higher .........................................................................</td>
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<td>MUS 100 – Convocation. .....................................................................................</td>
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<td>MUS 367a - History of Music II (BHUM, EGC) ............................................. 2</td>
<td>MUS 367b - History of Music III (BHUM, EGC) ............................................. 2</td>
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<td>MUS 240 – Applied Lessons ...............................................................................</td>
<td>MUS 227 – Intro to Composition ...................................................................</td>
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<td>MUS Major Ensemble. .........................................................................................</td>
<td>MUS 240 – Applied Lessons ..........................................................................</td>
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<tr>
<td>RA 101 - Reasoning &amp; Argumentation ................................................................</td>
<td>MUS Major Ensemble. .....................................................................................</td>
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<td>MUS 165A – Piano Practicum ...........................................................................</td>
<td>MUS 212B – Applied Composition ...................................................................</td>
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<td>MUS 212A – Applied Composition .................................................................</td>
<td>MUS 426A – Adv Music Theory: Music Since 1900 .........................................</td>
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<td>MUS 309 – Orchestration (BFPA) .......................................................................</td>
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<td>MUS Major Ensemble. .....................................................................................</td>
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<td>*Foreign Language 101 (BICS) .........................................................................</td>
<td>*Foreign Language 102 (same language as in Fall; EGC) .............................</td>
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| MUS 326 – Analysis .......................................................................................... | MUS 481. .......................................................................................................
| MUS 411G – Music Lit.: 20th Century .............................................................. | MUS 442 – Counterpoint ................................................................................. |
| MUS 481 –Readings in Music Theory .................................................................. | *Foreign Language 102 (same language as in Fall). .................................... |
| *Foreign Language 101 (second language) ..................................................... | Interdisciplinary Studies (IS). .................................................................. |
| MUS Major Ensemble. ......................................................................................... | Elective (Non-Voice Students Only) .............................................................. |
| Breadth Humanities (BHUM)/Experience United States Cultures (EUSC) .......... 3 | (2) .................................................................................................................... |
| MUS 100. ........................................................................................................... | MUS 100. ........................................................................................................ |
| **Total** ........................................................................................................... | **Total** ....................................................................................................... |
| .16 ..................................................................................................................... | .13-15 ............................................................................................................. |

* Foreign Language in year two and three, must be French, German, Italian, or Latin
Sample Curriculum for the Bachelor of Music — Music Theory and Composition (Composition Emphasis)

**Fall Semester**

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<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td>MUS 121A – Class Piano (or Proficiency)</td>
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<td>MUS 125A – Theory (BFPA)</td>
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<td>MUS 126A – Aural Skills</td>
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<td>MUS 139A – Diction (Voice Students Only)</td>
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<td>MUS Major Ensemble</td>
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<td>ENG 101 – Composition</td>
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<td>MUS 240 – Secondary Applied Lessons</td>
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<th>Year 4</th>
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<td>MUS 318A – Conducting</td>
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<td>MUS 326 – Analysis</td>
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<td>MUS 411G – Music Lit.; 20th Century</td>
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**Spring Semester**

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<tr>
<td>MUS 121B – Class Piano (or Proficiency)</td>
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<td>ENG 102 – Composition</td>
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<td>MUS 225B – Theory (BFPA)</td>
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<th>Year 3</th>
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<tbody>
<tr>
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<td>MUS 472 – Arranging</td>
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<td>MUS 412B – Applied Composition</td>
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<tr>
<td>MUS 426A – Adv Music Theory: Music Since 1900</td>
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<td>ANTH 302 or MUS 305</td>
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<td>Breadth Humanities (BHUM)/Experience United States</td>
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<td>Cultures (EUSC)</td>
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### Sample Curriculum for the Bachelor of Music — Musical Theater

#### Fall Semester

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<td>MUS 140Q – Applied Lessons</td>
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<td>DANC 114 - Core: Movement Fundamentals</td>
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<td>DANC 210A - Beginning Modern (EH)</td>
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<td>THEA 112A - Introduction to Acting</td>
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<td>THEA 199 - Theater Production Elective</td>
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<td>MUS 139A - Diction</td>
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<td>MUS 342 - Musical Theater Ensemble</td>
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<td>DANC 212A - Jazz Dance</td>
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<td>DANC 213 - Beginning Tap Dance</td>
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<td>DANC 314 - Broadway Styles</td>
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<tr>
<td>THEA 392 - American Musical Theater (EUSC)</td>
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#### Spring Semester

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<td>RA 101 - Reasoning and Argumentation</td>
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<td>DANC 211A - Beginning Ballet (EH)</td>
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<td>THEA 112B - Creating a Role</td>
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<tr>
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<td>MUS 343 - Seminar in Audition Techniques</td>
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<tr>
<td>DANC 212B - Advanced Jazz</td>
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<td>Foreign Language 102 (BICS)</td>
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<td>Breadth Physical Science Elective w/Lab (BPS, EL)</td>
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<tr>
<td>MUS 440Q - Applied Lessons</td>
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<td>MUS 342 - Musical Theater Ensemble</td>
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<td>THEA 150, 160, or 170 (select one)</td>
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<td>Interdisciplinary Studies (IS)</td>
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<td>MUS 400a-z - Senior Assignment</td>
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### Minor in Music

Students wishing to minor in music must consult with the designated advisor to develop an approved program before beginning coursework. Students must complete a total of at least 24 hours in music which must include:

- MUS 124 or 125a
- MUS 121a or 231
- MUS 111

One upper level music history/literature course

Students seeking minors in music are required
to build a concentration of 8 hours in one particular area of music. The following areas of concentration are available: performance, theory, history/literature, jazz, music education, and music business. Certain activities such as private applied study, advanced level courses, and some ensembles require an audition and/or prior approval of the instructor.

**Graduation Requirements**

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - Bachelor of Arts only: one year of the same foreign language
- File an Application for Graduation by the first day of the term in which you plan to graduate.

**Philosophy**

Peck Hall, Room 3212
siue.edu/artsandsciences/philosophy

**Professors**
Crane, Judith K., (Chair) Ph.D., 1999, Tulane University
Fields, Gregory P., Ph.D., 1994, University of Hawaii
Ware, Robert B., D.Phil., 1995, Oxford University

**Associate Professors**
Cashen, Matthew C., Ph.D., 2007, Washington University
Larkin, William S., Ph.D., 1998, University of California Santa Barbara
Littmann, Greg, Ph.D., 2004, University of North Carolina at Chapel Hill
Pearson, Christopher H., Ph.D., 2007, University of Washington

Reiheld, Alison, Ph.D., 2010, Michigan State University
Schunke, Matthew, Ph.D., 2009, Rice University

**Assistant Professors**
Fatima, Saba, Ph.D., 2012, Binghamton University
Fry, Richard J., Ph.D., 2013, Georgetown University
Krag, Erik R., Ph.D., 2012, University of Tennessee

**Instructors**
Catalano, Michelle E., M.A., 2010, University of Missouri - St. Louis
Darr, Raymond C., M.A., 1984, Southern Illinois University Edwardsville
Meade, Erik J., M.A., 2001, Southern Illinois University Carbondale
Schallert, Edward W., M.A., 1990, Southern Illinois University Edwardsville

**Program Description**

Philosophy is the attempt to think carefully, clearly, and critically about questions not readily addressable through the natural and social sciences. Philosophers consider a variety of complex questions, including:

- What makes human life valuable and worthy of respect?
- Are moral values objective or subjective?
- What are persons, minds, and bodies, and how are they related?
- Is there a God? If so, what is God’s relationship to the world?
- What are the limits of power that a society can exercise legitimately over the individual?
- How can one decide whether a work of art is beautiful?
- Do human beings have free will?
- What are the limits of human knowledge?

These pursuits involve inquiring into the reasons for beliefs about these issues. Thus, philosophers are especially interested in reasoning and the justification for our beliefs and attitudes.

**Career Opportunities**

A strong liberal arts background provides an excellent foundation from which to launch exciting careers. In today’s competitive environment, there is a premium for individuals with the critical skills of reading, writing, and independent thinking. These are the bases for
lifelong learning and the skills that philosophy emphasizes. The study of philosophy also enriches one’s perspectives by introducing one to very different ways of looking at, and thinking about, the world and how people live in it.

In addition to opening the door to the pursuit of a graduate degree in philosophy, a major in Philosophy is highly desirable in any career that puts a premium on analytical skills and independent thinking, including law, medicine, business, politics, mediation, journalism, editing, and public relations. Moreover, because of the relatively modest number of hours required for a Philosophy major, many students find it convenient to plan a double major, uniting philosophy with other academic fields. Since philosophy engages many of the assumptions and questions that pertain to other areas of study, a major in Philosophy can deepen and broaden one’s understanding of another major. A minor in Philosophy is especially appropriate for those who plan to enter the professions of computer science, teaching, medicine, journalism, business, science, or social science, as well as law or theology.

### Philosophy as Pre-Law Preparation

Students aspiring to law school may also wish to complete the Pre-Law minor. Students completing the BA in Philosophy with a Law specialization will need to complete 5 additional courses outside of Philosophy for the Pre-Law minor. See the requirements listed below, as well as the Pre-Law section of the Undergraduate catalog for details.

Other programs of study correlated with high law school acceptance rates and high LSAT scores include Economics, English, History, and Political Science. These may be combined with the Philosophy major as either a second major or a minor.

#### Degree Programs:

- Bachelor of Arts, Philosophy
  - Specialization available in Law
- Bachelor of Science, Philosophy

#### Program Overview

#### Admission

To be admitted to the bachelor of science or bachelor of arts program, students must:

- Complete all Academic Development courses required by the University.
- Complete any courses required to address high school deficiencies.
- Complete RA 101, PHIL 212, or PHIL 213 with a grade of C or better.

Note: RA 101 does not count for credit toward the major in philosophy.

#### Retention and Academic Standards

Maintain a cumulative grade point average of 2.0.

#### Transfer

Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information about transfer, please visit [www.siue.edu/transfer](http://www.siue.edu/transfer).

Students transferring philosophy courses from another institution should consult a Philosophy advisor to review how these will apply toward the requirements for a BA or BS in philosophy.

A grade of C or better must be earned in all philosophy transfer courses to count toward the required 33 hours.

#### Degree Requirements (120 hours total)

- **General Education Requirements (35 hours)**
  - University general education requirements
Philosophy Course Requirements (33 hours)

1. History of Philosophy (6 hours)
   A) PHIL 300 – Classical Greek Philosophy
   B) EITHER
      PHIL 304 - Eighteenth Century Philosophy
      OR
      PHIL 307 - Seventeenth Century Philosophy

2. Area Requirements (12 hours, one course from each of the following areas):
   A Metaphysics and Epistemology
      PHIL 310 – Theories of Knowledge
      PHIL 330 – Metaphysics
      PHIL 345 – Women, Knowledge, and Reality
      PHIL 350 – Philosophy of Mind
      PHIL 355 – Philosophy of Language
      PHIL 411 – Advanced Logic
   B Value Theory
      PHIL 222 – Environmental Ethics
      PHIL 225 – Contemporary Moral Issues
      PHIL 320 – Ethics
      PHIL 321 – Ethics in the Medical Comm.
      PHIL 323 – Engineering, Ethics, and Prof.
      PHIL 340 – Social and Political Philosophy
      PHIL 343 – Philosophy of Law
      PHIL 344 – Women and Values
      PHIL 346 – Feminist Theory
      PHIL 440 – Classical Political Theory
      PHIL 441 – Modern Political Theory
      PHIL 496 – Topics in Ethics
   C Cultural Pluralism
      PHIL 233 - Philosophies and Diverse Cultures
      PHIL 234 - World Religions
      PHIL 335 – Islamic Thought
      PHIL 337 - American Indian Thought
      PHIL 344 – Women and Values
      PHIL 345 – Women, Knowledge, and Reality
      PHIL 347 – Philosophy of Race
      PHIL 390 – Philosophy Here and Abroad
   D Religion
      PHIL 230 - Atheism
      PHIL 231 – Philosophy, Science and Religion
      PHIL 234 - World Religions
      PHIL 333 – Philosophy of Religion
      PHIL 335 – Islamic Thought
      PHIL 336 – Christian Thought
      PHIL 337 – American Indian Thought

3. PHIL 480 – Senior Assignment (3 hours)
4. PHIL 490 – Philosophy Seminar (3 hours)
5. Philosophy Electives (9 hours)

Any course listed above and not used for another requirement may be used as a Philosophy Elective. In addition, any course listed below may be used as a Philosophy Elective.

PHIL 111 - Introduction to Philosophy
PHIL 212 - Inductive Logic
PHIL 213 - Introduction to Deductive Logic

PHIL 226 - Philosophy and Film
PHIL 228 - Philosophy and Literature
PHIL 301 - Medieval Western Philosophy
PHIL 302 - Hellenistic Philosophy
PHIL 303 - Nineteenth Century Western Philosophy
PHIL 305 - Existentialism
PHIL 306 - American Philosophy
PHIL 308 - Twentieth Century European Philosophy
PHIL 309 - Twentieth Century Analytic Philosophy
PHIL 314 - Philosophy of Science
PHIL 316 - Philosophy of Biology
PHIL 325 - Philosophy of Art
PHIL 348 - Law and Society
PHIL 495 - Independent Readings
PHIL 498 - Legal Theory

A grade of C or above must be earned in all Philosophy courses to count toward the required 33 hours.

Other Program Requirements

- Minor (18-24 hours)
- For BA:
  - 8 hours Foreign Language
  - 6 additional courses (18 hours) in Humanities or Fine and Performing Arts (may include Philosophy courses)
  - Additional electives (20-26 hours)
- For BS:
  - Second LAB experience
  - 8 courses (24 hours) in Life, Physical, or Social Sciences
  - Additional Electives (12-18 hours)

BA in Philosophy with Law Specialization

To complete a BA in Philosophy with a Law specialization, all the requirements for a standard BA in Philosophy must be satisfied (including 33 required credit hours with a C or better, a minor, and 8 hours of Foreign Language). Because the Law specialization includes a foreign language requirement, only the BA (and not the BS) has a Law specialization option. The standard BA requirements include a History of Philosophy sequence (6 hours), PHIL 480 (3 hours) and PHIL 490 (3 hours), 12 hours selected from 4 subject areas, and 9 hours of PHIL electives. The requirements for the Law specialization include 9 hours of required courses (6 of which replace electives and 3 of which may be applied to the Value Theory Area), 3 hours from a new subject area in Political and Legal Theory (replaces the remaining elective), and 3 hours in the Metaphysics and Epistemology area that must be satisfied by selecting one of two courses in that area.
For the Law specialization, courses selected to satisfy the requirements for the standard BA in Philosophy must include the following 15 hours:

**Required Course (9 hours)**
- PHIL 213 - Introduction to Deductive Logic
- PHIL 343 - Philosophy of Law (same as POLS 391)
- PHIL 320 - Ethics (satisfies Value Theory area)

**Political and Legal Theory Area (3 hours)**
- PHIL 340 - Social and Political Philosophy
- PHIL 440 - Classical Political Theory (same as POLS 484)
- PHIL 441 - Modern Political Theory (same as POLS 485)
- PHIL 498 - Legal Theory (same as POLS 498)

**Metaphysics and Epistemology Area (3 hours)**
- PHIL 310 - Theories of Knowledge
- PHIL 355 - Philosophy of Language

**Minor (18-24 hours)**
As with the standard Philosophy BA, the Law specialization requires a minor. Students completing the BA in Philosophy with a Law specialization will have satisfied coursework in two of the five areas of the Pre-Law minor (PHIL 213 satisfies the Critical Thinking requirement; PHIL 343 satisfies the Theory and Application of Law requirement), and will need to complete 5 additional courses outside of Philosophy to complete the Pre-Law minor. See the Pre-Law section of the Undergraduate Catalog for details. The following are also excellent choices for a minor or a second major, since these courses of study (along with Philosophy) are correlated with high law school acceptance rates and high LSAT scores:
- English
- Economics
- History
- Political Science

### Sample Curriculum for the Bachelor of Arts in Philosophy

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>ENG 101 - English Composition I</td>
<td>ENG 102 - English Composition II</td>
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<tr>
<td>Foreign Language 101 (BICS)</td>
<td>Foreign Language 102 (BICS, EGC)</td>
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<td>RA 101 - Reasoning and Argumentation or PHIL 212</td>
<td>ACS 101 or 103 - Oral Expression</td>
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<tr>
<td>QR 101 - Quantitative Reasoning, MATH 150 or Higher</td>
<td>Breadth Life Science (BLS)</td>
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<tr>
<td>New Freshman Seminar</td>
<td>100-200 level PHIL Elective (BHUM)</td>
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<td>PHIL 307 or PHIL 304 (BHUM)</td>
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<td>Breadth Fine and Performing Arts (BFPA)</td>
<td>PHIL (Value Theory) (BHUM)</td>
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<tr>
<td>Breadth Physical Science (BPS)</td>
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<tr>
<td>Life, Physical or Social Science with Lab Experience (EL)</td>
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<tr>
<td>Breadth Social Science (BSS)</td>
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<tr>
<td>PHIL (Metaphysics and Epistemology) (BHUM)</td>
<td>PHIL (Cultural Pluralism) (BHUM, EUSC)</td>
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<td>PHIL Elective (BHUM)</td>
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<td>PHIL 480 - Senior Assignment (SRA)</td>
<td>PHIL 490 - Philosophy Seminar</td>
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## Sample Curriculum for the Bachelor of Arts in Philosophy with specialization in Law

### Fall Semester

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<tr>
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<tr>
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<td>LAT 101 or other Foreign Language (BICS)</td>
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<tr>
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200 Southern Illinois University Edwardsville
## Sample Curriculum for the Bachelor of Science in Philosophy

### Fall Semester

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<tbody>
<tr>
<td>ENG 101 - English Composition I</td>
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<td>RA 101 - Reasoning and Argumentation or PHIL 213</td>
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<td>QR 101 - Quantitative Reasoning, MATH 150 or Higher</td>
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<td>PHIL (Metaphysics and Epistemology)</td>
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<tbody>
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<td>PHIL 480 - Senior Assignment (SRA)</td>
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### Spring Semester

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<td>Life Science (BLS)</td>
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<td>Breadth Information &amp; Communication in Society (BICS) (PHIL 213)</td>
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<td><strong>Total</strong></td>
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### Foreign Language
It is recommended that students satisfy the 8 hours of foreign language required for the BA with Latin 101 and Latin 102.

### Philosophy Minor Requirements

#### Admission
Students must successfully complete RA 101 or any PHIL course with a C or better before applying for a minor in philosophy.

- **Note:** RA 101 does not count for credit toward the minor in philosophy.

#### Courses Required
A minor in philosophy consists of successful completion (C or better) of 18 hours in philosophy, including three different courses in three of the following: History of Philosophy, Metaphysics and Epistemology Area, Value Theory Area, Cultural Pluralism Area, Religion Area.

### Graduation Requirements
- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - Bachelor of Arts only: one year of the same foreign language
  - Bachelor of Science only: one additional LAB experience course
- File an Application for Graduation by the first day of the term in which you plan to graduate.
The Department of Physics offers the Bachelor of Science degree with the following options:
1. Standard,
2. With Specialization in Astronomy,
3. With Specialization in Biomedical Physics,
4. With Specialization in Photonics and Lasers Physics.

Students interested in the Secondary Education Teacher Licensure should complete the traditional BS in Physics and subsequently enroll in a MAT program.

The Bachelor of Science degree is recommended for those students planning to work in industry immediately upon graduating, or for those students who wish to pursue graduate studies in Physics.

The Physics Department maintains teaching and research laboratories in which students develop measurement and data-analysis skills. Seniors develop individual research projects suited to their interests. The department provides experimental research opportunities in the areas of nonlinear optics, nonlinear optical properties of materials and holographic data storage, ultrafast spectroscopy, electro-optical properties and phase transitions of liquid crystal composite materials, studies of the photon yields of scintillating optical fibers, the magneto-optic Kerr effect, eclipsing binary stars & exoplanet research, and biophysical characterization and 3D structure determination of proteins using x-ray crystallography, molecular biology, biochemistry, molecular biology, biochemistry, molecular docking, and computational modeling. Our theoretical group offers research opportunities in optical properties of solids Modeling and design ultra-intense lasers, and modeling ultra-intense light-matter interactions.

The department has an active Physics Education Research group studying problem-solving in physics; implementing and developing novel and inquiry-based curriculum, and developing reliable and valid assessments.

The department also maintains a supercomputer cluster used for modeling and computational physics research, a fully automated and remotely controlled state-of-the-art observatory, and a high power x-ray facility.

Career Opportunities
A B.S. degree in Physics opens the door to a variety of scientific and technical careers. Holders of the B.S. degree in Physics are employed in corporate and national research
laboratories, and often work with other scientists and engineers. Such employment possibilities include technical and/or research and development responsibilities as part of a team in areas as diverse as lasers and electro-optics, experimental particle physics detector development, Biomedical work, complex computer programming and/or data analysis related to physics or astronomy experiments, and more. In addition, because of the extensive training and practice in solving complex problems that physics majors obtain en route to the B.S. degree, employers in a very wide variety of fields often favor employing physics majors. As just two examples, holders of the physics B.S. degree have been very successfully employed in careers in finance and in engineering. Probably for the same reason, on average, physics majors score higher on the medical school MCAT admissions exam than majors in any other discipline.

Many students choose to continue their education by pursuing graduate studies. The B.S. degree in physics is generally required or strongly recommended for admission to graduate study in Physics, which, in turn, is generally required for qualification to hold a University faculty position in physics. The B.S. degree in Physics is also strongly recommended for teaching physics in secondary school. In fact, because of the fundamental nature of the subject and the extensive training in scientific reasoning, a Bachelor’s degree in Physics is an ideal point of departure for specialized study in almost any field, from astronomy to philosophy to music.

Degree Programs
Bachelor of Science, Physics
Bachelor of Science in Physics, Specialization in Astronomy
Bachelor of Science in Physics, Specialization in Biomedical Physics
Bachelor of Science in Physics, Specialization in Photonics and Lasers
Bachelor of Science, Earth and Space Science Education, Professional Educator Licensure (9-12)

Program Overview and General Department Information
Admission
High school students who plan to major in Physics should complete at least three years of college preparatory mathematics (two years of algebra and one year of geometry) before entering the University. A fourth year of college preparatory mathematics (to include trigonometry) and one year of physics and chemistry are strongly recommended.

Admission to a degree program in Physics requires an application for a major and acceptance by the department. Once admitted, students are formally affiliated with the department and assigned an academic advisor in the College of Arts & Sciences. Advisement is mandatory; majors are permitted to register each term only after meeting with an academic advisor. Because the study of science is progressive, students are encouraged to select their major field of study early in their academic careers to ensure orderly progress toward meeting degree requirements. To be admitted, students already enrolled in the University must have a minimum grade point average of 2.0 in science and mathematics courses completed as well as a cumulative grade point average of 2.0 or higher in all courses taken at SIUE.

Retention
Students should show satisfactory academic progress to be retained in a degree program. Students may be dropped from the program for any one of the following circumstances:
- Grade point average of 1.0 or below in any term;
- Cumulative grade point average below 2.0 in the major at any time;
- Withdrawal, incomplete, and a combination of failing grades in 50 percent or more of the courses for which the student is registered during two successive terms;
- Any combination of two withdrawals, incompletes, or failing grades in any single required course in the major discipline.

For readmission, students must meet the same admission requirements as students entering the program for the first time.

Transfer
Transfer students should have a 2.0 grade point average in science and mathematics courses as well as a 2.0 average in courses taken at other colleges and universities.

General Education Requirements for the Major
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements all physics majors are required to complete the following:
### Degree Requirements, Bachelor of Science Physics

<table>
<thead>
<tr>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>CHEM 135</td>
<td>CS 145</td>
<td>MATH 150</td>
</tr>
<tr>
<td>MATH 152</td>
<td>MATH 250</td>
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<td>MATH 321</td>
</tr>
<tr>
<td>ENG 334</td>
<td>PHYS 120</td>
<td>PHYS 151</td>
<td>PHYS 151L</td>
</tr>
<tr>
<td>PHYS 152</td>
<td>PHYS 152L</td>
<td>PHYS 201</td>
<td>PHYS 201L</td>
</tr>
<tr>
<td>PHYS 251</td>
<td>PHYS 304</td>
<td>PHYS 314</td>
<td>PHYS 318</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>PHYS 323</td>
<td>PHYS 376</td>
<td>PHYS 406</td>
</tr>
<tr>
<td>PHYS 416</td>
<td>PHYS 499a</td>
<td>IS 364</td>
<td></td>
</tr>
</tbody>
</table>

**Elective 1**: PHYS 240 or 410

**Elective 2**: One of the following - PHYS 230, 343, 397, 398, 442, 450, 472, 497, 498.

### Degree Requirements, Bachelor of Science Physics with Specialization in Astronomy

<table>
<thead>
<tr>
<th>Course 1</th>
<th>Course 2</th>
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<tr>
<td>CHEM 131</td>
<td>CHEM 135</td>
<td>CS 145</td>
<td>MATH 150</td>
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<tr>
<td>MATH 152</td>
<td>MATH 250</td>
<td>MATH 305</td>
<td>MATH 321</td>
</tr>
<tr>
<td>ENG 334</td>
<td>PHYS 120</td>
<td>PHYS 151</td>
<td>PHYS 151L</td>
</tr>
<tr>
<td>PHYS 152</td>
<td>PHYS 152L</td>
<td>PHYS 201</td>
<td>PHYS 201L</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>PHYS 251</td>
<td>PHYS 304</td>
<td>PHYS 318</td>
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<td>PHYS 321</td>
<td>PHYS 323</td>
<td>PHYS 376</td>
<td>PHYS 406</td>
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<tr>
<td>PHYS 416</td>
<td>PHYS 410</td>
<td>PHYS 343</td>
<td>PHYS 499a</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IS 364</td>
</tr>
</tbody>
</table>

**Elective 1**: One of the following - PHYS 240, 314, 343, 396, 397, 398, 442, 450, 472, 493, 497, 498.

### Degree Requirements, Bachelor of Science Physics with Specialization in Biomedical Physics

<table>
<thead>
<tr>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121a</td>
<td>CHEM 125a</td>
<td>CHEM 241a</td>
<td>CS 145</td>
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<tr>
<td>BIOL 150</td>
<td>MATH 152</td>
<td>MATH 250</td>
<td>MATH 305</td>
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<td>MATH 321</td>
<td>ENG 334</td>
<td>PHYS 120</td>
<td>PHYS 151</td>
</tr>
<tr>
<td>PHYS 151L</td>
<td>PHYS 152L</td>
<td>PHYS 201</td>
<td>PHYS 201L</td>
</tr>
<tr>
<td>PHYS 201L</td>
<td>PHYS 240</td>
<td>PHYS 251</td>
<td>PHYS 304</td>
</tr>
<tr>
<td>PHYS 318</td>
<td>PHYS 321</td>
<td>PHYS 323</td>
<td>PHYS 406</td>
</tr>
</tbody>
</table>

### Sample Curriculum for the Bachelor of Science in Physics - Standard

#### Fall Semester

**Year 1**

<table>
<thead>
<tr>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 120</td>
<td>– Frontiers in Physics: Past and Present</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHEM 131</td>
<td>– Engineering Chemistry</td>
<td>4</td>
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<tr>
<td>CHEM 135</td>
<td>– Engineering Chemistry Lab (EL)</td>
<td>1</td>
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<tr>
<td>MATH 150</td>
<td>– Calculus I (QR)</td>
<td>5</td>
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<tr>
<td>ENG 101</td>
<td>– Composition</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Total** 16

**Year 2**

<table>
<thead>
<tr>
<th>Course 1</th>
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<th>Course 4</th>
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<tbody>
<tr>
<td>PHYS 152</td>
<td>– University Physics II (BPS)</td>
<td>4</td>
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<tr>
<td>PHYS 152L</td>
<td>– University Physics II Laboratory (EL)</td>
<td>1</td>
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</tr>
<tr>
<td>MATH 250</td>
<td>– Calculus III (BPS)</td>
<td>5</td>
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<tr>
<td>MATH 321</td>
<td>– Linear Algebra I</td>
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<tr>
<td>RA 101</td>
<td>– Reasoning &amp; Argumentation</td>
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**Total** 15

#### Spring Semester

**Year 1**

<table>
<thead>
<tr>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>– Composition II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ACS 101</td>
<td>or 103</td>
<td>– Oral Expression</td>
<td>3</td>
</tr>
<tr>
<td>MATH 152</td>
<td>– Calculus II (BPS)</td>
<td>5</td>
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</tr>
<tr>
<td>PHYS 151</td>
<td>– University Physics I (BPS)</td>
<td>4</td>
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</tr>
<tr>
<td>PHYS 151L</td>
<td>– University Physics I Laboratory (EL)</td>
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**Total** 16

**Year 2**

<table>
<thead>
<tr>
<th>Course 1</th>
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<th>Course 4</th>
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<tbody>
<tr>
<td>PHYS 201</td>
<td>– University Physics III (BPS)</td>
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<tr>
<td>PHYS 201L</td>
<td>– University Physics III Laboratory (EL)</td>
<td>1</td>
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</tr>
<tr>
<td>PHYS 251</td>
<td>– Waves</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 305</td>
<td>– Differential Equations</td>
<td>3</td>
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<tr>
<td>Breadth Humanities (BHUM)</td>
<td>3</td>
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</tr>
</tbody>
</table>

**Total** 15
# Sample Curriculum for the Bachelor of Science in Physics - Standard cont.

## Fall Semester

**Year 3**  
- PHYS 416 – Principles of Quantum Mechanics  
- PHYS 304 – Intro to Quantum Physics  
- PHYS 321- Intro to Classical Mechanics  
- Elective 1*  
- **Total**  

**Year 4**  
- IS 364 - The Atomic Era  
- Fine & Performing Arts (BFPA)  
- Breadth Life Science and Health Experience (BLS, EH)  
- Elective  
- PHYS 499a – Senior Assignment Project: Part I  
- **Total**  

* Elective 1: PHYS 240 or 410  
* Elective 2: Choose one of the following: PHYS 230, 343, 397, 398, 442, 450, 472, 497, 498

## Spring Semester

**Year 3**  
- PHYS 376 - Career Preparation in Physics  
- CS 145 - Introduction to Computing  
- ENG 334 - Scientific Writing  
- **Total**  

**Year 4**  
- PHYS 314 – Modern Data Acquisition (Even Year)  
- PHYS 318 - Theory & App of Elect Meas (Even Year)  
- PHYS 406 - Electromagnetic Fields and Waves (Odd Year)  
- Elective  
- **Total**  

## Sample Curriculum for the Bachelor of Science in Physics - Specialization in Astronomy

### Fall Semester

**Year 1**  
- PHYS 120 – Frontiers in Physics: Past and Present  
- CHEM 131 -Engineering Chemistry,  
- CHEM 135 -Engineering Chemistry Lab (EL)  
- MATH 150 – Calculus I (QR)  
- ENG 101 – Composition  
- **Total**  

**Year 2**  
- PHYS 152 – University Physics II (BPS)  
- PHYS 152L – University Physics II Laboratory (EL)  
- MATH 250 – Calculus III (BPS)  
- MATH 321 - Linear Algebra I  
- RA 101 - Reasoning & Argumentation  
- **Total**  

**Year 3**  
- PHYS 416 - Principles of Quantum Mechanics (Even Year)  
- PHYS 304 – Intro to Quantum Physics  
- PHYS 321- Intro to Classical Mechanics  
- PHYS 410 - Optics (Odd Year)  
- Elective  
- Breadth Humanities (BHUM) (Even Year)  
- **Total**

### Spring Semester

**Year 1**  
- EN 102 - Composition II  
- ACS 101 or 103 - Oral Expression  
- MATH 152 – Calculus II (BPS)  
- PHYS 151 – University Physics I (BPS)  
- **Total**

**Year 2**  
- PHYS 201L – University Physics I Laboratory (EL)  
- PHYS 201 – University Physics I (BPS)  
- MATH 305 – Differential Equations  
- Elective* (even Year)  
- **Total**  

**Year 3**  
- PHYS 323 - Statistical Mechanics (Odd Year)  
- PHYS 318 - Theory & App of Elect Meas (Even Year)  
- Elective* (Even Year)  
- **Total**  

**Year 4**  
- PHYS 201L – University Physics III Laboratory (EL)  
- PHYS 201L – University Physics III (BPS)  
- MATH 305 – Differential Equations  
- Elective* (even Year)  
- **Total**

* Elective: PHYS 230, 343, 397, 398, 442, 450, 472, 497, 498

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2018-2019 Undergraduate Catalog
Sample Curriculum for the Bachelor of Science in Physics - Specialization in Astronomy cont.

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 4</strong></td>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td>CS 145 - Introduction to Computing</td>
<td>PHYS 343 - Stellar Astronomy and Astrophysics (Even Year)</td>
</tr>
<tr>
<td>IS 364 - The Atomic Era</td>
<td>PHYS 318 – Theory &amp; App of Elect Measure (Even Year)</td>
</tr>
<tr>
<td>PHYS 410 - Optics (Odd Year)</td>
<td>PHYS 323 - Statistical Mechanics (Odd Year)</td>
</tr>
<tr>
<td>OR Humanities (BHUM) (Even Year)</td>
<td>PHYS 406 - Electromagnetic Fields and Waves (Odd Year)</td>
</tr>
<tr>
<td>Breadth Life Science and Health Experience (BLS, EH)</td>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
</tr>
<tr>
<td>PHYS 499a – Senior Assignment Project: Part I</td>
<td>Breadth Social Sciences (BSS)</td>
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<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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</tbody>
</table>

Elective *: One of the following - PHYS 240, 314, 396, 397, 398, 442, 450, 472, 496, 497, 498.

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Sample Curriculum for the Bachelor of Science in Physics - Specialization in Biomedical Physics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>PHYS 120 – Frontiers in Physics: Past and Present</td>
<td>CHEM 121b - General Chemistry II</td>
</tr>
<tr>
<td>CHEM 121a - General Chemistry I</td>
<td>CHEM 125b – General Chemistry Lab II (EL)</td>
</tr>
<tr>
<td>CHEM 125a – General Chemistry Lab I (EL)</td>
<td>MATH 152 – Calculus II (BPS)</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>PHYS 151 – University Physics I (BPS)</td>
</tr>
<tr>
<td>ENG 101 – Composition</td>
<td>PHYS 151L – University Physics I Laboratory (EL)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Elective1*: Choose one of the following: PHYS 230, 343, 392, 410, 416, 472, 492

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* Elective1: Choose one of the following: PHYS 230, 314, 343, 392, 410, 416, 472, 492

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Southern Illinois University Edwardsville
Sample Curriculum for the Bachelor of Science in Physics - Specialization in Photonics and Laser Physics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Year 1</td>
</tr>
<tr>
<td>PHYS 120 - Frontiers in Physics: Past and Present</td>
<td>ENG 102 - Composition II</td>
</tr>
<tr>
<td>CHEM 131 - Engineering Chemistry</td>
<td>ACS 101 or 103 - Oral Expression</td>
</tr>
<tr>
<td>CHEM 135 - Engineering Chemistry Lab (EL)</td>
<td>MATH 152 – Calculus II (BPS)</td>
</tr>
<tr>
<td>MATH 150 – Calculus I (QR)</td>
<td>PHYS 151 – University Physics I (BPS)</td>
</tr>
<tr>
<td>ENG 101 – Composition</td>
<td>PHYS 151L – University Physics I Laboratory (EL)</td>
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</tr>
<tr>
<td>Year 2</td>
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</tr>
<tr>
<td>PHYS 152 – University Physics II (BPS)</td>
<td>PHYS 201 – University Physics III (BPS)</td>
</tr>
<tr>
<td>PHYS 152L – University Physics II Laboratory (EL)</td>
<td>PHYS 201L – University Physics III Laboratory (EL)</td>
</tr>
<tr>
<td>MATH 250 – Calculus III (BPS)</td>
<td>PHYS 251 – Waves</td>
</tr>
<tr>
<td>MATH 321 - Linear Algebra I</td>
<td>MATH 305 – Differential Equations</td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation</td>
<td>Breadth Humanities (BHUM)</td>
</tr>
<tr>
<td>Total 15</td>
<td>Total 15</td>
</tr>
<tr>
<td>Year 3</td>
<td>Year 3</td>
</tr>
<tr>
<td>PHYS 304 – Intro to Quantum Physics</td>
<td>Life Sciences and Health Experience (EH) (Odd Year)</td>
</tr>
<tr>
<td>PHYS 321- Intro to Classical Mechanics</td>
<td>PHYS 323 - Statistical Mechanics (Odd Year)</td>
</tr>
<tr>
<td>PHYS 416 – Principles of Quantum Mechanics</td>
<td>PHYS 406 - Electromagnetic Fields and Waves (Odd Year)</td>
</tr>
<tr>
<td>PHYS 410 - Optics (Odd Year)</td>
<td>OR</td>
</tr>
<tr>
<td>OR</td>
<td>PHYS 314 - Modern Data Acquisition (Even Year)</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA) (Even Year)</td>
<td>PHYS 472 - Photonics Laboratory (Even Year)</td>
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<td>PHYS 316 – Theory &amp; App of Elect Measure (Even Year)</td>
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</tr>
<tr>
<td>Year 4</td>
<td>Year 4</td>
</tr>
<tr>
<td>CS 145 - Introduction to Computing</td>
<td>PHYS 323 - Statistical Mechanics (Odd Year)</td>
</tr>
<tr>
<td>IS 364 - The Atomic Era</td>
<td>PHYS 406 - Electromagnetic Fields and Waves (Odd Year)</td>
</tr>
<tr>
<td>PHYS 410 - Optics (Odd Year)</td>
<td>Life Sciences &amp; Health Experience (BS, EH) (Odd Year)</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
<td>OR</td>
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<tr>
<td>Elective*</td>
<td>PHYS 416 - Principles of Quantum Mechanics (Even Year)</td>
</tr>
<tr>
<td>PHYS 499a – Senior Assignment Project: Part I</td>
<td>PHYS 472 - Photonics Laboratory (Even Year)</td>
</tr>
<tr>
<td>Total 15</td>
<td>Total 15</td>
</tr>
</tbody>
</table>

Elective *: One of the following - PHYS 230, 240, 343, 393, 397, 398, 442, 450, 472, 493, 497, 498.

### Minor Requirements

The minor program in physics consists of at least 20 hours with a grade point average of 2.0 or higher in the following courses:

**All these courses**

- PHYS 151 – University Physics I
- PHYS 152 – University Physics II
- PHYS 151L – University Physics I Laboratory
- PHYS 152L – University Physics II Laboratory
- PHYS 201- University Physics III
- PHYS 201L – University Physics III Laboratory
- PHYS 251- Waves

### And at least one of the following

- PHYS 230 - Planetary and Solar System Astronomy
- PHYS 240 - Introduction to Biomedical Physics
- PHYS 304 – Intro to Quantum Physics
- PHYS 314 - Modern Data Acquisition
- PHYS 318 – Theory & Application of Electronic Measure
- PHYS 320 – Special Relativity
- PHYS 321 - Mechanics
- PHYS 323 – Statistical Mechanics
- PHYS 406 - Electromagnetic Fields and Waves
- PHYS 410 – Optics
- PHYS 416 – Quantum Mechanics
PHYS 419 – Mathematical Physics
PHYS 430 – Intro to Physics Education
Research
PHYS 450 – Solid State Physics

At least 6 hours of the above courses must be SIUE credit. The physics undergraduate advisory committee must approve any exceptions to the requirements listed above for the physics minor program.

Graduation Requirements
The following requirements must be met in order to obtain a degree in physics:

- Earn a minimum of 120 hours of acceptable credit with a cumulative grade point average of 2.0 or higher;
- Complete the minimum number of credit hours required for a particular degree;
- Complete at least 12 hours of SIUE credit in major courses numbered above 299 with a cumulative grade point average of 2.0 or above;
- Earn a grade of “C” or better in all major courses numbered above 200;
- Complete at least 6 hours of credit in major courses numbered above 299 earned at SIUE within 2 years preceding graduation.

Duplicate credits of several types are not applicable toward graduation requirements: credit hours earned (through proficiency, transfer, CLEP, or from a course) after credit has been received for similar or more advanced coursework in the same subject at SIUE or elsewhere.

Earth and Space Science Education
Degree Requirements B.S. Earth and Space Science Education, Professional Educator Licensure (9-12):

<table>
<thead>
<tr>
<th>BIOL150</th>
<th>BIOL151</th>
<th>CHEM 121a,b</th>
<th>CHEM 125a,b</th>
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</thead>
<tbody>
<tr>
<td>CIED 100</td>
<td>CI 315a,b</td>
<td>CI 352</td>
<td>CIED 323</td>
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<tr>
<td>EPFR 315</td>
<td>EPFR 320</td>
<td>ESCI111</td>
<td>GEOG 202</td>
</tr>
</tbody>
</table>

Requirements for students seeking Professional Educator Licensure
Admission to a teacher education program is a joint decision by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to the teacher education program, as soon as they know they would like to pursue this option. Scheduling required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing the Professional Educator License.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, so the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website [http://www.siue.edu/education/](http://www.siue.edu/education/), and by making an appointment with a School of Education Health and Human Behavior advisor.

B.S. in Physics with Teacher Licensure (6-12)
Students interested in teacher licensure (9-12) are encouraged to complete the traditional BS in Physics then apply to a MAT program.
Sample Curriculum for the Bachelor of Science in Earth and Space Science Education cont.

### Fall Semester

**Year 2**
- BIOL 151 – Intro Biol Sciences II (BLS, EL) ........................................ 4
- CIED 100 – Introduction to Education .................................................... 3
- ESCI 111 – Intro/Physical Geology & Geography (BPS, EL) .................. 3
- PHYS 131/131L – College Physics I (BPS) ............................................. 5
- Complete ILTS Test of Academic Proficiency (formerly the Basic Skills Test) for Admission to the Teacher Certification Program

**Total** .................................................................................................. 15

**Year 3**
- PHYS 118 - Astronomy ............................................................................. 3
- GEOG 202 – Resource Use and Management ......................................... 3
- GEOG 314 – Climatology (PS) ................................................................. 3
- Breadth Fine & Performing Arts (BFPA) ................................................. 3
- IS 364 – The Atomic Era (EGC) (IS) ....................................................... 3

**Total** .................................................................................................. 15

**Year 4**
- CHEM 494 or PHYS 494 – Methods of Teaching Chemistry or Physics in Secondary Schools .......................................................... 3
- CI 315a – Methods for Teaching in Secondary Schools ......................... 2
- CI 440 – Teaching Reading in Secondary School ..................................... 3
- EPFR 315 – Educational Psychology ....................................................... 3
- EPFR 320 – Foundations of Education in a Multicultural Society ............ 3
- SPE 400 – The Exceptional Child ............................................................. 3

**Total** .................................................................................................. 17

### Spring Semester

**Year 2**
- GEOG 210 – Physical Geography (BPS) ................................................. 3
- PHYS 132/132L – College Physics II (BPS) ............................................. 5
- STAT 244 - Statistics (BICS) ................................................................. 4
- GEOG 211 - Meteorology (BPS, EL) ....................................................... 3

**Total** .................................................................................................. 15

**Year 3**
- PHYS 230 - Planetary and Solar System (Odd Year) ............................. 3
  OR
- SCI 451 – Integrated Science (Even Year) ............................................ 3
- Health Experience (EH) ....................................................................... 3
- Breadth Humanities (BHUM) .............................................................. 3
- ENG 334 - Scientific Writing ................................................................. 3

**Total** .................................................................................................. 12

**Year 4**
- CI 315b – Methods for Teaching in Secondary Schools ....................... 2
- CI 352 – Student Teaching ..................................................................... 10

**Total** .................................................................................................. 12

### Graduation Requirements

The following requirements must be met in order to obtain a degree in physics:

- Complete program requirements with a C or better in Earth & Space Science Education courses for the major and Professional Education courses;
- A minimum cumulative grade point average of 2.5;
- Complete all University requirements including:
- General Education Requirements
  - Bachelor of Science: Complete 8 courses of Life/Physical/Social Science (LS, PS, SS), including two courses with a laboratory experience (EL)
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
- File an Application for Graduation by the first day of the term in which you plan to graduate

---

### Political Science

Peck Hall, Room 3234
siue.edu/artsandsciences/politicalscience

#### Professors
DeGarmo, Denise K., Ph.D., 2001, University of Michigan
Guehlstorf, Nicholas P., Ph.D., 2002, Purdue University

#### Associate Professors
Moffett, Kenneth W., Ph.D., 2006, University of Iowa
Rice, Laurie L., Ph.D., 2005, University of California, San Diego
Theising, Andrew J., Ph.D., 1997, University of Missouri-St. Louis (Chair)

#### Assistant Professors
Weeraratne, Suranjan, Ph.D., 2009, McGill University
Wilson, Sophia, Ph.D., 2011, University of Washington
government allows students to work in the offices of local, county or state officials.

**Career Opportunities**

Students who major in political science have entered careers in business, government service (at the federal, state and local levels), law, teaching, journalism, and nonprofit/private interest groups. The department offers a program in teacher licensure (9-12). Recent projections by government agencies indicate demand for government employees will continue near the present level for lawyers and for college graduates interested in careers in government. A major in political science provides knowledge and skills to navigate political systems, institutional processes, and scientific research. Such students also will have an opportunity to develop specialized knowledge in a number of policy areas.

Business organizations, especially those that are heavily-regulated like insurance and banking, call for political science skills. Many students have found this major useful preparation for law school and the practice of law. In all these areas, experience gained in an internship can be a significant advantage.

In addition to providing preparation for specific careers, a major in political science can provide general career-building skills. Courses that focus on the analysis of political and social data help students develop analytical and reasoning skills. Other courses focus on leadership and decision-making in organizations generally. Students also can become familiar with statistical techniques and computer use, and develop writing skills.

**Degree Programs**

Bachelor of Arts, Political Science
Bachelor of Science, Political Science
Professional Educator Licensure (9-12) option

**Program Overview and General Department Information**

**Admission**

Students applying for a major or minor in political science must have:

- completed the General Education requirements for writing skills (ENG 101 and 102 or equivalent);
- resolved all high school course deficiencies; and
- a minimum overall G.P.A of 2.0. This requirement also applies to any transfer G.P.A.
Retention
Students must maintain a cumulative grade point average of at least 2.0 to remain in good academic standing. Students whose cumulative grade point average falls below 2.0 will be placed on academic probation, returned to undeclared status and limited to a maximum of 12 hours of enrollment per term.

Transfer
Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet.

For more information regarding transfer, please visit www.siue.edu/transfer.

General Education Requirements
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

Degree Requirements
General Education Requirements*
Major Requirements (33 hours)
POLS 111  POLS 112  POLS 300  POLS 400
A minimum of 3 hours in four of the following six fields:
American Government and Politics
340 – The Presidency
341 – Congress and Legislation
342 – American Public Policy
343 – American State Politics
344 – Urban Politics
345 – Parties and Interest Groups
346 – Public Opinion
390 – The Judicial System
400 – African American Politics
441 – Women and Politics in America
445 – Voting and Elections
449 – Topics in American Politics
Comparative Politics
350 – Political Systems of Western Europe
351 – Eastern European Political Systems in Transition
352 – Politics of Development
354 – Women and Cross-National Politics
355 – Political Systems of Latin America
356 – Political Systems of Asia
459 – Topics in Comparative Politics
International Relations
Intro to International Relations
371 – International Political Economy
472 – International Organizations
473 – U.S. Foreign Policy
479 – Topics in International Relations
Political Analysis
400 - Political Science Senior Assignment
449 - Topics in American Politics
Political Theory
385 – Introduction to Political Theory
386 – American Political Ideas and Origins
484 – Classical Political Theory
485 – Modern Political Theory
498 – Topics in Political Theory
Public Administration
320 – Introduction to Public Administration
424 – Administrative Law
429 – Topics in Public Administration
Public Law
292 – Legal Research, Analysis, and Writing
390 – The Judicial System
424 – Administrative Law
495 – Constitutional Law I
496 – Constitutional Law II
497 – Environmental Law
499 – Topics in Public Law
Additional Courses Available
150 – Introduction to Comparative Politics
310 – Independent Readings and Research
410 – Legal Internship (elective; not for major/minor credit)
411 – Internship in Government (elective; not for major/minor credit)

Required Minor (18-21 hours)
Electives (26-31 hours)
A minimum of 120 hours is required for the degree
* Students electing completion of a bachelor of arts degree must complete 8 courses in fine & performing arts or humanities including one year of the same foreign language.

Requirements for students seeking Teacher Licensure (9-12)
Students who intend to teach at the secondary level may complete the bachelor of science degree with a major in political science. The major constitutes the teaching field of concentration. Students pursuing this degree also must complete the Strong minor in Social Science Education as follows:
ANTH 111b – Human Culture & Communication
SOC 111 – Introduction to Sociology
ECON 111 – Macroeconomics
ECON 112 – Microeconomics
GEOG 201 – World Regions
GEOG 205 – Human Geography
GEOG 210 – Physical Geography
HIST 112A – World History
HIST 112B – World History
HIST 323 – History/Pedagogy

Two of these 111-numbered courses, outside of one’s major, may count toward Introductory credit in social science for general education, along with one of the courses in the minor numbered above 111, which may count toward distribution in social sciences. The following are required of all students including transfer students and those who already have a bachelor’s degree:
- Licensure requires a 2.75 GPA in political science courses, including those completed at past institutions.
- completion of the strong minor in social sciences.
- completion of social sciences/pedagogy before taking CI 352L, Student Teaching.
- approval by an interdisciplinary committee on teacher education and composed of representatives of the departments of Geography, Historical Studies and Political Science.

Returning students who hold a degree in political science must complete POLS 430, Review for Teacher Licensure.

**Requirements for students seeking Professional Educator Licensure**

Admission to a professional education program is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website [http://www.siue.edu/education/](http://www.siue.edu/education/), and by making an appointment with a School of Education Health and Human Behavior advisor.

## Sample Curriculum for the Bachelor of Arts or Bachelor of Science in Political Science

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>ENG 101 – English Composition I</td>
<td>POLS 111 – Intro to Political Science (BSS, EGC)</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>Fine &amp; Performing Arts (BFPA)</td>
<td>RA 101 - Reasoning &amp; Argumentation</td>
</tr>
<tr>
<td>Breadth Humanities (BHUM)/Experience United States</td>
<td>Breadth Life Science (BLS) with a Lab Experience (EL)</td>
</tr>
<tr>
<td>Cultures (EUSC)</td>
<td>Fine &amp; Performing Arts or Humanities (BA degree)</td>
</tr>
<tr>
<td>Breadth Information &amp; Communication in Society (BICS)</td>
<td>Total</td>
</tr>
<tr>
<td>Total</td>
<td>Year 2</td>
</tr>
<tr>
<td></td>
<td>POLS (Subfield #1).</td>
</tr>
<tr>
<td></td>
<td>Health Experience (EH)</td>
</tr>
<tr>
<td></td>
<td>Foreign Language 102 (BA degree)</td>
</tr>
<tr>
<td></td>
<td>Fine &amp; Performing Arts or Humanities (BA degree)</td>
</tr>
<tr>
<td></td>
<td>Minor.</td>
</tr>
<tr>
<td></td>
<td>Total.</td>
</tr>
<tr>
<td>Year 2</td>
<td>Year 3</td>
</tr>
<tr>
<td>POLS 112 – American National Government (BSS)</td>
<td>POLS (Subfield #3).</td>
</tr>
<tr>
<td>QR 101, MATH 150 or Higher</td>
<td>POLS Elective</td>
</tr>
<tr>
<td>Foreign Language 101 (BA degree) or Life, Physical or Social</td>
<td>Minor.</td>
</tr>
<tr>
<td>Science with a lab (EL) (BS degree)</td>
<td>Minor/Elective</td>
</tr>
<tr>
<td>Minor.</td>
<td>Fine &amp; Performing Arts or Humanities (BA degree)</td>
</tr>
<tr>
<td>Minor.</td>
<td>Total.</td>
</tr>
<tr>
<td>Total.</td>
<td>Year 3</td>
</tr>
<tr>
<td></td>
<td>POLS (Subfield #3).</td>
</tr>
<tr>
<td></td>
<td>POLS Elective</td>
</tr>
<tr>
<td></td>
<td>Minor.</td>
</tr>
<tr>
<td></td>
<td>Minor/Elective</td>
</tr>
<tr>
<td></td>
<td>Fine &amp; Performing Arts or Humanities (BA degree)</td>
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<tr>
<td></td>
<td>Total.</td>
</tr>
</tbody>
</table>

212 Southern Illinois University Edwardsville
### Sample Curriculum for the Bachelor of Arts or Bachelor of Science in Political Science cont.

<table>
<thead>
<tr>
<th>Year 4</th>
<th></th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>POLS (Subfield #4)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POLS 400 - Political Science Senior Assignment</td>
<td>3</td>
</tr>
<tr>
<td>Minor</td>
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<td>3</td>
</tr>
<tr>
<td>Elective</td>
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<td>2-3</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS)</td>
<td>3</td>
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<tr>
<td>Total</td>
<td></td>
<td>14-15</td>
</tr>
</tbody>
</table>

Students wishing to obtain a Bachelor of Arts degree may do so by adding one year of foreign language.

### Sample Curriculum for the Bachelor of Science in Political Science Education, Professional Educator Licensure (9-12)

#### Fall Semester

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 – English Composition I</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
</tr>
<tr>
<td>ANTH 111b – Intro to Human Culture &amp; Comm (BSS, EGC, EUSC)</td>
</tr>
<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
</tr>
<tr>
<td>Breadth Life Science (BLS)/Health Experience (EH)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 112 – American National Government (BSS)</td>
</tr>
<tr>
<td>ECON 111 – Principles of Macroeconomics (BSS)</td>
</tr>
<tr>
<td>GEOG 201 – World Regions (BSS, EGC)</td>
</tr>
<tr>
<td>GEOG 210 – Physical Geography (BPS)</td>
</tr>
<tr>
<td>QR 101, MATH 150 or Higher</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS (Subfield #2)</td>
</tr>
<tr>
<td>POLS Elective</td>
</tr>
<tr>
<td>EPFR 315 – Educational Psychology</td>
</tr>
<tr>
<td>EPFR 320 – Foundations of Education in a Multicultural Society</td>
</tr>
<tr>
<td>HIST 112a – World History (BHUM, EGC)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS (Subfield #4)</td>
</tr>
<tr>
<td>POLS 400 - Political Science Senior Assignment</td>
</tr>
<tr>
<td>CI 315a – Methods of Teaching in the Secondary School</td>
</tr>
<tr>
<td>CI 440 – Teaching Reading in the Secondary School</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 111 – Intro to Political Science (BSS, EGC)</td>
</tr>
<tr>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation</td>
</tr>
<tr>
<td>SOC 111 – Intro to Sociology (BSS)</td>
</tr>
<tr>
<td>Breadth Information &amp; Communication in Society (BICS)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS (Subfield #1)</td>
</tr>
<tr>
<td>POLS 300 (BSS)</td>
</tr>
<tr>
<td>CIED 100 Introduction to Education</td>
</tr>
<tr>
<td>ECON 112 – Principles of Microeconomics (BSS)</td>
</tr>
<tr>
<td>GEOG 205 – Human Geography (BSS, EGC, EL)</td>
</tr>
<tr>
<td>Life, Physical or Social Science with a lab (EL)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS (Subfield #3)</td>
</tr>
<tr>
<td>POLS Elective</td>
</tr>
<tr>
<td>POLS Elective</td>
</tr>
<tr>
<td>HIST 112b – World History (BHUM, EGC)</td>
</tr>
<tr>
<td>HIST 323 – History/Pedagogy</td>
</tr>
<tr>
<td>SPE 400 – The Exceptional Child</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI 315b – Methods of Teaching in the Secondary School</td>
</tr>
<tr>
<td>CI 352 – Student Teaching</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

### Minor Requirements

The requirements for a minor in political science include the following: a minimum of 18 hours, including POLS 111 and 112, and at least one course in three of the six areas of specialization. A minimum grade average of C is required in political science courses.

### Graduation Requirements

Students majoring in political science must complete a POLS 400 - Senior Assignment. Students must receive a grade of C or better in all Political Science courses that count toward the major or minor, with a minimum G.P.A of 2.0 in all Political Science classes taken at SIUE.
Pre-Law Preparation
Entrance into law school does not require any specific major or any specific course requirements. Law schools judge applicants based upon their cumulative grade point average and law school admission test (LSAT) scores. Students wishing to attend law school must obtain an undergraduate degree before entering law school. However, students typically apply to law school beginning in the fall of their senior year. To prepare for entrance, students are encouraged to take the law school admission test the June following their junior year, or in October of their senior year.

Many students find that undergraduate courses in philosophy, such as critical thinking, and courses in political science, history and English are helpful in law school. Any course emphasizing technical writing skills is especially helpful in law school. Students considering law should like working with people, enjoy reading, have good communication skills, and be excellent writers.

The University encourages students interested in a law career to participate in the Pre-Law Association. The association, together with Student Legal Services, sponsors an annual Pre-Law Night in the fall of each year, which brings recruiters from numerous law schools to campus to discuss admission to law school with interested students. The Pre-Law Association also visits area law schools and brings in speakers on law-related topics.

Social Work
Peck Hall, Room 1306
siue.edu/artsandsciences/socialwork

Professors
Brown, Venessa A. (Associate Chancellor), Ph.D., 1994, Clark Atlanta University
Kreuger, Larry, Ph.D., 1983, St. Louis University
O’Brien, Gerald V. (Chair), Ph.D., 1997, University of Illinois-Urbana

Associate Professors
Duckham, Bryan C. (MSW Program Director), Ph.D., 2007, Loyola University of Chicago

Assistant Professors
Carter, Kimberly A., PhD., 2010, Washington University
Schreiber, Jill, Ph.D, 2013, University of Illinois-Urbana

Swanke, Jayme R. (BSW Program Director), Ph.D., 2009, Southern Illinois University Carbondale
Wesley, Carol A., Ph.D., 1987, Saint Louis University (Director of Practica)

Program Description
The undergraduate social work program focuses on the knowledge, values, and skills needed for social work practice. Its primary purpose is to prepare graduates for entry-level direct practice in social work. The program also prepares students for graduate studies in advanced social work practice. The undergraduate program is accredited by the Council on Social Work Education (CSWE).

The Social Work program prepares generalist social workers for many types of practice, and offers opportunities to explore specific interests through the selection of electives and the field placement setting. The primary professional purpose of social work is to promote social functioning and enhance social development at all systems levels. The social worker acts as a facilitator of change with individuals, families, groups, organizations and communities; promotes improvement in social conditions; serves as an advocate for people who are subject to discrimination or social or economic injustice; and provides individuals access to needed resources and services. In addition to completing on-campus course work, social work students engage in field work in local social service agencies in several courses. This culminates in the senior field placement (SOCW 482 and 483), which requires a minimum of 400 hours of supervised social work practice in a local agency over two consecutive semesters.

Career Opportunities
The bachelor’s degree in social work qualifies graduates for practice in entry-level positions in a wide range of social service settings. Most graduates work in child welfare, family service, mental health or health agencies. The bachelor’s degree from a Council on Social Work Education (CSWE) accredited program qualifies graduates to take the licensed social worker (LSW) examination as stipulated by the Illinois Department of Professional Regulation. In addition, many graduate social work programs offer advanced standing to students with a bachelor’s degree in social work from a CSWE-accredited program.

Degree Program
Bachelor of Social Work
Program Overview and General Department Information

Admission

Beginning in Fall 2014, admission to the social work program is competitive. Students begin in the major during the fall semester of their junior year, and students must apply for admission by the end of January of the preceding spring semester (e.g., for Fall 2018 admission, students need to apply in January of 2018). To be admitted to the BSW program, students must submit through the SIUE Office of Academic Counseling and Advising the following information after two semesters of full-time college or university enrollment:

- An application to SIUE certifying their admission to the University;
- An academic transcript certifying that the student has a grade point average of 2.5 or better at the time of application for admission to the BSW Program;

In addition, students transferring to SIUE may apply for direct declaration when applying for admission to SIUE, but must go through the regular admissions process described herein.

To be eligible for admission to the BSW program, applicants must submit the following materials to the Social Work Department by the end of January of the spring semester that precedes their junior year fall enrollment:

- An application for the B.S.W. Program form which includes: a) general information about the student, and b) information related to prerequisites taken and c) GPA (minimum of 2.5).
- A 400 word personal statement that discusses why s/he is interested in Social Work.
- A signed statement that s/he has read and agrees to abide by the National Association of Social Workers (NASW) Code of Ethics and the SIUE Social Work Department BSW Behavior Policy.

Students applying for entry into the program must:

- Have a (GPA) of at least 2.5 and have completed the equivalent (30 hours) of two full-time semesters at any college or university.
- Demonstrate written proficiency in English by completing English Comp I and II with a grade of C or better.
- Demonstrate the ability to communicate clearly and effectively by completing an applied communication studies course in interpersonal communication with a grade of C or better.
- Read, sign and agree to abide by the National Association of Social Workers (NASW) Code of Ethics and the SIUE Social Work Department Standards for Social Work Education.

Application materials are reviewed for approval or denial by the BSW Admissions Committee, composed of the Director of the BSW Program and two members of the BSW Curriculum Policy and Planning Committee. Students who plan to enter the program are expected to meet with the Director of the BSW program prior to admission into the Program.

Decisions regarding admission to the major are made by the end of February, and students admitted will be allowed to declare as social work majors. Should spaces within the Program remain after this date, the program will continue to consider applications until spaces are filled.

Only students who have been admitted into the Program will be enrolled in the first major semester courses (SOCW 201, SOCW 211, and SOCW 302) in the fall term.

It is important that students become familiar with sequencing and required courses for this major as well as the required supporting courses offered which are listed in the Undergraduate Catalog and the BSW Handbook.

Retention

- Maintain overall and Social Work GPAs of 2.5;
- Complete all required social work courses and social work electives with a grade of C or above;
- Demonstrate professional behavior consistent with the National Association of Social Workers Code of Ethics and the SIUE Social Work Department Standards for Social Work Education.

Grade point averages are reviewed by the Director of the BSW Program following each semester. Students who fall below the required 2.5 GPA and/or are experiencing issues in professional development will be placed on department probation for one semester or may be terminated from the program. During their probationary period, students must meet...
regularly with their department mentor to monitor their progress and receive suggestions and advice toward regaining the required 2.5 GPA. Students who do not attain the required GPA of 2.5 or do not resolve their professional development issues following this probationary period may be dropped from the major and withdrawn from all social work courses. Students may re-apply to the social work program once their GPA has again reached the required 2.5 if they were dropped for academic reasons.

**Transfer**

Transfer course credit from other CSWE-accredited programs will be considered for acceptance toward the BSW degree from SIUE. No course credit will be awarded for work or life experience.

**General Education Requirements**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements all social work majors are required to complete the following:

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**Sample Curriculum for the Bachelor of Social Work**

**Fall Semester**

**Year 1**

- BIOL 111 – Contemporary Biology (BLS) .......................... 3
- ENG 101 – English Composition I ..................................... 3
- PSYC 111 – Introduction to Psychology (BSS) ..................... 3
- ACS 101 or 103 - Oral Expression ..................................... 3
- QR 101, MATH 150 or Higher ......................................... 3
  Total ............................................................................. 15

**Year 2**

- HIST 201 – U.S. History Since 1877 (BSS) ......................... 3
- PSYC 206 – Social Psychology (BSS) ................................. 3
- Breadth Physical Science (BPS) with a lab (EL) ................. 4
- Foreign Language 101 or BICS Elective ............................. 4
  Total ............................................................................. 14

**Year 3**

- SOCW 200 – Foundations of Social Work I .......................... 4
- SOCW 201 – Foundations of Social Work II .......................... 3
- SOCW 211 – Micro Skills of Counseling .............................. 3
- SOCW 302 – Human Behavior in Social Environments I ...... 3
- ENG 201 – Intermediate Composition (BHUM) .................. 3
  Total ............................................................................. 16

**Year 4**

- SOCW 400 – Social Work Practice III ............................... 3
- SOCW 482 – Field Instruction I ........................................ 4
- SOCW Elective ................................................................ 3
  Interdisciplinary Studies (IS) ............................................. 3
  Total ............................................................................. 16

**Spring Semester**

**Year 1**

- ANTH 111B – Human Culture & Communication (BSS, EGC, EUSC) ......................................................... 3
- ENG 102 – English Composition II ..................................... 3
- RA 101 - Reasoning & Argumentation .............................. 3
- POLS 112 – American National Government (BSS) .......... 3
  Total ............................................................................. 12

**Year 2**

- Elective ........................................................................... 3
- Breadth Fine & Performing Arts (BFPA) ............................. 3
- Lab (EL)/Health Experience (EH) ...................................... 3
- Foreign Language 102/Elective ........................................ 4
  Total ............................................................................. 13

**Year 3**

- SOCW 301 – Introduction to Social Welfare Policy ............. 3
- SOCW 303 – Human Behavior in Social Environments II .... 3
- SOCW 315 – Social Work Practice I ................................. 3
- SOCW 316 – Social Work Practice II ................................. 3
- SOCW 390 – Diversity & Issues of Social and Economic Justice .................................................. 3
  Total ............................................................................. 15

**Year 4**

- SOCW 401 – Social Welfare Policy Analysis ...................... 3
- SOCW 481 – Statistics for Social Work ............................. 3
- SOCW 483 – Field Instruction II ....................................... 4
- SOCW Elective ................................................................ 3
  SOCW Elective ................................................................ 3
  Total ............................................................................. 16

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Southern Illinois University Edwardsville
Graduation Requirements
All undergraduate majors in social work are required to complete a senior assignment as part of the BSW Program and the University’s assessment process. The Social Work senior assignment is composed of two parts: a written case study and a final evaluation of students’ achievement of learning objectives completed by their field instructors.

Sociology and Criminal Justice Studies

Professors
Cobb, Denise, (Provost & Vice Chancellor for Academic Affairs) Ph.D., 2003, Tulane University
Dirks-Linhorst, P. Ann, Ph.D., 2003, University of Missouri-St. Louis
Markowitz, Linda, Ph.D., 1995, University of Arizona
Oberweis, Trish, Ph.D., 1999, Arizona State University
Petrocelli, Matt, Ph.D., 1997, Arizona State University

Associate Professors
Cannon, Kevin, Ph.D., 2001, University of Nebraska at Omaha
Frey-Spurlock, Connie, Ph.D., 2007, University of Nebraska, Lincoln
Hedley, Mark, Ph.D., 1994, University of Arizona
Hell, Erin, Ph.D. 2008, University of Illinois at Chicago
Maatita, Florence, Ph.D., 2003, University of Connecticut
Mares, Dennis, Ph.D., 2004, University of Missouri-St. Louis

Assistant Professors
Cox, Kiana, Ph.D., 2014, University of Illinois at Chicago
Martino-Taylor, Lisa, Ph.D. 2011, University of Missouri-Columbia
Temko, Ezra, Ph.D, University of New Hampshire
Weissinger, Sandra, Ph.D., 2010, University of Illinois at Urbana-Champaign

Instructor
Stygar, Elizabeth, MA, 2008, Southern Illinois University Edwardsville

Degree Programs
Bachelor of Arts, Criminal Justice Studies
Bachelor of Science, Criminal Justice Studies
Bachelor of Arts, Sociology
Bachelor of Science, Sociology
Specialization available in Diversity and Social Justice Studies
Specialization available in Employee Relations

Criminal Justice Studies
Peck Hall, Room 1230
siue.edu/sociology/Undergraduate/criminal_justice_undergrad.shtml

The B.A./B.S. degree in criminal justice studies at SIUE is a multidisciplinary degree program with a strong academic foundation in the liberal arts. Among the general topics studied are theories of crime and delinquency; the origins and development of criminal law and procedure; the functions and operations of criminal justice agencies in America, including the criminal justice response to juvenile offenders; the prevention of crime and delinquency; privatization in corrections and policing; the nature, meaning, and purpose of criminal punishment; the nature and impact of criminal justice policy; and the relationship between criminal justice and human diversity.

The criminal justice major prepares students for a broad range of career opportunities, including, but not limited to, work in law enforcement and security, probation and parole, the court system, and corrections. Experiential learning is an important component of the program, and all students are required to complete an internship with an organization or agency involved with some aspect of criminal justice. The internship could be with a public agency such as a police department, state or federal prison, local jail, circuit and municipal courts, or prosecutor’s office, or with a private organization delivering products or services to the criminal justice system.

During the internship, all students complete a reflective essay on the relationship between the internship experience and their coursework in criminal justice studies.

Statement of Major Goals
- Ability to effectively communicate orally and in writing
- Ability to understand, use, and apply theories of crime and justice
Ability to define a problem, generate appropriate data, and propose logical solutions

Ability to search and use criminal justice literature

Ability to understand diversity and its impact on criminal justice and society

**Career Opportunities**

In recent years, career opportunities in fields linked with criminal justice have shown steady growth. While some jobs do not require a university degree, many others do, and a degree almost always improves a person’s chances for promotions and other career advancement. Because the criminal justice program at SIUE rests on a strong academic foundation, a wide variety of occupations will be accessible to its graduates. These include court administration, probation and parole, research and planning, community-based prevention and treatment, and working with juveniles and other special populations of offenders.

Criminal justice majors also are hired by law firms as researchers, and by corporations that maintain internal security services or provide security services to clients. The many state and federal agencies involved in law enforcement and crime prevention also hire criminal justice majors as front-line officers as well as in the areas of administration, research, planning, and human resources. Newer areas of work such as victim-witness advocacy, dispute resolution, and neighborhood/community justice centers also provide employment opportunities for criminal justice majors.

**General Education Requirements**

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. Students electing to complete a Bachelor of Arts degree must complete a minimum of one year of foreign language as well as 6 courses in fine & performing arts or humanities.

**Degree Requirements**

CJ 111  CJ 202  CJ 206  CJ 208  
CJ 273  CJ 302  CJ 303  CJ 366  
CJ 488  CJ Electives (15 hrs)

The core of the criminal justice major consists of 27 hours of coursework required of all students, plus 15 hours of criminal justice electives. Students are encouraged to complete CJ 111, 202, and 208 with a C or better grade before enrolling in any 300- or 400-level CJ course. Students are also encouraged to complete CJ 302 and 303 before enrolling in 400-level CJ courses.

Completion of at least 18 hours of criminal justice courses work is required for enrollment in the supervised internship. Criminal justice majors may count up to 6 hours of 300- or 400-level courses in other programs with permission of the director of criminal justice studies.

**Program Overview**

**Admission**

Admission to the Criminal Justice program requires a minimum cumulative GPA of 2.50 from courses taken at SIUE.

**Retention**

Students majoring in criminal justice are required to maintain a cumulative average of C or better in their criminal justice coursework.

**Transfer**

Ordinarily, up to 12 semester hours of Criminal Justice transfer credit with C or better grades may be accepted. Up to 15 hours of transfer credit may be accepted from Illinois universities and community colleges, as recommended under the Illinois Articulation Agreement. Additional transfer hours may be used if approved by criminal justice advisors.

**Senior Assignment**

As part of the University’s assessment program, all undergraduate majors in criminal justice are required to complete a senior assignment. This will occur during completion of the Supervised Internship (CJ 488).
## Sample Curriculum for the Bachelor of Science in Criminal Justice Studies

### Fall Semester

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<tr>
<th>Year 1</th>
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Students wishing to obtain a Bachelor of Arts degree may do so by adding one year of foreign language as well as 4 additional courses in fine and performing arts or humanities.

### Criminal Justice Minor Requirements

For a minor in criminal justice, students are required to complete at least 21 semester hours of CJ electives. Minors must maintain an average of C or better in their criminal justice courses. Ordinarily, minors do not take CJ 302, 303, or 488. Up to 9 hours of transfer credit may be accepted toward the minor.

### Graduation

A cumulative grade point average of 2.0 or above in criminal justice coursework is required for graduation. Students must pass all required courses with a grade of C or better. A minimum of 15 semester hours of upper-level courses is required for graduation.
Sociology
Peck Hall, Room 1230
siue.edu/sociology

Program Description
Sociologists study human values, norms, leadership, power and conflict in groups as small as families and as large as entire societies. Sociologists apply various methods to address research questions, methods like questionnaire surveys, interviews, participant observation, and government statistics. The goal of such methods is to help solve problems of group living, problems ranging from social inequality and juvenile delinquency to world population growth and migration. Sociologists use logic, curiosity and problem solving skills to investigate causes of crime and deviance; racial, gender, and ethnic conflict; poverty; social inequality; health care; globalization and workplace change. Applied sociologists use sociological insights to identify and solve practical problems in group living. Many students majoring in other fields find sociology courses relevant to their studies.

Statement of Major Goals
- The undergraduate major in sociology seeks to foster the development of the following knowledge and skills while encouraging students to become well-informed, active citizens who appreciate creativity and diversity.
- ability to understand, use, and apply social theory
- ability to understand, use, and apply social research methods
- ability to effectively communicate orally and in writing
- ability to search and use relevant sociological literature
- ability to understand diversity and its impact on society, social theory, and social research
- ability to define a problem, generate appropriate sociological data, and propose logical solutions

Career Opportunities
Many employers emphasize that a good liberal arts education is an excellent foundation for specialized skills that employees can learn on the job. While professional training in sociology is primarily associated with advanced degrees, there are many employment opportunities for those with a liberal arts major in sociology. The specializations in Employment Relations and Diversity and Social Justice (see below) add occupationally relevant training to the liberal arts program in sociology. In addition to providing classroom and experiential training, the two concentration options help develop marketable research and communication skills. The required internship helps create job opportunities and provides training and research skills that make students more attractive to potential employers.

Details about career opportunities for sociology graduates are available in the departmental office, room 1230, Peck Hall. Interested students may also contact the chair or undergraduate program director by calling 618-650-3713.

Program Overview
Admission
The admission requirements for a bachelor of arts or bachelor of science degree in sociology includes admission to the University and successful completion of high school course-specific requirements.

Students must normally declare a major in sociology no later than halfway through their junior year (i.e. before the completion of 75 semester credits). Students who declare a major later than this explicitly understand and agree that they will not be able to graduate sooner than the end of the third semester of full-time coursework following declaration.

Retention
Students majoring in sociology are required to maintain a cumulative average of 2.0 (C) or above in their sociology courses.

Transfer
Ordinarily, up to 15 semester hours of transfer credit in sociology may be accepted. No more than nine semester hours from community colleges will be accepted for credit toward the major. Transfer credit will be accepted only if the course grade is C or above. Social Work courses do not count toward the 36 semester hours required for the major.

Minor Requirement
Students seeking a bachelor of arts or bachelor of science degree in sociology must, in consultation with their advisor, select and complete a minor in another department. This minor must be completed in order to achieve the sociology degree.
Senior Assignment
As part of the University’s assessment program, all undergraduate majors in sociology are required to complete a senior assignment, either Sociology 433 or Sociology 495. General majors (those not enrolled in the specialization in Employment Relations or Diversity and Social Justice) must take Sociology 495 (Senior Seminar) after completing 21 semester hours of sociology. Sociology 495 usually is offered both in spring and fall semesters, but not in the summer term.

Before enrolling in Sociology 495, all students must complete a sequence consisting of Sociology 301 (Theory), Sociology 302 (Methods), Sociology 303 (Statistics) and Sociology 493 (Sociological Research Workshop). Students should begin this sequence as soon as possible after declaring the major.

Students enrolled in Employment Relations or Diversity and Social Justice specializations are required to take Sociology 433 (Internship) as their senior assignment. Both Employment Relations or Diversity and Social Justice students are not required to enroll in Sociology 493 or 495, but they are required to complete the written and oral components of the senior assignment in their final spring term. A grade of C or better on the senior assignment is required for graduation. More information about the senior assignment in Sociology may be obtained from the departmental office, Peck Hall, room 1230.

General Education Requirements
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. Students electing to complete a Bachelor of Arts degree must complete a minimum of one year of foreign language as well as 6 courses in fine and performing arts or humanities.

Degree Requirements
SOC 111  SOC 301  SOC 302
SOC 303  SOC 493  SOC 495
Sociology Electives (18 hours)
Students must also declare and complete a minor in another department.

Specialization in Employment Relations
The specialization option in Employment Relations is designed to prepare students to apply sociological knowledge to the practical problems of the workplace. Fundamental changes in work and industry have intensified employer demands for broadly skilled professionals, supervisors, administrators, coordinators and consultants capable of critically evaluating, planning and implementing workplace changes.

Specialization in Diversity and Social Justice
The specialization option in Diversity and Social Justice prepares students for work in social movement/non-profit organizations that focus in the area of gender/sex, sexuality, race, environment, class, disability, and other areas where injustices occur. The goal is to apply sociological knowledge to understanding theories for why social inequalities occur and constructing logical and practical solutions for such inequalities.

Both specializations place great emphasis on the acquisition of practical knowledge through case study analyses and an internship (SOC 433) in an actual employment setting. As interns, students have the opportunity to apply course concepts, ideas, and methods in a supervised context. As the capstone learning experience in developing concrete skills and abilities, the internship may provide students with valuable contacts and networks that will be of use to them in achieving their professional and career goals. For more information, please contact the Internship advisor.

Students with an interest in Employment Relations will complete the following:
SOC 111  SOC 301  SOC 302  SOC 303
SOC 338  SOC 431  SOC 433
Sociology Electives (15 hours)

Students must also declare and complete a minor in another department.

Students with an interest in Diversity and Social Justice will complete the following:
SOC 111  SOC 301  SOC 302  SOC 303
SOC 325  SOC 411  SOC 433
Sociology Electives (15 hours)

Students must also declare and complete a minor in another department.

Sociology Minor Requirements
For a minor in sociology, students are required to complete 21 semester hours of sociology electives, which may include courses in other departments that are cross-listed with sociology. Sociology minors must maintain an average of 2.0 or above in their sociology courses. Ordinarily, nine semester hours of transfer credit may be counted toward the sociology minor. Transfer credit will count toward the sociology minor only when the grade is C or above.
Sample Curriculum for the Bachelor of Science in Sociology

**Fall Semester**

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**Spring Semester**

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</table>

Students wishing to obtain a Bachelor of Arts degree may do so by adding one year of foreign language as well as 4 additional courses in fine and performing arts or humanities.

Sample Curriculum for the Bachelor of Science in Sociology – Specialization in Employment Relations

**Fall Semester**

<table>
<thead>
<tr>
<th>Year 1</th>
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<tr>
<td>SOC 111 – Introduction to Sociology (BSS)</td>
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<tr>
<td>ENG 101 – English Composition I</td>
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<tr>
<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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<tr>
<td>SOC 304 – Race Relations (BSS, EUSC) or SOC 308 – Women,Gender, &amp; Society (BSS, EUSC) (Recommended)</td>
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### Sample Curriculum for the Bachelor of Science in Sociology – Specialization in Employment Relations cont.

<table>
<thead>
<tr>
<th>Year 3</th>
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<tr>
<td>SOC 301 – Survey of Theory (BSS)</td>
<td>SOC 302 – Social Research Methods (BSS)</td>
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<td>Interdisciplinary Studies (IS)</td>
<td>SOC 303 – Statistics w/Computer Apps</td>
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Students pursuing a Bachelor of Arts degree may do so by adding one year of the same foreign language as well as 4 additional courses in fine and performing arts or humanities.

### Sample Curriculum for the Bachelor of Science in Sociology – Specialization in Diversity and Social Justice

#### Fall Semester

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<th>Year 1</th>
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<tbody>
<tr>
<td>SOC 111 – Introduction to Sociology (BSS)</td>
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#### Year 2

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#### Year 3

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#### Year 4

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<th>SOC 325 – Community Action (BSS)</th>
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</table>

Students pursuing a Bachelor of Arts degree may do so by adding one year of the same foreign language as well as 4 additional courses in fine and performing arts or humanities.
Graduation
A cumulative grade point average of 2.0 or above in sociology courses is required for graduation, and students must achieve at least a C grade in all required sociology courses.

Career Opportunities
An undergraduate degree in theater or dance provides a student with pre-professional theater and dance training in acting, directing, dance, choreography, technical production, and design enabling them to pursue one of many careers directly and indirectly associated with the arts. Theater History/Literature/Criticism students may find careers as a dramaturg, playwright, or critic. With a specialization in Theater Education, students can prepare for a career in teaching in middle and secondary schools.

Degree Programs
Bachelor of Arts, Theater & Dance
Specializations available in the following
- Dance
- Design/Technical
- History/Literature/Criticism
- Performance

Bachelor of Science, Theater & Dance
Specializations available in the following
- Dance
- Design/Technical
- History/Literature/Criticism
- Performance

Professional Educator Licensure (9-12) option

Program Overview and General Department Information

Admission
Students seeking admission to the Theater and Dance Department must first be admitted to the University by contacting the Admissions Office. Students who are considering theater and dance as a major should call or visit the department – Dunham Hall, room 1031, telephone (618) 650-2773 – as early as possible. They will be referred to a faculty advisor who will provide them more information about the curricula and the department as well as help them plan an academic program. Early advisement will enable students to complete their programs with minimal conflicts and within the shortest possible time.

In order to be admitted into the teacher licensure program, students must have:
- Received a grade of C or above in ENG 101 and ENG 102;
- Completed 43 semester hours of course credit and have a cumulative grade point average of 2.5 or higher (this includes work at other institutions);
- Successfully completed the introductory course CI 200;
- Passed the ILTS Test of Academic Proficiency (formerly the Basic Skills Test) or the ACT equivalent with the approved substitution application. Information about the ILTS test is available at il.nesinc.com.

Retention
Students in the theater and dance major or minor must maintain at least a 2.0 cumulative GPA and must complete all required theater and dance courses with a grade of C or above to remain in the program. Students may attempt any required theater and dance course only twice (complete a course and receive a grade). If a student fails to achieve a C grade or better in a required course after a second attempt, he/she will be dropped from the program. Students dropped from the major or minor may direct a written appeal for reinstatement to the departmental advisory committee for readmission. Students must complete a department senior assessment class (THEA 499a, b, c, d or DANC 499). Details of this requirement may be obtained from the student’s respective Area Head. In addition to departmental requirements, students must complete all University requirements for graduation.

Transfer
Transfer students should follow the same admissions procedure as outlined above. In addition, they should contact the chair of the department prior to their admission so they may be assigned a mentor within their respective area of study. A minimum grade of C is required for all transfer classes applied to the major or minor requirements.

Requirements for students seeking Professional Educator Licensure
Admission to a professional education courses is a joint decision made by the academic discipline in the College of Arts and Sciences and the School of Education Health and Human Behavior. Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the School of Education Health and Human Behavior Student Services for information about admission requirements to courses leading to the professional educator licensure, as soon as they know they would like to pursue this option. Scheduling these required courses involves early and frequent coordination between the student, College of Arts and Sciences Advisor, Department Faculty Mentor, and School of Education Health and Human Behavior Advisor. An overall grade point average of 2.5 is required for admission to the teacher licensure program. CIED 100 is an introductory course that is open to all students interested in pursuing Professional Educator Licensure.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found in the School of Education Health and Human Behavior section of this catalog, the SEHHBSS website http://www.siue.edu/education/, and by making an appointment with a School of Education Health and Human Behavior advisor.

General Education Requirements for the Major
University general education requirements are outlined in the General Education section of this catalog and added in the curriculum guides listed below.

Degree Requirements
Theater Major Core Classes – 24 credits – All theater and dance majors should complete the core classes before taking any 300-400 level classes in their specializations. Dance majors have additional core options (see curriculum guide in dance).

THEA 112a  THEA 114a  THEA 114b  THEA 201a
THEA 201b  THEA 220  THEA 150, 160, or 170
DANC 114

Dance Specialization Requirements – 46 credits
Completion of the Theater Core classes plus:
ART 225a or 225b
DANC 210a or 211a
DANC 230, 240, KIN 315, or BIOL 240a
DANC 220, 310a, 310b, 311a, 311b, 420a, 420b, 433, 499
DANC 410a, 410b, 411a, 411b (Choose one)
MUS 357a or 357b
Four (4) semesters of THEA 199 practicum

Design/Technical Specialization Requirements – 51 credits
Completion of the Theater Core classes plus:
THEA 150, 160, 170, 340a, 340b, 350, 360, 370, 499b
Remainder of credits may be taken from the following:
THEA 255, 265, 275, 290, 295, 399b, 450, 460, 470, 475
Electives
Additional courses may be chosen from the options above, with a limit of 15 credit hours of electives in the major. The following Art and Design courses are strongly recommended as electives for Design/Technical Theater Major:
ART 112a, 112b, 112c, 112d, 225a, 225b
Four (4) semesters of THEA 199 practicum

Performance Specialization Requirements – 51 credits
Completion of the Theater Core classes plus:
THEA 112B, 215A, 310A, 310B, 312, 410, 499A
(Take 6 credits)
Four (4) semesters of THEA 199 Practicum

History/Literature/Criticism Specialization – 54 credits
Completion of the Core plus:
Choose one (ENG 307, ENG 471)
THEA 499C
Four semesters of THEA 199 practicum

Sample Curriculum for the Bachelor of Arts in Theater and Dance: Dance

Fall Semester

Year 1
DANC 114 – Movement Fundamentals ............................. 3
THEA 112a – Acting I – Intro to Acting ..................... 3
ACS 101 or 103 - Oral Expression ......................... 3
ENG 101 – Composition ........................................ 3
Foreign Language 101 (BICS) ................................. 4
Total ..................................................... 16

Year 2
DANC 210a – Beginning Modern Dance Techniques
 or DANC 211a - Beginning Ballet ............................ 2
DANC 240 – History of Dance ................................. 3
THEA 199 – Theater Production .......................... 0
RA 101 - Reasoning & Argumentation .................... 3
KIN 315 or BIOL 240a (recommended) ................. 3
Breadth Life Science (BLS) ................................ 3
Breadth Social Science (BSS) ............................... 3
Total ..................................................... 17

Year 3
DANC 220 – Rhythmic Structure ............................... 2
DANC 230 – Intro to Laban Movement .................... 2
DANC 310a – Intermediate Modern Dance ............ 3
DANC 310a – Intermediate Modern Dance ............ 3
DANC 311a – Intermediate Ballet Techniques ........ 2
Experience United States Culture (EUSC) .............. 3
Health Experience (EH) .................................... 3
Total ..................................................... 15

Spring Semester

Year 1
THEA 114a – Forms of Dramatic Action ................... 3
THEA 150, 160, or 170 (select one) ....................... 3-4
Breadth Humanities (BHUM) ............................. 3
ENG 102 – Composition ..................................... 3
Foreign Language 102 (EGC) ................................. 4
Total ..................................................... 16-17

Year 2
THEA 199 – Theater Production ........................... 0
THEA 114b - Forms of Dramatic Action ................. 3
THEA 220 – Directing for the Stage ....................... 3
ART 225A 225B or ART 225B ............................. 3
Elective ...................................................... 2
QR 101, MATH 150 or Higher ............................ 3
Total ..................................................... 14

Year 3
DANC 310b – Intermediate Modern Dance ............ 2
DANC 311b – Intermediate Ballet Techniques ........... 2
THEA199 – Theater Production .......................... 0
Interdisciplinary Studies (IS) ............................. 3
Breadth Fine & Performing Arts (BFPA) .. ............. 3
Breadth Physical Science (BPS) ........................... 3
Lab Experience (EL) .................................... 3
Total ..................................................... 16

Electives – Select twelve (12) credits in any THEA or DANC class with advisor consent

Theater Education Specialization
Completion of the Core plus:
Completion of Teacher Licensure (6-12) Requirements
CIED 100, CI 315A, CI 315B, CI 323, CI 352
EPFR 315, 320
SPE 400
Theater Education Requirements
THEA 160, 170, 265, 298, 398, (392 or 312)
Four (4) semesters of THEA 199 practicum

Senior Assignment
All theater and dance majors must complete the Senior Assignment Capstone Project.
Specific requirements for each specialization can be found in the Department of Theater and Dance’s Student Handbook. Please contact the Theater and Dance Office to obtain a copy.
Sample Curriculum for the Bachelor of Arts in Theater and Dance: Dance cont.

Year 4
DANC 410a 410b, 411a, or 411b (select one) .................................. 2
DANC 420a – Dance Composition I ........................................... 2
DANC 433 – Dance Pedagogy & Methodology ................................ 2
THEA 199 – Theater Production Elective ................................... 0
THEA 201A - Core: History of the Theater .............................. 3
THEA 201B - Core: History of the Theater .............................. 3
Total ........................................................................... 12

Year 4
DANC 420b – Dance Composition II ......................................... 2
DANC 499 – Senior Assignment .................................................. 3
Elective ............................................................................. 3
Elective ............................................................................. 3
Elective ............................................................................. 3
Total ............................................................................. 14

Sample Curriculum for the Bachelor of Arts in Theater and Dance: Design/Technical Theater

Fall Semester
Year 1
THEA 114a – Forms of Dramatic Action .................................. 3
THEA 150 (Introductory Tech Courses) ................................. 4
DANC 114 – Movement Fundamentals ................................ 3
ACS 101 or 103 - Oral Expression ........................................ 3
ENG 101 – English Composition I ......................................... 3
Total .............................................................................. 16

Year 2
THEA 340a - Theater Graphics .................................................. 3
THEA 160 - Costume Design & Construction ......................... 4
THEA 201a – History of the Theater ....................................... 3
RA 101 - Reasoning & Argumentation .................................. 3
Foreign Language 101 (BICS) .................................................... 4
Total .............................................................................. 17

Year 3
THEA 265 – Stage Makeup (or THEA 255) ............................ 2
THEA 340b - Computers in Theater ........................................ 3
ART 225a – History of World Art (BFPA, EGC) ...................... 3
Breadth Social Science (BSS)/Experience United States
  Cultures (EUSC) ................................................................ 3
Breadth Humanities (BHUM) ................................................. 3
Approved Elective ................................................................. 3
Total .............................................................................. 17

Year 4
THEA 350 – Scenic Design ....................................................... 3
THEA 375 - Sound for the Theater ............................................ 3
ART 225b – History of World Art (BFPA, EGC) ...................... 3
Interdisciplinary Studies (IS) .................................................. 3
Health Experience (EH) .......................................................... 3
Approved Elective ................................................................. 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 18

Year 4
THEA 370 - Lighting Design .................................................... 3
THEA 450, 460, 470, 475 – Design Projects
  (or Approved Elective) ......................................................... 3
THEA 255 - Scene Painting (or THEA 265) ........................... 2
Elective ............................................................................. 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 14

Spring Semester
Year 1
THEA 112a – Introduction to Acting ......................................... 3
THEA 114b – Forms of Dramatic Action .................................. 3
THEA 170 - Introduction to Lighting & Stage Management ...... 3
ENG 102 – English Composition II ......................................... 3
Breadth Physical Science (BPS) .............................................. 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 15

Year 2
THEA 201b – History of the Theater ......................................... 3
THEA 220 – Directing for the Stage ......................................... 3
Foreign Language 102 (EGC) .................................................. 4
Breadth Life Science (BLS)/Lab Experience (EL) ................... 3
ART 111 – Introduction to Art (BFPA) ..................................... 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 16

Year 3
THEA 114b – Forms of Dramatic Action .................................. 2
THEA 170 - Introduction to Lighting & Stage Management ...... 3
Eng 102 – English Composition II ......................................... 3
Breadth Physical Science (BPS) .............................................. 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 18

Year 4
THEA 370 - Lighting Design .................................................... 3
THEA 450, 460, 470, 475 – Design Projects
  (or Approved Elective) ......................................................... 3
THEA 255 - Scene Painting (or THEA 265) ........................... 2
Elective ............................................................................. 3
THEA 199 - Theater Production ............................................ 0
Total .............................................................................. 14

While an art minor is not required, it is highly recommended that students wishing to specialize in Design/Technical Theater pursue a strong foundation in art courses, including two-dimension and three-dimension communication.
# Sample Curriculum for the Bachelor of Arts in Theater and Dance: Performance

## Fall Semester

**Year 1**
- THEA 112a – Introduction to Acting ........................................... 3
- THEA 114a – Forms of Dramatic Action ....................................... 3
- DANC 114 – Movement Fundamentals ......................................... 3
- ENG 101 – English Composition I .............................................. 3
- ACS 101 or 103 - Oral Expression .............................................. 3
- Total ......................................................................................... 15

**Year 2**
- THEA 199 – Theater Production .................................................. 0
- THEA 201a – History of the Theater ............................................. 3
- THEA 210a – Acting III ............................................................... 3
- RA 101 - Reasoning & Argumentation .......................................... 3
- Breadth Fine & Performing Arts (BFPA) ........................................ 3
- Foreign Language 101 (BICS) ...................................................... 4
- Total ......................................................................................... 16

**Year 3**
- THEA 215a - Movement and Voice for the Stage ......................... 3
- DANC 310a – Intermediate Modern Dance .................................... 3
- THEA 312 – Multi-Cultural Theater in America (EUSC) ............... 3
- Breadth Life Science (BLS)/Lab Experience (EL) ......................... 3
- Breadth Social Science (BSS) ..................................................... 3
- Total ......................................................................................... 15

**Year 4**
- THEA 199 – Theater Production .................................................. 0
- THEA 410 – Acting for the Camera .............................................. 3
- THEA 420 - Projects in Directing ................................................. 3
- THEA Elective, as needed .......................................................... 3
- Breadth Humanities (BHUM) ..................................................... 3
- Approved Elective ...................................................................... 4
- Total ......................................................................................... 16

## Spring Semester

**Year 1**
- THEA 112b – Creating a Role ...................................................... 3
- THEA 114b – Forms of Dramatic Action ....................................... 3
- THEA 150, 160, or 170 Technical Theater ..................................... 3-4
- ENG 102 – English Composition II .............................................. 3
- QR 101, MATH 150 or Higher .................................................... 3
- Total ......................................................................................... 15-16

**Year 2**
- THEA 199 – Theater Production .................................................. 0
- THEA 201b – History of the Theater ............................................. 3
- THEA 220 – Directing for the Stage .............................................. 3
- THEA 210b - Improvisation ......................................................... 3
- Breadth Physical Science (BPS) ................................................... 3
- Foreign Language 102 (EGC) ...................................................... 4
- Total ......................................................................................... 16

**Year 3**
- THEA 199 – Theater Production .................................................. 0
- THEA 265 - Theater Makeup ........................................................ 2
- DANC 310b – Intermediate Modern Dance .................................. 2
- THEA 230 – Rehearsal and Performance .................................... 3
- THEA 235 - Intro to T’ai Chi Ch’uan ............................................ 2
- Interdisciplinary Studies (IS) ....................................................... 3
- Health Experience (EH) ............................................................. 3
- Total ......................................................................................... 15

**Year 4**
- THEA 430 - Rehearsal and Performance ...................................... 3
- THEA 499a – Senior Assessment Performance .......................... 3
- THEA 315a – Dialects for the Stage ............................................. 3
- THEA 315b - Advanced Movement ............................................ 3
- Total ......................................................................................... 12

# Sample Curriculum for the Bachelor of Arts in Theater and Dance: History/Literature/Criticism

## Fall Semester

**Year 1**
- THEA 112a – Intro to Acting ...................................................... 3
- THEA 114a – Forms of Dramatic Action ....................................... 3
- ENG 101 – English Composition I .............................................. 3
- RA 101 - Reasoning & Argumentation ........................................ 3
- Breadth Fine & Performing Arts (BFPA) ....................................... 3
- Total ......................................................................................... 15

## Spring Semester

**Year 1**
- THEA 112b – Forms of Dramatic Action ....................................... 3
- DANC 114 – Movement Fundamentals ......................................... 3
- ENG 102 – English Composition II .............................................. 3
- ACS 101 or 103 - Oral Expression .............................................. 3
- Breadth Physical Science (BPS) ................................................... 3
- Total ......................................................................................... 15
### Sample Curriculum for the Bachelor of Arts in Theater and Dance: History/Literature/Criticism cont.

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THEA 199 – Theater Production</strong> ........................................... 0</td>
<td><strong>THEA 199 – Theater Production</strong> ........................................... 0</td>
<td><strong>THEA 199 – Theater Production</strong> ........................................... 0</td>
</tr>
<tr>
<td><strong>THEA 150, 160, or 170 Technical Theater</strong> .................................. 3-4</td>
<td><strong>Approved THEA/DANC Elective</strong> .................................................. 3</td>
<td><strong>Approved THEA/DANC Elective</strong> .................................................. 3</td>
</tr>
<tr>
<td><strong>THEA 201a – History of the Theater</strong> ......................................... 3</td>
<td><strong>Interdisciplinary Studies (IS)</strong> ............................................... 3</td>
<td><strong>Interdisciplinary Studies (IS)</strong> ............................................... 3</td>
</tr>
<tr>
<td><strong>Foreign Language 101 (BICS)</strong> .................................................. 4</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
<td><strong>Approved THEA/DANC Elective</strong> .................................................. 3</td>
</tr>
<tr>
<td><strong>Breadth Life Science (BLS)/Lab Experience (EL)</strong> ............................ 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
</tr>
<tr>
<td><strong>QR 101, MATH 150 or Higher</strong> .................................................... 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
</tr>
<tr>
<td><strong>Total</strong> ........................................................................................... 16-17</td>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
</tr>
<tr>
<td><strong>Total</strong> ........................................................................................... 16</td>
<td><strong>Foreign Language 102 (EGC)</strong> ..................................................... 4</td>
<td><strong>Foreign Language 102 (EGC)</strong> ..................................................... 4</td>
</tr>
<tr>
<td><strong>THEA 201b – History of the Theater</strong> ......................................... 3</td>
<td><strong>Breadth Social Science (BSS)</strong> .................................................... 3</td>
<td><strong>Breadth Social Science (BSS)</strong> .................................................... 3</td>
</tr>
<tr>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
<td><strong>Health Experience (EH)</strong> ............................................................ 3</td>
<td><strong>Health Experience (EH)</strong> ............................................................ 3</td>
</tr>
<tr>
<td><strong>Foreign Language 102 (EGC)</strong> ..................................................... 4</td>
<td><strong>Total</strong> .......................................................................................... 15</td>
<td><strong>Total</strong> .......................................................................................... 15</td>
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<tr>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
</tr>
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<td><strong>Elective</strong> ................................................................................. 3</td>
<td><strong>Elective</strong> ................................................................................. 3</td>
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<td><strong>Elective</strong> ................................................................................. 4</td>
<td><strong>Total</strong> .......................................................................................... 13</td>
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<tr>
<td><strong>Total</strong> ........................................................................................... 15</td>
<td><strong>Total</strong> .......................................................................................... 15</td>
<td><strong>Total</strong> .......................................................................................... 15</td>
</tr>
</tbody>
</table>

### Sample Curriculum for the Bachelor of Science in Theater and Dance, Professional Educator Licensure (9-12)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td><strong>THEA 114a – Forms of Dramatic Action</strong> ........................................... 3</td>
<td><strong>THEA 112a – Introduction to Acting</strong> ......................................... 3</td>
</tr>
<tr>
<td><strong>THEA 150 – Scene Design &amp; Construction</strong> ..................................... 4</td>
<td><strong>THEA 114b – Forms of Dramatic Action</strong> ..................................... 3</td>
</tr>
<tr>
<td><strong>THEA 265 – Theater Makeup</strong> ....................................................... 2</td>
<td><strong>THEA 170 – Introduction to Lighting &amp; Stage Management</strong> ............ 3</td>
</tr>
<tr>
<td><strong>ENG 101 – English Composition I</strong> ............................................... 3</td>
<td><strong>ENG 102 – English Composition II</strong> ............................................ 3</td>
</tr>
<tr>
<td><strong>ACS 101 or 103 - Oral Expression</strong> ............................................... 3</td>
<td><strong>RA 101 - Reasoning &amp; Argumentation</strong> ......................................... 3</td>
</tr>
<tr>
<td><strong>Total</strong> ........................................................................................... 15</td>
<td><strong>Total</strong> .......................................................................................... 15</td>
</tr>
<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td><strong>THEA 201a – History of the Theater</strong> ......................................... 3</td>
<td><strong>THEA 160 – Costume Design</strong> ..................................................... 4</td>
</tr>
<tr>
<td><strong>DANC 114 – Movement Fundamentals</strong> .......................................... 3</td>
<td><strong>THEA 201b – History of the Theater</strong> ......................................... 3</td>
</tr>
<tr>
<td><strong>CED 100 – Introduction to Education</strong> ......................................... 3</td>
<td><strong>PSYC 111 – Foundations of Psych (BSS, recommended)</strong> ................ 3</td>
</tr>
<tr>
<td><strong>Breadth Fine &amp; Performing Arts (BFPA)</strong> ....................................... 3</td>
<td><strong>Breadth Information &amp; Communication in Society (BICS)</strong> .............. 3</td>
</tr>
<tr>
<td><strong>QR 101, MATH 150 or Higher</strong> .................................................... 3</td>
<td><strong>Breadth Humanities (BHU) / Experience Global Cultures (EGC)</strong> ...... 3</td>
</tr>
<tr>
<td><strong>Total</strong> ........................................................................................... 15</td>
<td><strong>Total</strong> .......................................................................................... 16</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
</tr>
<tr>
<td><strong>THEA 298 – Intro to Theater Ed in Secondary School</strong> .................... 3</td>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
</tr>
<tr>
<td><strong>EPFR 320 – Found of Ed in a Multicultural Society</strong> ....................... 3</td>
<td><strong>THEA 398 – Theater Education in the Secondary School</strong> .............. 3</td>
</tr>
<tr>
<td><strong>Breadth Life Science (BLS) with a lab (EL)</strong> .................................. 3</td>
<td><strong>IS 386 – Cyberarts (recommended)</strong> ........................................... 3</td>
</tr>
<tr>
<td><strong>Life, Physical or Social Science/Health Experience (EH)</strong> .............. 3</td>
<td><strong>SPE 400 – The Exceptional Child</strong> ............................................. 3</td>
</tr>
<tr>
<td><strong>Life, Physical or Social Science</strong> .................................................. 3</td>
<td><strong>Breadth Physical Science (BPS)</strong> ............................................... 3</td>
</tr>
<tr>
<td><strong>THEA 199 - Theater Production</strong> .................................................. 0</td>
<td><strong>THEA 199 - Theater Production</strong> .................................................. 0</td>
</tr>
<tr>
<td><strong>Total</strong> ........................................................................................... 15</td>
<td><strong>Year 4</strong></td>
</tr>
<tr>
<td><strong>THEA 220 – Directing for the Stage</strong> ......................................... 3</td>
<td><strong>THEA 199 - Theater Production</strong> .................................................. 0</td>
</tr>
</tbody>
</table>
Sample Curriculum for the Bachelor of Science in Theater and Dance, Professional Educator Licensure (9-12) cont.

Year 4
THEA 312 – Multicultural Theater (EUSC) .................. 3
CI 315a – Methods of Teaching in the Secondary School .... 2
CIED 323 – Adolescent Content Literacy .................. 3
EPFR 315 – Educational Psychology ......................... 3
Life, Physical or Social Science ............................... 3
Life, Physical or Social Science with a lab (EL) ............. 4
THEA 199 - Theater Production ............................. 0
Total .................................................. 18

Year 4
THEA 499e – Capstone Project ............................... 3
CI 315b – Methods for Teaching in the Secondary School .. 2
CI 352 – Student Teaching – Secondary .................... 10
THEA 199 - Theater Production ............................. 0
Total .................................................. 15

An additional major or minor concentration in another discipline is strongly recommended for students majoring in theater education. Teacher licensure (9-12) majors are encouraged to have a second teaching field. The Department of Theater and Dance urges each student to complete enough courses in language arts to prepare for a teaching career.

Theater and Dance Minor

The theater and dance minor consists of 21 hours. All Theater and Dance minors must take:
THEA 112a
THEA 150, or 160, or 170
THEA 201a, or THEA 201b, or DANC 240, or THEA 392
DANC 114
THEA 199 (taken twice)

Nine (9) hours of approved electives in theater and/or dance with advisor approval.

Students who minor in theater and dance must complete all required courses with a grade of C or above and must maintain at least a 2.0 cumulative GPA. Students should declare their minor as soon as possible so a mentor may be assigned to them.

Graduation Requirements

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
- File an Application for Graduation by the first day of the term in which you plan to graduate.
School of Business
Founders Hall, Room 3307
siue.edu/business

Distinguished Research Professor

Professors
Bharati, Rakesh C. (Chair), Finance, Ph.D., 1991, Indiana University - Bloomington
Bordoloi, Bijoy, Computer Management & Information Systems, Ph.D., 1988, Indiana University
Demirer, Riza, Finance, Ph.D., 2003, University of Kansas - Lawrence
Joplin, Janice R. W. (Associate Dean), Ph.D., 1994, University of Texas – Arlington
Lovata Rutz, Linda M., Accounting, Ph.D., 1983, Indiana University
Powell, Anne L. (Chair), Computer Management & Information Systems, Ph.D., 2000, Indiana University
Reed, Brad J., Accounting, Ph.D., 1995, University of Arizona

Associate Professors
Belasen, Ari, Economics, Ph.D., 2007, State University of New York at Binghamton
Berkley, Robyn A., Management, Ph.D., 2001, University of Wisconsin – Madison
Evrensel, Ayse Y., Economics, Ph.D., 1999, Clemson University
Fu, Xudong, Finance, Ph.D., 2008, University of Alabama
Hershberger, Edmund K. (Chair), Marketing, Ph.D., 2003, Georgia State University
Jategaonkar, Shrikant P., Finance, Ph.D., 2009, University of Arizona
Jia, Jingyi, Finance, Ph.D., 2006, Temple University
Love, Mary Sue, Management, Ph.D., 2001, University of Missouri – Columbia
Madupalli, Ramana K., Marketing, Ph.D., 2007, Georgia State University
Pannirselvam, Gertrude P., Management, Ph.D., 1995, Arizona State University
Schoenecker, Timothy S. (Interim Dean), Management, Ph.D., 1994, Purdue University
Sierra, Gregory E., Accounting, Ph.D., 2004, Washington University
Swanson, Laura S., Management, Ph.D., 1995, Purdue University
Watson, Jr., George W., Management, Ph.D., 1997, Virginia Tech

Williams, Clay K., Computer Management & Information Systems, Ph.D., 2007, University of Georgia
Zeng, Yuping, Management, Ph.D., 2007, Peking University

Assistant Professors
Barber, Connie, Computer Management & Information Systems, Ph.D., 2014, The University of North Carolina at Greensboro
Gross, Andrew D., Accounting, Ph.D., 2010, University of Arkansas
Hair, Michael L., Marketing, Ph.D., 2015, Georgia Institute of Technology
Hester, Andrea J., Computer Management & Information Systems, Ph.D., 2009, University of Colorado Denver
Hoelscher, Jamie L., Accounting, Ph.D., 2013, University of Nebraska-Lincoln
Jacks, Tim, Computer Management & Information Systems, Ph.D., 2012, The University of North Carolina at Greensboro
Kim, Sungho, Management, Ph.D., 2011, The Ohio State University
Tracey, Marlon, Economics, Ph.D., 2016, State University of New York at Binghamton

Instructors
Brant, Steven D., Accounting, M.S., 1979, Illinois State University
Richards, Warren D., Economics, M.S., 1995, Southern Illinois University Edwardsville
Robberson, Katherine, Management, M.B.A., 2003, University of Missouri-Columbia
Sullivan, Tim S., Economics, Ph.D., 1995, University of Maryland
Winter, Christine, Marketing, M.B.A., 1988, Southern Illinois University Edwardsville
Wolff, Laura A., Economics, M.A., 1988, University of Missouri-Columbia
Vision
The SIUE School of Business will be an internationally recognized premier business school that develops highly skilled and innovative professionals who, through achieving their full potential, enhance businesses, organizations, and communities.

Mission
The SIUE School of Business engages in high-quality learning experiences, research, and service to develop current and future business professionals, scholars, and leaders.

We Are Committed To
- Provide a leading-edge environment for educating undergraduate, graduate and continuing education students that fosters creativity, critical thinking, ethical behavior, and an appreciation of globalization and diversity.
- Develop and sustain partnerships with businesses, SIUE departments, and the regional community that lead to professional opportunities for students, alumni, faculty, and regional constituents.
- Offer programs responsive to the needs of our key stakeholders.
- Foster a vibrant regional economy through the exchange of ideas and knowledge.
- Maintain a highly competent administrative and support staff.
- Develop and retain a high-quality faculty whose members strive for excellence, are current in their fields and make scholarly contributions through discipline-based, applied and pedagogical research.

These efforts add value: for students, by facilitating and enhancing their career prospects; for organizations, by developing business professionals who meet their needs and stimulate innovation; for the university, by collaborating across the community; and for business disciplines, by producing and disseminating timely and relevant scholarship.

Approved by faculty vote 3/24/16

Undergraduate Learning Goals
A common set of learning goals characterizes business education at the SIUE School of Business. The goals are designed to (a) help students become effective leaders in their professions and communities and (b) reinforce the value of lifelong learning for leaders. The goals direct student learning toward mastery of content or knowledge, toward acquisition of important skills for business success, and toward the integration of knowledge and skills.

Content
Functional Knowledge
All undergraduate students in the School of Business should demonstrate breadth and depth of knowledge in the core business disciplines. Additionally, each student in a specialized degree program (Accountancy, Computer Management and Information Systems, or Business Economics and Finance) should demonstrate depth of knowledge in her/his chosen discipline. Each of these degree programs has specific curricular objectives in addition to those presented in this document.

External Perspective
Undergraduate students should be prepared to manage in a dynamic and diverse business environment through awareness of
- Global, political, technological, social, economic and regulatory business contexts
- Social responsibility of organizations
- Individual responsibility and ethical behavior
- Ethnic, cultural and gender diversity

Skills
Interpersonal Skills
Undergraduate students should demonstrate the ability to interact effectively in a professional environment through
- Written and oral communication
- The use of leadership and motivational skills
- An understanding of individual and group dynamics

Systematic Problem Solving
Undergraduate students should demonstrate the ability to apply analytical thinking to systematically solve business problems through
- Acquisition and evaluation of information
- Application of appropriate quantitative models, qualitative analyses, and information technologies
- Synthesis and analysis of key issues in an uncertain environment

Integration of Knowledge
Undergraduate students should demonstrate the ability to develop a holistic view of the business environment through the integration of their business and liberal education as well as
boundary-spanning thinking that incorporates the links among business disciplines.

Accreditation
The SIUE School of Business is among an elite 5 percent of the 11,000 business schools worldwide that have earned the prestigious seal of approval from the Association to Advance Collegiate Schools of Business (AACSB) International. The SIUE School of Business has been accredited by AACSB International since 1975, and this assures that students receive the highest quality business education. The SIUE School of Business Accountancy program also is separately accredited by AACSB International; a distinction that fewer than 200 accredited business schools achieve and maintain.

School of Business Academic Programs and Policies Applicable to all Programs
The School of Business offers four undergraduate programs. Admission to the School of Business programs is competitive through a separate application process in addition to regular admission to Southern Illinois University Edwardsville. Information about the application process is available within the academic program sections. Students who already hold a bachelor’s degree (“Seniors with Degree”) are not required to submit a separate application to the School of Business; rather, they should meet with an academic advisor in the School of Business Student Services office after they have been admitted to SIUE for program advisement and program planning.

Pre-Business Status
Before applying to the School of Business, students may enter pre-business status after completion of English 101 and Mathematics 120 and Economics 111 (or Economics 112) all with grades of C or higher and attaining a 2.25 collegiate grade point average. Once students are classified as pre-business students, they will be advised in the Office of Business Student Services unless a student changes to a different program. Students do not have to be in pre-business status to apply for admission to the School of Business.

Retention
In order for a student to remain in pre-business status, a 2.25 cumulative grade point average must be maintained. Pre-business students who fail to maintain at least a 2.25 cumulative grade point average at SIUE will be placed on pre-business probation. Students will be notified when they are not meeting the cumulative grade point average retention standard and will be informed of the timeframe allowed to improve their grade point average. Students who do not meet retention requirements for two consecutive terms will be removed from the School of Business. Retention requirements for each major program appear within the academic programs section. Students are strongly encouraged to progress toward degree completion each semester.

Minors (for non-business majors)
Non-business majors may declare the Business Administration minor pursuant to general university requirements. To declare a minor, students must be in good standing, declared into their chosen major and have at least a 2.25 cumulative grade point average. Once students are accepted as a minor, they must meet with a business advisor for an initial meeting to discuss the minor requirements. Please review the Business Administration minor requirements within the academic programs section.

Re-entry to School of Business Programs
Former students who have not attended SIUE for three or more terms must meet program requirements in effect at the time of re-entry, including any retention or program-specific course or grade point average requirements.

Graduation
To be eligible to graduate, students must complete all university general education (Lincoln Program) requirements, all School of Business requirements and all major program requirements. Students also must achieve and maintain a cumulative, business, and major GPA as required by the particular program. Consult the particular academic program section of this catalog for additional information. Students not completing all requirements will not be eligible to receive a degree from the School of Business. Further, students will be approved to participate in the commencement ceremonies only at the end of the term in which all graduation requirements are met. Each undergraduate business program requires the completion of a minimum of 120 semester hours of college-level credit.

Additionally, students are required to earn a grade of C or better in MGMT 441 and in the course taken to fulfill the research requirement for their specific program. Student learning will be assessed both at the junior and senior levels, and students are required to complete assessment activities in order to graduate.
Students must complete all 300- and 400-level business course requirements at SIUE or another AACSB-accredited business school. Once admitted to the School of Business, students seeking a major or minor in the School of Business must obtain prior approval from the School of Business before taking upper-level (300- or 400-level) business course work at another institution that is intended to satisfy a major or minor requirement.

**Business Transitions Program**
The required Business Transitions program (GBA 301 and GBA 402) provides students with opportunities to complement their formal education with co-curricular educational experiences wherein they gather additional knowledge, skills and integrative experiences. GBA 301 and GBA 402 are required individualized learning courses designed to assist students with the transition into the School of Business and for developing knowledge and skills related to career planning including resume development and initial job search strategies. Students will be introduced to the concepts of individual responsibility and ethical behavior, social responsibility of organizations and global perspectives on business. Students will use the School and University resources dedicated to assisting them with the transition to a professional business environment and development of professional skills related to job search, professional networking, and interviewing as well as social etiquette. Students also learn how to research educational opportunities beyond college. Business students will also choose from a variety of seminars, events, and activities each semester which develop their business knowledge, perspective and interpersonal skills as well as assist in recognizing and experiencing integration of business knowledge and skills.

**Attendance**
Because there is high demand for business courses, failure to attend the first class session may result in the student being dropped from the course.

**Repeat Policy**
Students may repeat undergraduate business courses (ACCT, CMIS, ECON, FIN, IS 401, GBA, MS, MGMT, MKTG and PROD) at SIUE under the following conditions and restrictions: When a course is repeated, only the grade earned in the final attempt will be used in computing the grade point average. All grades will appear on the transcript.

Credits earned for any course will be applied only once toward degree requirements, no matter how often the course is repeated.
- 100-level courses may not be repeated more than three times.
- 200-level courses may not be repeated more than two times.
- 300- and 400-level courses may not be repeated more than one time.

The School of Business is not obligated to offer a course to provide students an opportunity to repeat a previously attempted course. If a student does not pass a 300- or 400-level course after the second graded attempt, one of the following options must be chosen:

1. Appeal to take the course a third time. If the student does not pass the course on the third attempt, the student must choose a major outside the School of Business. OR
2. Take the required course at another AACSB accredited institution. (A 300- or 400-level course may only be taken at an approved four-year college or university.) St. Louis University, Washington University and University of Missouri St. Louis are the only AACSB accredited institutions in the St. Louis metropolitan area. Other institutions outside the metropolitan area may be approved if they are AACSB accredited and an equivalent or appropriate substitute course is offered at that institution.

**School of Business Student Services**
The School of Business Student Services Office provides professional academic advisors who help students develop academic plans to meet their program requirements and provide guidance to students with academic problems. This office also assists students who seek career advice by suggesting the names of faculty and career development professionals who provide such assistance. Before applying for a major or minor in business, students should contact this office to obtain more information about the School’s programs and the procedures for applying and completing degree requirements.

**Cougar Business Resource Center**
The Cougar Business Resource Center (CBRC), is located in Founders Hall and serves as a focal point for resources, programs, and co-curricular activities designed to support the development of cross-disciplinary skills for all undergraduate students. The facility provides students an engaging and exciting environment in which they can generate
ideas, share knowledge and practice critical skills. The CBRC offers small group meeting rooms where student teams can work on assignments and practice presentations, a permanent home for School of Business student organizations, a state-of-the-art conference room, a convenient place to access online resources, and an executive-in-residence office space where experienced business executives can provide guidance and mentoring for students. The CBRC was made possible through the generosity of alumni and corporate sponsorship.

**International Exchange Programs**
The School of Business offers student and faculty exchange programs with business schools and universities in China, France, Germany, Great Britain, and Italy. These programs permit students to pay tuition and register for course work at SIUE while completing the requirements for credit at one of these international institutions. Participation in an exchange program will meet the international study requirement for the International Business concentration in the Business Administration program. Students interested in studying abroad may obtain more information and an application from Dr. Janice Joplin, Associate Dean and Director, International Programs, School of Business, Box 1051, SIUE, Edwardsville, IL 62026, phone (618) 650-3412.

**Cooperative Education and Internships**
For enrollment certification purposes, University-sponsored cooperative education participation is considered equivalent to full-time enrollment. This requires formal enrollment in an approved co-op course through the Career Development Center. (See GBA 399.) The Career Development Center also coordinates business internships associated with GBA 398.

**Accountancy**
Founders Hall, Room 2110
situe.edu/business/

**Program Description**
Graduates of the undergraduate degree program in accountancy are prepared for employment in accounting in either the private or not-for-profit sector or for admission to a graduate program to prepare for the Uniform CPA Examination and a career in public accounting. Students receive an educational foundation which will allow them to grow professionally in the practice and study of accounting as they progress throughout their careers.

**Career Opportunities**
Several career paths are available to graduates of the undergraduate program. The possibilities include employment in corporate accounting and the not-for-profit sector. Graduates who work in corporate accounting may be employed as managerial accountants, internal auditors, income tax specialists, systems experts, or management consultants. Appropriate professional certifications within this segment of the accounting profession are Certified Management Accountant and Certified Internal Auditor. In the not-for-profit sector, accountants play important roles in governmental entities, health care organizations, and charitable agencies. Based on their wide range of business exposure and knowledge, many accountants ultimately move into high-level management positions. For students seeking a career in public accounting, the undergraduate program provides a foundation for successful completion of a graduate degree.

Professional certification as a certified public accountant is achieved by passing the Uniform CPA Examination. Many states, including Illinois and Missouri, require CPA candidates to accumulate 150 hours of college credit. Most candidates will satisfy that requirement by completing a graduate degree. Graduates who work in public accounting gain exposure to a wide variety of clients, their business practices, and their accounting methods. Public accountants may work in the areas of auditing, taxation, or management consulting.

**Degree Program**
Bachelor of Science in Accountancy, Accountancy

**Program Overview and General Department Information**

**Admission and Application Process**
Before applying to the program, students are encouraged to consult with an advisor in the School of Business Student Services Office to discuss the application process and plan a program of study.

To be admitted to the Bachelor of Science in Accountancy program, students must:
- Complete all Academic Development courses required by the University;
- Complete any courses required to address high school deficiencies;
- Apply for admission and be accepted into the School of Business. Students who are not accepted into a program will not be allowed to enroll in 300- or 400-level business courses and will not be eligible to declare a major in Accountancy.

**Application Deadlines**

<table>
<thead>
<tr>
<th>Session</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Term and Fall Semester</td>
<td>March 1</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>October 1</td>
</tr>
</tbody>
</table>

**Review of Applications**

The Undergraduate Admissions Committee of the School of Business will review all applications and students will be notified of their status within 45 days of the application deadline of the term for which they are seeking admission. An application to the School of Business is ready to be reviewed when all of the following criteria are met:

- Admission to SIUE.
- Submission of a completed undergraduate program application received by the School of Business Student Services Office by the stated deadline. Applications are available from the School of Business Web site, siue.edu/business, or in Business Student Services, on the third floor of Founders Hall. Applicants also must ensure that all transcripts from all community colleges and four-year institutions have arrived at the Service Center, Registrar’s Office, Box 1080, Edwardsville, IL 62026-1080 by the application deadline. Early completion of the application file is strongly encouraged.
- Sophomore status (30 hours earned).
- Successful completion (grade of C or higher) of any seven of the nine prerequisite courses. (Note: Students who apply for summer admission must have all 9 prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all 9 prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all 9 prerequisite courses completed by the end of the preceding fall semester).

Prerequisite courses required for the School of Business:

- ENG 101 and 102
- ACS 101
- CMIS 108
- ECON 111 and 112
- MATH 120
- ACCT 200
- MS 250 (students may substitute MATH 150 for both MATH 120 and MS 250)

- minimum prerequisite grade point average of 2.25 on a 4.0 scale
- minimum cumulative grade point average of 2.50 on a 4.0 scale

**Admission**

The admission decision will be based primarily on the student’s performance in collegiate-level work and the required essay. Other factors that may be considered in the admission decision include, but are not limited to, courses taken, pattern and trend of grades, institutions attended, co-curricular activities, as well as career- or work-related experience. The School of Business intends to admit students who demonstrate the greatest likelihood of academic success while also ensuring the diversity of the student body.

Admission to School of Business programs is competitive, and not all students who apply to the School of Business will be admitted. Since the number of students being admitted depends on the capacity of the school, applicants cannot be guaranteed admission to the School of Business based on a given grade point average.

**Transfer Students**

The application process described above must be followed. Transfer students may contact the School of Business Student Services Office with questions regarding transferability and equivalency of business course work completed at other institutions. The School of Business accepts lower-division courses taken at other institutions only as lower-division (100- and 200-level) courses.

**Students who already hold a Bachelor’s Degree**

Students who already hold a bachelor’s degree (“Seniors with Degree”) are not required to submit a separate application to the School of Business; rather, they should meet with an academic advisor in the School of Business Student Services office after they have been admitted to SIUE for program advisement and planning.

**Declaration of Major**

Once students are admitted to the School of
Business, they may declare an accountancy major if they have also earned at least a 2.5 or higher cumulative grade point average. Students not declared to the accountancy major are only allowed to enroll in Accounting 301, 311 and 340. To take additional accounting courses students must be declared to the accountancy major.

Retention
Students must achieve and remain in good standing to be retained in the accountancy program. Good standing means a student has a minimum grade point average of 2.5 cumulative, 2.5 in accounting courses and 2.25 in required business courses. Students who fail to maintain at least 2.5 cumulative and accounting grade point averages at SIUE will be placed on program probation. Students will be notified when they are not meeting the grade point average retention standards and will be informed of the timeframe allowed to improve their grade point average. Students who do not meet retention requirements for two consecutive terms will be separated from the accountancy major. Students whose cumulative grade point average is below 2.25 will be removed from the School of Business. Students remaining below a 2.5 accounting grade point average for two terms may be dropped from the accountancy program. A student also may be dropped from the accountancy program for receiving any combination of three withdrawal, incomplete, or failing grades in a single required accounting course. Students who are not in good standing will not be permitted to take ACCT 303, 401, 421, or 431.

Degree Requirements
Lincoln Program General Education Requirements
* Courses that require a grade of C or higher.

Foundations Courses (5 required)
ENG 101*  ENG 102*  ACS 101*  RA 101
QR 101 (or MATH 150)

Breadth Courses (6 required)
ECON 111* (meets Breadth Social Science (BSS), major requirement)  
Breadth Humanities (BHUM) Course  
Breadth Fine and Performing Arts (BFPA) Course  
Math 120* (meets Breadth Physical Science (BPS), major requirement)  
Breadth Life Sciences (BLS) Course  
CMIS 108* (meets Breadth Information and Communication in Society (BICS) Course, major requirement)

Experiences Requirements
New Freshman Seminar (CMIS 108 recommended or students can choose from the approved courses)

Laboratory Experience (EL) (MS 251, major requirement, will meet one EL science requirement)
Global Cultures Experience (EGC) (Met by IS 401, major requirement)
U.S. Cultures Experience (EUSC)
Health Experience (EH)

Additional General Education Requirements
Interdisciplinary Studies (met by IS 401, major requirement)

Bachelor of Science Requirements
To complete a Bachelor of Science degree at SIUE, students must have a total of at least eight (8) courses in the sciences (life, physical or social), including, as part of those eight courses, two (2) courses designated as labs (EL). The courses listed below are included as a part of the required courses for the major or as a part of the Breadth requirements.

1. Social, Physical, or Life Science Course (Students should choose a course with a lab, EL, to fulfill this requirement)
2. Social, Physical, or Life Science Course (Students will choose from the approved courses)
3. ECON 111* (Required for all business majors, also used for Breadth Course, see above)
4. ECON 112* (Required for all business majors, see below)
5. MATH 120* (Required for all business majors, also applies as a Breadth Course, see above)
6. MS 250* (Required for all business majors, see below)
7. MS 251* (Required for all business majors, see below, also meets one EL course requirement)
8. Breadth Life Science Course (also meets Breadth Requirement above)

Students should consult with an academic advisor to ensure proper completion of Lincoln Program general education requirements.

Accounting Major Requirements
ACCT 200#  ACCT 301*  ACCT 302  ACCT 303*
ACCT 311  ACCT 312  ACCT 315  ACCT 321
ACCT 340  CMIS 108*  CMIS 342  ECON 111*
ECON 112*  ENG 101*  ENG 102*  FIN 320
GBA 301  GBA 402  IS 401  MATH 120**
MS 250**  MS 251*  MGMT 330  MGMT 331
MGMT 441*  MKTG 300  PROD 315  ACS 101*

*Plus two of the following:
ACCT 401  ACCT 421  ACCT 431

*Courses that require a grade of C or better.
#B or higher required.
**Students may substitute MATH 150 (with a grade of C or better) for both MATH 120 & MS 250.
Research Requirement
This requirement normally will be met by taking Accounting 303 or other course specified by the department.
Sample Curriculum for the Bachelor of Science in Accountancy

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>CMIS 108 or CS 108 – Computer Concepts (BICS)*</td>
<td>ECON 111 Macroeconomics (BSS)*</td>
</tr>
<tr>
<td>ENG 101 English Composition I*</td>
<td>ENG 102 English Composition II*</td>
</tr>
<tr>
<td>MATH 120 College Algebra (BPS)*''</td>
<td>Humanities (BHUM)</td>
</tr>
<tr>
<td>ACS 101 Public Speaking*</td>
<td>RA 101, PHIL 213 (RA)</td>
</tr>
<tr>
<td>ECON 112 Microeconomics (BSS)*</td>
<td>Fine and Performing Arts (BFPA)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

| **Year 2** | **Year 2** |
| ACCT 200 Fundamentals of Financial Acct# | MS 251 Statistical Analysis for Business Decisions* (EL) |
| MS 250 Mathematical Methods*'' | Health Experience (EH) |
| Life (LS), Physical (PS) or Social Science (SS) | Life (LS), Physical (PS) or Social Science (SS) (EL) |
| Life Science (BLS) | U. S. Cultures Course (EUSC) |
| Quantitative Reasoning 101 or MATH 150 (FQR) | Elective |
| **Total** | **Total** |

**Admission to the School of Business is required to enroll in any 300- or 400-level business courses.**

| **Year 3** | **Year 3** |
| ACCT 301 Intermediate Accounting Theory & Practice I* | ACCT 302 Intermediate Accounting Theory & Practice II |
| ACCT 315 Accounting Systems | ACCT 311 Managerial & Cost Acct* |
| MGMT 330 Understanding the Business Environment | MGMT 331 Managing Group Projects |
| GBA 301 - Business Transitions I | MKTG 300 Principles of Marketing |
| Elective | Total |
| **Total** | **Total** |

| **Year 4** | **Year 4** |
| ACCT 303 Intermediate Acct Theory & Practice III* | ACCT 321 Introduction to Taxation |
| ACCT 312 Managerial Cost Accounting II | GMB 441 Strategic Management* |
| ACCT 340 Business Law | IS 401 Business & Society (EGC) |
| FIN 320 Financial Management (ACCT 311 is a prerequisite) | GBA 402 Business Transitions II |
| CMIS 342 Information Systems for Business | Two of the following - ACCT 401, 421, or 431 |
| **Total** | **Total** |

*Courses that require a grade of C or better.

^ Students may substitute MATH 150 (with a grade of C or better) for MATH 120 and MS 250.

# B or higher required.

Graduation Requirements

Cumulative University grade point average required: 2.5

Accounting grade point average (in all required accounting courses taken at SIUE): 2.5

Business grade point average (in all required business courses taken at SIUE): 2.25

C or higher in Management 441 (meets University Senior Assignment)

C or higher in courses marked with * in course Degree Requirements section

Business Administration

Founders Hall, Room 3307
siue.edu/business

Program Description

The degree program in business administration provides students with a basic understanding of the functional areas of business, the behavior of organizations, and decision-making processes. These courses provide students with (a) quantitative and analytical skills, (b) an understanding of the economic, social, political, and legal environments in which business decisions are made, (c) knowledge of accounting and information systems,
(d) insights into organizational behavior, development, goal setting, and management of human resources, (e) an understanding of the ethical and global issues confronting business, and (f) leadership and team-building skills through the student’s analysis of business cases and other experiential exercises.

In addition to the general business administration major, students may elect to pursue an approved specialization. Students are encouraged to select their specializations and electives in consultation with the faculty and an academic advisor in Business Student Services.

Career Opportunities and Areas of Specialization

Students seeking a bachelor of science in business administration will complete one of the specializations described below. Students are encouraged to discuss their career objectives and the various elective courses with faculty in the School of Business before making this decision. The School of Business Student Services Office may be contacted for a list of the specializations and their requirements.

Economics

The specialization in economics provides students with knowledge of analytical methods for solving basic problems affecting profit and growth of the business organization. In addition, economics offers courses that are fundamental to forecasting, planning, and budgeting. Graduates of the program are qualified for careers in administration and management of business firms, in banking and insurance, and in federal, state and local government agencies. Graduation with this specialization requires a 2.25 grade point average in all economics courses.

Entrepreneurship

The entrepreneurship specialization focuses on the special problems of new venture development and the management of the small business enterprise. The specialization prepares students for entrepreneurial and managerial roles in small ventures as well as for new venture management and “intrapreneurship” roles in larger firms. By carefully selecting courses in other areas of business, students can prepare for positions in manufacturing, service, or retailing organizations. The specialization requires a practicum (MGMT 476) in which students work with start-up ventures, small businesses, or small business development groups to apply their knowledge to small business problems.

Finance

The finance specialization prepares students for decision-making positions in the areas of corporate finance, investments, and management of financial institutions. Courses in finance are designed to help students understand the complex world of global finance and business. The specialization emphasizes financial knowledge and skills that are necessary to succeed in today’s diverse and highly technical business world.

Human Resource Management

The human resource management specialization provides students with the general and technical knowledge and skills for entry-level positions and careers in the personnel or human resource management (HRM) function of organizations. Courses emphasize both the general theory of HRM, the expanding role of HRM in organizational effectiveness, the development and effective use of human resources in organizations, and the technical areas of selection, compensation, labor relations, training, and performance appraisal. The specialization prepares students for professional careers in a wide variety of organizations.

International Business

The international business specialization is an interdepartmental specialization emphasizing the increasingly global dimensions of business. Through courses focusing on the international dimensions of management, marketing, finance, and economics, students gain an understanding of the international aspects of business. The specialization is designed for students interested in positions in the areas of international trade and finance and industrial development. The School of Business also has agreements with several foreign universities through which students can experience the international aspects of education and work as well as enhance their foreign language capabilities.

Management

The management specialization provides students with the knowledge and skills necessary to become effective managers in organizations. The courses in this specialization emphasize the complex nature of organizations and the skills and knowledge necessary to manage human resources, design effective organizational systems, and diagnose and solve organizational problems. In addition, the specialization emphasizes the
increasingly global nature of business and coping with change in internal and external environments. The specialization provides the flexibility to accommodate students with a variety of interests and prepares them for managerial careers in private and public sector organizations.

**Management Information Systems**
The management information systems specialization is designed to prepare students to work with business computer technology. Students learn to design information systems to support decision making and the operation of business and organization functional areas. The design process includes the specification of hardware, software, and personnel requirements. Students must maintain a 2.5 GPA in all CMIS courses.

**Marketing**
The marketing specialization is designed to enable students to analyze the problems of providing consumer and industrial goods and services to a wide variety of markets. The curriculum prepares students for positions in sales, advertising, promotion, research, product management, and marketing management. Further, the study of dynamic problems that affect all enterprises in communicating with their constituencies prepares students for careers in commercial, governmental, and service organizations that serve the public in ways other than producing tangible goods.

**General Business Administration**
Those who do not select a specialization from the above options must take four Business courses beyond the common business core. Four approved 300- and/or 400-level business or non-business courses must be completed and students are required to propose courses and rationale for request. Students are encouraged to select their electives in consultation with the faculty and an academic advisor in Business Student Services.

**Degree Programs**
Bachelor of Science, Business Administration Specializations Available in the following:
- Economics
- Entrepreneurship
- Finance
- Human Resource Management
- International Business
- Management
- Management Information Systems
- Marketing

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**Program Overview and General Department Information**

**Admission and Application Process**
Before applying to the program, students are encouraged to consult with an advisor in the School of Business Student Services Office to discuss the application process and plan a program of study.

To be admitted to the Bachelor of Science in Business Administration program, students must:
- Complete all Academic Development courses required by the University;
- Complete any courses required to address high school deficiencies;
- Apply for admission and be accepted into the School of Business. Students who are not accepted into a program will not be allowed to enroll in 300- or 400- level business courses and will not be eligible to declare a major in Business Administration.

**Application Deadlines**
- Summer Term and Fall Semester: March 1
- Spring Semester: October 1

**Review of Applications**
The Undergraduate Admissions Committee of the School of Business will review all applications and students will be notified of their status within 45 days of the application deadline of the term for which they are seeking admission. An application to the School of Business is ready to be reviewed when all of the following criteria are met:
- Admission to SIUE.
- Submission of a completed undergraduate program application received by the School of Business Student Services Office by the stated deadline. Applications are available from the School of Business Web site, siue.edu/business, or in Business Student Services, on the third floor of Founders Hall. Applicants also must ensure that all transcripts from all community colleges and four-year institutions have arrived at the Service Center, Registrar’s Office, Box 1080, Edwardsville, IL 62026-1080 by the application deadline. Early completion of the application file is strongly encouraged.
- Sophomore status (30 hours earned).
- Successful completion (grade of C or higher) of any seven of the nine prerequisite courses.
(Note: Students who apply for summer admission must have all 9 prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all 9 prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all 9 prerequisite courses completed by the end of the preceding fall semester).

Prerequisite courses required for the School of Business

- ENG 101 and 102
- ACS 101
- CMIS 108
- ECON 111 and 112
- MATH 120
- ACCT 200
- MS 250 (students may substitute MATH 150 for both MATH 120 and MS 250)
- minimum prerequisite grade point average of 2.25 on a 4.0 scale
- minimum cumulative grade point average of 2.25 on a 4.0 scale

Admission Decision

The admission decision will be based primarily on the student’s performance in collegiate-level work and the required essay. Other factors that may be considered in the admission decision include, but are not limited to, courses taken, pattern and trend of grades, institutions attended, co-curricular activities, as well as career- or work-related experience. The School of Business intends to admit students who demonstrate the greatest likelihood of academic success while also ensuring the diversity of the student body.

Admission to School of Business programs is competitive, and not all students who apply to the School of Business will be admitted. Since the number of students being admitted depends on the capacity of the school, applicants cannot be guaranteed admission to the School of Business based on a given grade point average.

Transfer Students

The application process described above must be followed. Transfer students may contact the School of Business Student Services Office with questions regarding transferability and equivalency of business course work completed at other institutions. The School of Business accepts lower-division courses taken at other institutions only as lower-division (100- and 200-level) courses.

Students who already hold a Bachelor’s Degree

Students who already hold a bachelor’s degree (Seniors with Degree) are not required to submit a separate application to the School of Business; rather, they should meet with an academic advisor in the School of Business Student Services Office after they have been admitted to SIUE for program advisement and planning.

Declaration of Major

Once students are admitted to the School of Business, they may declare a business administration major if they have also earned at least a 2.25 or higher cumulative grade point average.

Retention

Once declared into the Business Administration program, students must achieve and maintain at least a 2.25 cumulative grade point average. Students who fail to maintain at least a 2.25 cumulative grade point average at SIUE will be placed on program probation. Students will be notified when they are not meeting the cumulative grade point average retention standard and will be informed of the timeframe allowed to improve their grade point average. Students who do not meet retention requirements for two consecutive terms will be separated from the business administration major and will be removed from the School of Business.

Degree Requirements

Lincoln Program General Education Requirements

* Courses that require a grade of C or higher.

Foundation Courses (5 required)
- ENG 101*
- ENG 102*
- ACS 101*
- RA 101
- QR 101

Breadth Area Courses (6 required)
- ECON 111* (meets Breadth Social Science (BSS), major requirement)
- Breadth Humanities (BHUM) Course
- Breadth Fine and Performing Arts (BFPA) Course
- Math 120* (meets Breadth Physical Science (BPS), major requirement)
- CMIS 108* (meets Breadth Information and Communication in Society (BICS) Course, major requirement)

Experiences Requirements

New Freshman Seminar (CMIS 108 recommended or students can choose from the approved courses)
- Experience Laboratory (EL) (MS 251, major requirement, will meet one EL science requirement)
- Experience Global Cultures (EGC) (Met by IS 401, major requirement)
- Experience U.S. Cultures (EUSC)
- Health Experience (EH)
Additional General Education Requirements
Interdisciplinary Studies (met by IS 401, major requirement)

Bachelor of Science Requirements
To complete a Bachelor of Science degree at SIUE, students must have a total of at least eight (8) courses in the sciences (life, physical or social), including, as part of those eight courses, two (2) courses designated as labs (EL). The courses listed below are included as a part of the required courses for the major or as a part of the Breadth Area requirements.

1. Social, Physical, or Life Science Course (Students must choose a course with a lab, EL, to fulfill this requirement)
2. Social, Physical, or Life Science Course (Students will choose from the approved courses)
3. ECON 111* (Required for all business majors, also used for Breadth Area Course, see above)
4. ECON 112* (Required for all business majors, see above)
5. MATH 120* (Required for all business majors, also used for Breadth Area Course, see above)
6. MS 250* (Required for all business majors, see below)
7. MS 251* (Required for all business majors, see below)
8. Breadth Life Science Course (See Breadth Area Life Sciences course above)

Students should consult with an academic advisor to ensure proper completion of Lincoln Program general education requirements.

Business Administration Major Requirements
ACCT 200*  ACCT 210*  CMIS 342  ENG 101*  GBA 301  MGMT 330  MS 250**  PROD 315  Business Elective
ECON 111*  ECON 112*  ECON 102*  GBA 402  MGMT 331  MS 251*  IS 401  Research Requirement*
CMIS 108*  ECON 112*  FIN 320  MATH120**  MGMT 441*  MKTG 300  ACS 101*  Specialization Courses (See below)

*Courses that require a grade of C or better
^Students may substitute MATH 150 (with a grade of C or higher) for both MATH 120 & MS 250
+Research Requirement*: To be selected from the following list of courses that contain a significant research component:
ECON 417, FIN 430, MKTG 377, CMIS 470

Specialization Courses (See below)

Economics
(Five courses required; 2.25 GPA in all Economics courses required)
ECON 301  ECON 302  ECON Elective  ECON Elective
ECON Elective  ECON Elective
Economics Electives should be chosen from 300- and 400-level Economics courses.

Entrepreneurship
(Four courses required)
MGMT 430  MGMT 475  MGMT 476
Plus one of the following:
MGMT 431  MGMT 432  MGMT 433
MGMT 451  MGMT 461  MGMT 485

Finance
(Five courses required; C or higher required in FIN 320)
FIN 420  FIN 430* (also meets research requirement)
FIN 460  FIN Elective  FIN Elective
Finance Electives should be chosen from 300- and 400-level Finance courses.

General Business Administration - No Specialization
(Four courses required)
Four approved 300- and/or 400-level business or non-business courses. Students are required to propose courses and rationale for request.

Human Resource Management
(Five courses required)
MGMT 430  MGMT 431  MGMT 432  MGMT 433
Plus one of the following:
MGMT 451  MGMT 485  ECON 331
PSYC 320  PSYC 473  SOC 304
SOC 338  SOC 431  SOC 444
ACS 300  ACS 403

International Business
Students must complete Foreign Language/Study Abroad Options described below and complete four business courses focused on International Business.
Option A: FL 111x, FL 101, 102, 201, 202, 301, one 300- or 400-level FL Elective and one full semester of study abroad totaling 12-15 hrs.
or
Option B: FL 111x, FL 101, 102, 201, 202, 301, and two 300- or 400-level FL electives and 3 hours of study abroad.
All International Business students must complete four of the following:
ECON 361  ECON 461  FIN 450
MKTG 476  MGMT 461

Management
(Four courses required)
MGMT 430
Plus three of the following:
MGMT 451  MGMT 461  MGMT 475  MGMT 485
One of MGMT 431 or MGMT 432 or MGMT 433
Note: Students may substitute one of the following for one of the above choices:
PSYC 365  PSYC 474  SOC 338  POLS 320
ACS 403

Specialization Courses
Students must complete one of the following specializations as a part of the degree requirements. Students completing two or more specializations must satisfy all requirements for each specialization. Courses used for one specialization may not be used to satisfy requirements for another specialization.

Economics
(Five courses required; 2.25 GPA in all Economics courses required)
ECON 301  ECON 302  ECON Elective  ECON Elective
ECON Elective  ECON Elective
Economics Electives should be chosen from 300- and 400-level Economics courses.

Entrepreneurship
(Four courses required)
MGMT 430  MGMT 475  MGMT 476
Plus one of the following:
MGMT 431  MGMT 432  MGMT 433
MGMT 451  MGMT 461  MGMT 485

Finance
(Five courses required; C or higher required in FIN 320)
FIN 420  FIN 430* (also meets research requirement)
FIN 460  FIN Elective  FIN Elective
Finance Electives should be chosen from 300- and 400-level Finance courses.

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(Four courses required)
Four approved 300- and/or 400-level business or non-business courses. Students are required to propose courses and rationale for request.

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(Five courses required)
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Option B: FL 111x, FL 101, 102, 201, 202, 301, and two 300- or 400-level FL electives and 3 hours of study abroad.
All International Business students must complete four of the following:
ECON 361  ECON 461  FIN 450
MKTG 476  MGMT 461

Management
(Four courses required)
MGMT 430
Plus three of the following:
MGMT 451  MGMT 461  MGMT 475  MGMT 485
One of MGMT 431 or MGMT 432 or MGMT 433
Note: Students may substitute one of the following for one of the above choices:
PSYC 365  PSYC 474  SOC 338  POLS 320
ACS 403

Specialization Courses
Students must complete one of the following specializations as a part of the degree requirements. Students completing two or more specializations must satisfy all requirements for each specialization. Courses used for one specialization may not be used to satisfy requirements for another specialization.

Economics
(Five courses required; 2.25 GPA in all Economics courses required)
ECON 301  ECON 302  ECON Elective  ECON Elective
ECON Elective  ECON Elective
Economics Electives should be chosen from 300- and 400-level Economics courses.
Management Information Systems
(Five courses required)
2.5 GPA in all CMIS courses required.
Students must be declared into this specialization to register for 300- and 400-level CMIS courses.
Students who plan to seek future employment with companies using systems based on COBOL are also urged to take CMIS 260.
CMIS 130 CMIS 270* CMIS 310 CMIS 450 CMIS 468

Marketing
(Five courses required)
MKTG 377 * (also meets research requirement)
MKTG 480
Plus three of the following:
MKTG 466 MKTG 467 MKTG 468 MKTG 470 MKTG 471 MKTG 472 MKTG 474 MKTG 475 MKTG 476 MKTG 479

Sample Curriculum for the Bachelor of Science – Business Administration

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>CMIS 108 or CS 108 – Computer Concepts(BICS)*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 112 – Microeconomics*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101 – English Composition I*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 120 – College Algebra** (BPS)</td>
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<tr>
<td>ACS 101 – Public Speaking*</td>
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<td>ACCT 200 – Fundamentals of Financial Accounting*</td>
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<td>Breadth Humanities (BHUM)</td>
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<td>Quantitative Reasoning 101, MATH 150 or Higher</td>
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<td>Experience U.S Cultures Course (EUSC)</td>
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<td><strong>Year 3</strong></td>
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<td>MGMT 330– Understanding the Bus Environment</td>
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<td>MKTG 300 – Principles of Marketing</td>
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<td>Life (LS), Physical (PS) or Social Science (SS) (EL)</td>
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<td>GBA 301 - Business Transitions I*</td>
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<td>MGMT 331– Managing Group Projects</td>
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<td>IS 401 – Business &amp; Society (EGC)</td>
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<td>PROD 315 – Operations Management</td>
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<td>CMIS 342 – Info Systems for Business</td>
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<td>FIN 320 – Financial Management</td>
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<td><strong>Year 4</strong></td>
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<tr>
<td>MGMT 441 – Strategic Management*</td>
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<td>Research Requirement*</td>
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<tr>
<td>Business Elective (300-400 level)</td>
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<td>Specialization Course</td>
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<td>Specialization Course (or Elective)</td>
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<td>GBA 402 Business Transitions II</td>
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<tr>
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<td>16</td>
</tr>
</tbody>
</table>

*C or higher required.
*Students may substitute MATH 150 (with a grade of C or better) for MATH 120 and MS 250.
Graduation Requirements
Cumulative SIUE grade point average required: 2.25

Business grade point average required (in all required business courses taken at SIUE): 2.25

C or higher in Management 441 (University Senior Assignment)

C or higher in courses marked with * in Degree Requirements section

Other Specialization grade point average requirements apply as listed in the Degree Requirements section.

Business Administration Minor for Non-Business Majors
Students who have declared their major in a non-business field may earn a minor in business administration. Students majoring in Accountancy, Business Administration, Business Economics and Finance or Computer Management and Information Systems are not allowed to minor in Business Administration. To declare a minor in business administration, students must have a cumulative grade point average of 2.25 or above. To earn a minor in business administration, students must complete a minimum of 21 credit hours (maximum of 30 credit hours) in approved course work as specified below:

Required Courses
ECON 111
ECON 112
ACCT 200

Business Elective Courses
Minimum required 12 hours
Maximum allowed 21 hours

To fulfill their Business Electives requirements, students may choose from any course offered through the academic departments and disciplines in the School of Business (Accounting, CMIS, Economics & Finance, and Management & Marketing); however, CMIS 108 and MS 250 cannot be used for electives in the business administration minor. College of Arts and Sciences economics majors may not count ECON 111, ECON 112, or any economics major course in the 21 hours required for the Business Administration minor. Students must meet all stated course prerequisites to enroll in any business course. Students should consult with a business advisor and choose business electives that are related to their educational and career objectives.

Graduation Requirements
To earn a minor in business administration, students must complete a minimum of 12 hours in business courses at SIUE and maintain a cumulative GPA of at least 2.25 in all course work used for the minor.

Business Economics and Finance

Alumni Hall, Room 3129
siue.edu/business

Program Description
The bachelor of science in business economics and finance prepares students for a variety of career paths: entry-level positions in financial analysis and services or in many areas of government service; graduate study in economics, finance, or business; and the study of business-related areas of law. Majors with strong academic records can complete the master's in economics and finance in one additional year.

Career Opportunities
Financial analysts work in commercial and investment banks, brokerage houses, mutual funds, life and health insurance companies, real estate investment trusts, pension funds, and corporate finance departments of non-traditional businesses. Students also will find that this degree prepares them well for many positions with government agencies, particularly those offices addressing budget, revenues, debt management, forecasting, or economic development. This curriculum also provides a solid foundation for students interested in attending law school, especially in tax, antitrust, corporate (mergers and acquisitions) or securities law specialties. Students interested in other areas of economics or law may wish to enroll in one of the economics degree programs offered through the College of Arts and Sciences. (See the College of Arts and Sciences section of this catalog.)

Degree Program
Bachelor of Science, Business Economics and Finance

Program Overview and General Department Information
Admission and Application Process
Before applying to the program, students are encouraged to consult with an advisor in the
School of Business Student Services Office to discuss the application process and plan a program of study.

To be admitted to the Bachelor of Science in Business Economics and Finance program, students must:

- Complete all Academic Development courses required by the University;
- Complete any courses required to address high school deficiencies;
- Apply for admission and be accepted into the School of Business. Students who are not accepted into a program will not be allowed to enroll in 300- or 400-level business courses and will not be eligible to declare a major in Business Economics and Finance.

**Application Deadlines**

| Summer Term and Fall Semester | March 1 |
| Spring Semester                | October 1 |

**Review of Applications**

The Undergraduate Admissions Committee of the School of Business will review all applications and students will be notified of their status within 45 days of the application deadline of the term for which they are seeking admission. An application to the School of Business is ready to be reviewed when all of the following criteria are met:

- Admission to SIUE.
- Submission of a completed undergraduate program application received by the School of Business Student Services Office by the stated deadline. Applications are available from the School of Business Web site, siue.edu/business, or in Business Student Services, on the third floor of Founders Hall. Applicants also must ensure that all transcripts from all community colleges and four-year institutions have arrived at the Service Center, Registrar’s Office, Box 1080, Edwardsville, IL 62026-1080 by the application deadline. Early completion of the application file is strongly encouraged.
- Sophomore status (30 hours earned).
- Successful completion (grade of C or higher) of any seven of the nine prerequisite courses. (Note: Students who apply for summer admission must have all 9 prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all 9 prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all 9 prerequisite courses completed by the end of the preceding fall semester).

**Prerequisite courses required for the School of Business:**

- ENG 101 and 102
- ACS 101
- CMIS 108
- ECON 111 and 112
- MATH 120
- ACCT 200
- MS 250 (students may substitute MATH 150 for both MATH 120 and MS 250)
- minimum prerequisite grade point average of 2.25 on a 4.0 scale
- minimum cumulative grade point average of 2.25 on a 4.0 scale

**Admission**

The admission decision will be based primarily on the student’s performance in collegiate-level work and the required essay. Other factors that may be considered in the admission decision include, but are not limited to, courses taken, pattern and trend of grades, institutions attended, co-curricular activities, as well as career- or work-related experience. The School of Business intends to admit students who demonstrate the greatest likelihood of academic success while also ensuring the diversity of the student body.

Admission to School of Business programs is competitive, and not all students who apply to the School of Business will be admitted. Since the number of students being admitted depends on the capacity of the school, applicants cannot be guaranteed admission to the School of Business based on a given grade point average.

**Transfer Students**

The application process described above must be followed. Transfer students may contact the School of Business Student Services Office with questions regarding transferability and equivalency of business course work completed at other institutions. The School of Business accepts lower-division courses taken at other institutions only as lower-division (100- and 200-level) courses.

**Students who already hold a Bachelor’s Degree**

Students who already hold a bachelor’s degree (Seniors with Degree) are not required to submit a separate application to the School of Business; rather, they should meet with an
academic advisor in the School of Business Student Services office after they have been admitted to SIUE for program advisement and program planning.

**Declaration of Major**

Once students are admitted to the School of Business, they may declare a business economics and finance major if they have also earned at least a 2.25 or higher cumulative grade point average.

**Retention**

Once declared into the business economics and finance program, students must maintain at least a 2.25 cumulative grade point average. Students who fail to maintain at least a 2.25 cumulative grade point average at SIUE will be placed on program probation. Students will be notified when they are not meeting the cumulative grade point average retention standard and will be informed of the timeframe allowed to improve their grade point average. Students who do not meet retention requirements for two consecutive terms will be separated from the business economics and finance major and will be removed from the School of Business.

**Lincoln Program General Education Requirements**

* Courses that require a grade of C or higher.

<table>
<thead>
<tr>
<th>Foundations Courses (5 required)</th>
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<tbody>
<tr>
<td>ENG 101*</td>
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<tr>
<td>ACS 101*</td>
<td>RA 101</td>
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<table>
<thead>
<tr>
<th>Breadth Courses (6 required)</th>
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<tr>
<td>ECON 111* (meets Breadth Social Science (BSS), major requirement)</td>
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<tr>
<td>Breadth Humanities (BHUM) Course</td>
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<tr>
<td>Breadth Fine and Performing Arts (BFPA) Course</td>
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</tr>
<tr>
<td>Math 120* (meets Breadth Physical Science (BPS), major requirement)</td>
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<tr>
<td>Breadth Life Sciences (BLS) Course</td>
<td></td>
</tr>
<tr>
<td>CMIS 108* (meets Breadth Information and Communication in Society (BICS) Course, major requirement)</td>
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**Experiences Requirements**

New Freshman Seminar (CMIS 108 recommended or students can choose from the approved courses)

Laboratory Experience (MS 251, major requirement, will meet one EL science requirement)

Experience Global Cultures (Met by IS 401, major requirement)

Experience U.S. Cultures

Health Experience

**Additional General Education Requirements**

Interdisciplinary Studies (met by IS 401)

**Bachelor of Science Requirements**

To complete a Bachelor of Science degree at SIUE, students must have a total of at least eight (8) courses in the sciences (life, physical or social), including, as part of those eight courses, two (2) courses designated as labs (EL). The courses listed below are included as a part of the required courses for the major or as a part of the Breadth Area requirements.

1. Social, Physical, or Life Science Course (Students must choose a course with a lab, EL, to fulfill this requirement)
2. ECON 301 (Required for all Business Economics and Finance majors)
3. ECON 111* (Required for all business majors, also used for Breadth Area Course, see above)
4. ECON 112* (Required for all business majors, see above)
5. MATH 120* (Required for all business majors, also used for Breadth Area Course, see above)
6. MS 250* (Required for all business majors, see below)
7. MS 251* (Required for all business majors, see below, also meets one EL course requirement)
8. Breadth Life Science Course (See Breadth Area Requirements above)

Students should consult with an academic advisor to ensure proper completion of Lincoln Program general education requirements.

**Business Economics and Finance Major Requirements**

<table>
<thead>
<tr>
<th>ACCT 200*</th>
<th>ACCT 210*</th>
<th>CMIS 108*</th>
<th>CMIS 342</th>
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<td>ENG 102*</td>
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<tr>
<td>FIN 320*</td>
<td>GBA 301</td>
<td>GBA 402</td>
<td>MATH 120*</td>
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<td>MGMT 330</td>
<td>MGMT 331</td>
<td>MGMT 441*</td>
<td>MKTG 300</td>
</tr>
<tr>
<td>MS 250*</td>
<td>MS 251*</td>
<td>PROD 315</td>
<td>IS 401</td>
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<tr>
<td>ACS 101*</td>
<td>ECON 301</td>
<td>ECON 302</td>
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<tr>
<td>ECON or FIN 415th or 417th</td>
<td>FIN 420</td>
<td>FIN 430th</td>
<td>FIN 460</td>
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</table>

* Courses that require a grade of C or better

^ Students may substitute MATH 150 (with a grade of C or better) for both MATH 120 & MS 250

## In order to meet the research requirement, a grade of C or better is required in ECON/FIN 415, 417 or FIN 430.

From the following elective groups, students must choose two courses from Economics, one course from Finance, and one course from International. (Courses cannot be cross applied to the different elective areas even if they appear on more than one list.)

**Two of the following Economics courses:**

ECON 221  ECON 327  ECON 331  ECON 341  ECON 344  ECON 345  ECON 361  ECON 400  ECON 415  ECON 417  ECON 435  ECON 445  ECON 461

**One of the following Finance courses:**

FIN 341  FIN 344  FIN 400  FIN 415  FIN 417  FIN 431  FIN 435  FIN 440  FIN 450  FIN 460  FIN 470  FIN 480

**One of the following International courses:**

ECON 461  FIN 450
Sample Curriculum for the Bachelor of Science in Business Economics and Finance

Fall Semester

Year 1
- ECON 112 – Microeconomics* ........................................ 3
- CMIS 108 or CS 108 – Computer Concepts (BICS)* ............ 3
- ENG 101 – English Composition I* ..................................... 3
- MATH 120 – College Algebra (BPS)^ ................................... 3
- ACS 101 - Public Speaking* .............................................. 3
Total .................................................................................. 15

Year 2
- ACCT 200 – Financial Accounting* ................................... 3
- MS 251 – Statistical Analysis for Business Decisions* (EL) .... 4
- Breadth Humanities (BHUM) .............................................. 3
- Elective ............................................................................. 3
- Experience U.S. Cultures Requirement (EUSC) .................... 3
Total .................................................................................. 16

Admission to the School of Business is required to enroll in any 300- or 400-level business courses.

Year 3
- FIN 320 – Financial Management & Decision Making* ........ 3
- Health Experience Requirement (EH) .................................. 3
- MGMT 330 – Understanding the Bus Environ ........................ 3
- Life (LS), Physical (PS) or Social Science (SS) (EL) ............. 3
- GBA 301 - Business Transitions I ........................................ 1
- Electives ............................................................................ 3
Total .................................................................................. 16

Year 4
- ECON 461 – Intl. Trade Theory/Policy or
  FIN 450 – Intl. Finance ...................................................... 3
- ECON/FIN 415 – Econometrics## or
  ECON/FIN 417 – Business Forecasting## ............................ 3
- FIN 460 – Corp Financial Analysis & Strategy ....................... 3
- ECON Elective .................................................................... 3
- CMIS 342 – Information Systems for Business .................... 3
Total .................................................................................. 15

* C or higher required.
^ Students may substitute MATH 150 (with a grade of C or better) for MATH 120 and MS 250.
## In order to meet the research requirement, a grade of C or better is required in ECON/FIN 415, 417 or FIN 430.

Spring Semester

Year 1
- ECON 111 – Macroeconomics (BSS)* ............................. 3
- ENG 102 – English Composition II* ..................................... 3
- MS 250 – Mathematical Methods ^ * .................................. 3
- RA 101 or PHIL 212 ........................................................... 3
- Breadth Life Science (BLS) .................................................. 3
Total .................................................................................. 15

Year 2
- ECON 301 – Intermediate Microeconomic Theory ............... 3
- ECON 302 – Intermediate Macroeconomic Theory ............... 3
- ACCT 210 – Managerial Accounting* ................................. 3
- QR 101, MATH 150 or Higher ............................................ 3
- Fine & Performing Arts (BFPA) .......................................... 3
Total .................................................................................. 15

Year 3
- ECON Elective ................................................................. 3
- FIN 420 – Problems in Corporate Finance ........................... 3
- MGMT 331 – Managing Group Projects ............................... 3
- MKTG 300 – Principles of Marketing .................................. 3
- PROD 315 – Prod & Operations Management ...................... 3
Total .................................................................................. 15

Year 4
- FIN 430 – Portfolio Analysis## ........................................... 3
- FIN Elective ........................................................................ 3
- IS 401 – Business & Society (EGC) .................................... 3
- MGMT 441 – Strategic Management* .................................. 3
- GBA 402 - Business Transitions II ..................................... 1
Total .................................................................................. 13

Graduation Requirements
Cumulative SIUE grade point average required: 2.25
Business grade point average required (in all required business courses taken at SIUE): 2.25
C or higher in Management 441 (University Senior Assignment)
C or higher in courses marked with * in Degree Requirements section.
Present research projects from ECON 415 or ECON 417 or FIN 430 to the faculty.

Computer Management and Information Systems

Founders Hall, Room 2310
siue.edu/business

Program Description
The bachelor of science in computer management and information systems prepares students for entry into a professional career in business computing. The program is designed to provide students with skills in business systems analysis and design, business systems implementation, database design...
and implementation, and communications systems design. Students also obtain a breadth of knowledge in the business disciplines, including accounting, economics, finance, management, and marketing. This combination of education in the computing discipline and the business disciplines is widely sought by employers today.

**Career Opportunities**
The demand for graduates with an undergraduate degree in computer management and information systems has risen consistently and continues to rise. Recent studies of projected occupational demand for graduates indicate that the computing and information systems field is one of the fastest-growing in business and service organizations. Positions in great demand include systems analyst, programmer/analyst, network administrator, database designer, information systems project manager, systems consultant, and training specialist. Positions of emerging importance include telecommunications analyst, Internet specialist, and help-desk consultant. Employers of information systems graduates include corporations, consulting companies, contract software development companies, small businesses, and government organizations.

**Degree Program**
Bachelor of Science, Computer Management and Information Systems

**Program Overview and General Department Information**

**Admission and Application Process**
Before applying to the program, students are encouraged to consult with an advisor in the School of Business Student Services Office to discuss the application process and plan a program of study.

To be admitted to the Bachelor of Science in Computer Management and Information Systems (CMIS) program, students must:

- Complete all Academic Development courses required by the University;
- Complete any courses required to address high school deficiencies;
- Apply for admission and be accepted into the School of Business. Students who are not accepted into a program will not be allowed to enroll in 300- or 400-level business courses and will not be eligible to declare a major in CMIS.

**Prerequisite courses required for the School of Business:**
- ENG 101 and 102
- ACS 101
- CMIS 108
- ECON 111 and 112
- MATH 120
- ACCT 200
- MS 250 (students may substitute MATH 150 for both MATH 120 and MS 250)

- Minimum prerequisite grade point average of 2.25 on a 4.0 scale

**Application Deadlines**
- Summer Term and Fall Semester: March 1
- Spring Semester: October 1

**Review of Applications**
The Undergraduate Admissions Committee of the School of Business will review all applications and students will be notified of their status within 45 days of the application deadline of the term for which they are seeking admission. An application to the School of Business is ready to be reviewed when all of the following criteria are met:

- Admission to SIUE.
- Submission of a completed undergraduate program application received by the School of Business Student Services Office by the stated deadline. Applications are available from the School of Business Web site, siue.edu/business, or in Business Student Services, on the third floor of Founders Hall. Applicants also must ensure that all transcripts from all community colleges and four-year institutions have arrived at the Service Center, Registrar’s Office, Box 1080, Edwardsville, IL 62026-1080 by the application deadline. Early completion of the application file is strongly encouraged.
- Sophomore status (30 hours earned).
- Successful completion (grade of C or higher) of any seven of the nine prerequisite courses.

(Note: Students who apply for summer admission must have all 9 prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all 9 prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all 9 prerequisite courses completed by the end of the preceding fall semester).
minimum cumulative grade point average of 2.25 on a 4.0 scale

Admission
The admission decision will be based primarily on the student’s performance in collegiate-level work and the required essay submitted as part of the admission application. Other factors that may be considered in the admission decision include, but are not limited to, courses taken, pattern and trend of grades, institutions attended, and co-curricular activities, as well as career- or work-related experience. The School of Business intends to admit students who demonstrate the greatest likelihood of academic success while also ensuring the diversity of the student body.

Admission to School of Business programs is competitive, and not all students who apply to the School of Business will be admitted. Since the number of students being admitted depends on the capacity of the school, applicants cannot be guaranteed admission to the School of Business based solely on a required minimum grade point average.

Transfer Students
The application process described above must be followed. Transfer students may contact the School of Business Student Services Office with questions regarding transferability and equivalency of business coursework completed at other institutions. The School of Business accepts lower-division courses taken at other institutions only as lower-division (100- and 200-level) courses.

Students who already hold a Bachelor’s Degree
Students who already hold a bachelor’s degree (“Seniors with Degree”) are not required to submit a separate application to the School of Business; rather, they should meet with an academic advisor in the School of Business Student Services office after they have been admitted to SIUE for program advisement and planning.

Declaration of Major
Once students are admitted to the School of Business, they may declare a CMIS major if they have earned at least a 2.25 or higher cumulative grade point average. Students not declared to the CMIS major may not enroll in 300- or 400-level CMIS core courses.

Retention
Students must achieve and remain in good standing to be retained in the Computer Management and Information Systems program. Good standing means a student has a minimum grade point average of 2.25 cumulative, 2.5 in CMIS courses and 2.25 in required business courses. Students who fail to maintain at least a 2.25 cumulative grade point average at SIUE will be placed on program probation. Students will be notified when they are not meeting the cumulative grade point average retention standard and will be informed of the timeframe allowed to improve their grade point average. Students who do not meet retention requirements for two consecutive terms will be separated from the CMIS major. Students whose cumulative grade point average is below 2.25 will be removed from the School of Business. Students remaining below a 2.5 CMIS grade point average for two terms may be dropped from the CMIS program.

Degree Requirements

Lincoln Program General Education Requirements

* Courses that require a grade of C or higher.

Foundation Courses (5 required)
ENG 101* ENG 102* ACS 101* RA 101 QR 101

Breadth Courses (6 required)
ECON 111* (meets Breadth Social Science (BSS), major requirement)
Breadth Humanities (BHU) Course
Breadth Fine and Performing Arts (BFPA) Course
Math 120* (meets Breadth Physical Science (BPS), major requirement)
Breadth Life Sciences (BLS) Course
CMIS 108* (meets Breadth Information and Communication in Society (BICS) Course, major requirement)

Experiences Requirements
New Freshman Seminar (CMIS 108 recommended or students can choose from the approved courses)
Laboratory Experience (MS 251, major requirement, will meet on EL science requirement)
Global Cultures Experience (met by IS 401, major requirement)
U.S. Cultures Experience
Health Experience

Additional General Education Requirements
Interdisciplinary Studies (met by IS 401, major requirement)

Bachelor of Science Requirements
To complete a Bachelor of Science degree at SIUE, students must have a total of at least eight (8) courses in the sciences (life, physical or social), including, as part of those eight courses, two (2) courses designated as labs (EL). The courses listed below are included as a part of the required courses for the major or as a part of the Breadth Area requirements.

1. Social, Physical, or Life Science Course (Students must choose a course with a lab, EL, to fulfill this requirement)
2. Social, Physical, or Life Science Course (Students will choose from the approved courses)
3. ECON 111* (Required for all business majors, also used for Breadth Area Course, see above)
4. ECON 112* (Required for all business majors, see above)
5. MATH 120* (Required for all business majors, also used for Breadth Area Course, see above)
6. MS 250* (Required for all business majors, see below)
7. MS 251* (Required for all business majors, see below, also meets one EL course requirement)
8. Breadth Life Science Course (See Breadth Area Requirements above)

Students should consult with an academic advisor to ensure proper completion of general education requirements.

**CMIS Major Requirements**

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<th>Credits</th>
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<td>ACCT 210*</td>
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<tr>
<td>CMIS 130*</td>
<td>4</td>
</tr>
<tr>
<td>CMIS 310*</td>
<td>3</td>
</tr>
<tr>
<td>CMIS 468*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 111*</td>
<td>3</td>
</tr>
<tr>
<td>GBA 301</td>
<td>3</td>
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**Total**

| Total                                           | 15      |

**Year 1**

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<tbody>
<tr>
<td>ENG 101 – English Composition I*</td>
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<tr>
<td>ECON 112 – Microeconomics*</td>
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</tr>
<tr>
<td>MATH 120 – College Algebra (BPS)**</td>
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<tr>
<td>RA 101 or PHIL 213</td>
<td>3</td>
</tr>
<tr>
<td>ACS 101 – Public Speaking*</td>
<td>3</td>
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**Total**

| Total                                           | 15      |

**Year 2**

<table>
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<tr>
<th>Course</th>
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<tbody>
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<td>ACCT 200 – Fundamentals of Financial Accounting*</td>
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</tr>
<tr>
<td>CMIS 130 – Introduction to Programming Logic*</td>
<td>3</td>
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<tr>
<td>Breadth Humanities (BHUM)</td>
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<tr>
<td>Breadth Life Science (BLS)</td>
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<tr>
<td>Quantitative Reasoning 101 or MATH 150 or Higher</td>
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**Total**

| Total                                           | 16      |

**Year 3**

<table>
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<th>Course</th>
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<td>CMIS 310 – Information Technology Hardware &amp; System Software</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 210 – Managerial Accounting*</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 330 – Understanding the Business Environment</td>
<td>3</td>
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<tr>
<td>MGMT 331 – Managing Group Projects</td>
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<tr>
<td>GBA 301 - Business Transitions I</td>
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<td>Life (LS), Physical (PS) or Social Science (SS)</td>
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**Total**

| Total                                           | 16      |

**Year 4**

<table>
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<tr>
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<td>CMIS 468 – Business Telecommunications</td>
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<td>Computing Elective#</td>
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<td>Experience U.S. Cultures Requirement (EUSC)</td>
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<td>Health Experience (EH)</td>
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**Total**

| Total                                           | 15      |

**Spring Semester**

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<td>MS 250**</td>
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<td>MGMT 331</td>
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**Year 1**

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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMIS 108* or CS 108 – Computer Concepts (BICS)*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 111 – Macroeconomics (BSS)*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 – English Composition II*</td>
<td>3</td>
</tr>
<tr>
<td>MS 250 – Mathematical Methods**</td>
<td>3</td>
</tr>
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</table>

**Total**

| Total                                           | 12      |

**Year 2**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CMIS 232 – Microsoft IDE Programming for Business or CMIS 234 - Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CMIS 270 – Structured Systems Analysis*</td>
<td>3</td>
</tr>
<tr>
<td>MS 251 – Statistical Analysis for Business Decisions* (EL)</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Life (LS), Physical (PS) or Social Science (SS)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**

| Total                                           | 15      |

**Year 3**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMIS 450 – Database Design</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 300 – Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>PROD 315 – Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 320 – Financial Mgmt &amp; Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>Breath Fine &amp; Performing Arts (BFPA)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**

| Total                                           | 15      |

**Year 4**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMIS 470 – Structured System Designs* ++</td>
<td>3</td>
</tr>
<tr>
<td>Computing Elective#</td>
<td>3</td>
</tr>
<tr>
<td>IS 401 – Business and Society (EGC)</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 441 – Strategic Management*</td>
<td>3</td>
</tr>
<tr>
<td>GBA 402 - Business Transitions II</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**

| Total                                           | 15      |

---

**Sample Curriculum for the Bachelor of Science in Computer Management and Information Systems**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENG 101 – English Composition I*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 112 – Microeconomics*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 120 – College Algebra (BPS)**</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>RA 101 or PHIL 213</td>
<td>3</td>
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<tr>
<td></td>
<td>ACS 101 – Public Speaking*</td>
<td>3</td>
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<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ACCT 200 – Fundamentals of Financial Accounting*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMIS 130 – Introduction to Programming Logic*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CMIS 310 – Information Technology Hardware &amp; System Software</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 210 – Managerial Accounting*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 330 – Understanding the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MGMT 331 – Managing Group Projects</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GBA 301 - Business Transitions I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CMIS 342 – Information Systems for Business</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CMIS 468 – Business Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

*Courses that require a grade of C or better
^Students may substitute MATH 150 (with a grade of C or higher) for both MATH 120 & MS 250.

Students planning to work at companies that operate information systems in COBOL are encouraged to take CMIS 260.

---

**Courses that require a grade of C or better**

**Students may substitute MATH 150 (with a grade of C or higher) for both MATH 120 & MS 250.**

---

**Total**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Year 1</td>
</tr>
<tr>
<td>Year 2</td>
<td>Year 2</td>
</tr>
<tr>
<td>Year 3</td>
<td>Year 3</td>
</tr>
<tr>
<td>Year 4</td>
<td>Year 4</td>
</tr>
</tbody>
</table>
Graduation Requirements
Cumulative SIUE grade point average required: 2.25
CMIS grade point average required (in required CMIS courses taken at SIUE): 2.5
Business grade point average required (in required business courses taken at SIUE): 2.25
C or higher in Management 441 (University Senior Assignment)
C or higher in courses marked with * in course Degree Requirements section

Air Force Reserve Officer Training Corps (ROTC)

Aerospace Studies
The Air Force Reserve Officer Training Corps (Air Force ROTC) provides you the opportunity to become a United States Air Force officer while completing your college degree. The program, combining traditional undergraduate education with military instruction, will prepare you to tackle the leadership challenges awaiting the Air Force in the years ahead. In-college scholarships are offered to highly qualified students. To learn more about Air Force ROTC, visit afrotc.com or call (314) 977-8227.

Army ROTC – Military Science

Adjunct Faculty
Flores, T.; Porch, M.; Phillips, J.; Reed, S. (LTC, U.S. Army); Upperman, M.

Military Science
The purpose of military science and Army ROTC is to commission the future officer leadership of the U.S. Army. Those who successfully complete the Reserve Officers’ Training Corps program normally earn commissions as lieutenants in the United States Army and go on to serve in either the Active Army, Army Reserve or Army National Guard.

Army ROTC
ROTC may be completed in several different ways as outlined below.

Four-Year Option
Military science is traditionally offered as a four-year option. It is best to start as a freshman, but special arrangements can be made for those who start as sophomores. The first two years of military science are voluntary (without service obligation) and designed to give students a perspective on their leadership ability and what the Army can offer them. Students who decide to continue in ROTC and pursue a commission sign an agreement with the Department of the Army to accept a commission upon completion of the last two years of military science. In return, the Army agrees to provide a subsistence allowance (up to $5,000 per year) and to provide all necessary uniforms.

Two-Year Option
This option is designed to provide greater flexibility in meeting the needs of students desiring commissions in the U.S. Army. SIUE students who do not participate in the four-year option or are community college transfer students are eligible for enrollment. Basic prerequisites for entering the two-year option are:
- good academic standing (minimum 2.0 GPA) and passage of an Army medical examination.
- two academic years of study remaining (undergraduate or graduate). If students are undergraduates, they must have junior status or at least 54 credit hours.

Simultaneous Membership
Students who qualify for the simultaneous membership program (members of the Army Reserve or National Guard) can complete the military science program in two years and earn up to $17,000 more at the same time. Upon graduation, a student may request to stay in the reserve component or select active duty.

Veterans
Veterans of any of the armed forces who are academically aligned may qualify for advanced placement and should contact the Military Science Department for details.

ROTC Scholarships
The Army Reserve Officers’ Training Corps has several scholarship options that pay tuition, fees, and books, and provide up to $500 monthly stipend for the academic year. These scholarships cover periods of four years, three years, and in some circumstances, two years.
High school juniors and seniors should apply for the 4-year scholarships no later than November of their senior year. Applications are available at armyrotc.com. SIUE freshmen should apply in January for the three-year scholarship. Special consideration for scholarships is given to students in engineering, nursing, business, or physical sciences. Scholarship students normally incur a four-year active duty obligation. They may request reserve duty to serve with the Army National Guard or Army Reserve, or may initially compete for scholarships that guarantee Army Reserve or Army Guard duty.

In addition, 40 Illinois State Army ROTC scholarships are available annually. These scholarships pay for tuition on a semester basis and are renewable. Please contact the Military Science Department for more details.

Qualifications
All students who desire to enter the Army Reserve Officers’ Training Corps must be United States citizens, be in good physical condition, and have high moral character. Students must be at least 17 years old to enroll and not over 34 when they receive their commission.

Additional qualifications to be admitted into the advanced course include an academic average of C or better and passage of an Army medical examination.

Academic Preparation
The SIUE Army Reserve Officers’ Training Corps academic preparation consists of three parts:

- earning a degree in the student’s chosen field of academic study/major; and
- completing 22 semester hours (four-year option) or 12 semester hours (two-year option) of the military science curriculum; and
- completing professional military education requirements. The courses in military science are university-level academic courses. The curriculum consists of classroom instruction and a leadership laboratory in which students receive practical leadership experience.

Leadership Laboratory
Leadership laboratory is required of all students enrolled in military science classes.

Laboratories are held two hours each week unless otherwise designated. In addition, students attend one mandatory off-campus field training exercise each semester, usually on a weekend.

Leadership laboratory develops individual military skills and leadership ability through participation in small unit tactics, survival training, rappelling, and responsibilities within the Cadet Corps organization.

Extracurricular Activities
Sponsored by Army ROTC
Army ROTC students are encouraged to participate in a wide variety of extracurricular activities. These activities include the Ranger Challenge Team, Marksmanship Team, Tactics Club (war-gaming), Color Guard, Cadet Club and intramural sports. Students not enrolled in ROTC may participate in these activities with the permission of the professor of military science.

Graduate Study
The Army recognizes the importance of a graduate degree for its personnel. Several programs are available to help ROTC graduates obtain an advanced degree. The Army sends selected second lieutenants immediately to graduate school (with full pay and allowances) to pursue advanced degrees in select disciplines. Other officers may request postponement of active duty for two years to continue graduate study; or be awarded guaranteed graduate schooling at a later time in their military service. Students who are accepted into medical school may take up to four years to complete their studies. Numerous opportunities exist for an officer to complete a master’s degree in service and receive financial assistance from the Army. Educational assistance opportunities in the Army Guard and Army Reserve vary by state.

Select graduate students at SIUE also are eligible for enrollment in the ROTC two-year program.
SCHOOL OF EDUCATION, HEALTH AND HUMAN BEHAVIOR

Paul Rose, PhD
Interim Dean and Professor
The School of Education, Health and Human Behavior offers undergraduate programs in professional education, psychology, exercise science, public health, nutrition, and speech-language pathology and audiology. Professional education programs prepare students for teaching positions in early childhood education, elementary education, secondary education (6-12 and K-12), and special education. SIUE’s teacher education programs prepare persons for various teaching fields through a blend of coursework, field experiences, and student teaching. Teacher education programs at SIUE are partnership based in public schools in the St. Louis Metro East area of southwestern Illinois. Because of SIUE’s commitment to diversity in its broadest sense, partnership schools include those in diverse communities as well as those identified as hard-to-staff.

The award-winning Department of Psychology offers a comprehensive major that prepares students for a wide variety of careers and graduate programs. Licensure in speech-language pathology occurs at the graduate level. The Department of Applied Health offers options for students interested in exercise science, nutrition, public health and speech-language pathology. Speech-language pathology and audiology majors pursue a program of study for the purpose of helping people who have communication disorders. Through any of the undergraduate programs, students may become qualified to enter graduate studies at SIUE or another university.

The School of Education, Health and Human Behavior is accredited through the National Council for the Accreditation of Teacher Education (NCATE). All teacher education programs are recognized nationally through NCATE and content area specialized professional associations. The teacher-preparation programs are also approved by the Illinois State Board of Education (ISBE). Additional programs within the school are accredited by appropriate professional organizations.

Admission and Advisement
Procedures vary for admission to different programs in the School of Education, Health and Human Behavior. Therefore, students should consult an appropriate academic advisor for specific information.

Students interested in teacher education may contact the School of Education, Health and Human Behavior’s Student Services. Admission to the University or to a degree program in an academic department does not necessarily constitute acceptance into a teacher licensure program. Teacher education students must be officially admitted to a teacher education major to secure a student teaching assignment, complete all teacher education requirements, and qualify for a teaching license. For admission into any program in teacher education, a student must present a cumulative grade point average of at least 2.5, must receive a grade of C or better in English 101 and 102, meet other program specific admission requirements, and pass the required state-approved test of basic skills. Students apply to teacher education programs in the School of Education, Health and Human Behavior’s Student Services office in the semester prior to their first semester in their chosen program. Attaining the minimum criteria does not guarantee admission and program-specific criteria may change based, in part, on resources, capacity and the size of an applicant pool.

Degrees
The School of Education, Health and Human Behavior grants the bachelor of science degree with majors in early childhood education, elementary education, and special education. The bachelor of arts and bachelor of science degrees with majors in psychology, exercise science, nutrition, public health, and speech-language pathology and audiology also are offered.

Teaching Licensure
Upon successful completion of a teacher education program and passing the required state-approved test of basic skills (one of the admission requirements for teacher education), the appropriate content test/s (required for the student teaching placement), the edTPA and other applicable tests, students qualify for a teaching license in the State of Illinois and may apply for teaching licensure in other states. Students seeking degrees in other majors may qualify for a 6-12 secondary or a K-12 special licensure by completing an approved
program in teacher education. Speech-language pathology majors who wish to pursue licensure must first obtain a master’s degree. The following undergraduate teacher education programs are available:

- Early Childhood Education
- Elementary Education
- Special Education
- Art Education
- Biology Education
- Chemistry Education
- Earth and Space Science Education
- English Education
- Foreign Language (French, German, Spanish) Education
- Political Science Education
- Geography Education
- History Education
- Mathematics Education
- Music Education
- Theater Arts Education

The State of Illinois does not allow grades lower than C in any professional education, endorsement, or specified general education courses to count towards licensure.

Please note that the State of Illinois is in the process of making significant changes in teacher education that may result in revised standards, programs, testing requirements, and teaching licenses. It is very important that all prospective and current candidates work closely with their advisors to remain current about course and curriculum changes affecting progress through the programs.

Criminal Background Checks
Prior to any field placements, candidates must pass a criminal background check and be free of any offenses which would prohibit one from receiving licensure from the Illinois State Board of Education. Illinois law requires Illinois school boards to conduct a criminal background investigation on applicants for employment. This law prohibits the employment of any person who has been convicted of committing or attempting to commit any one or more of a number of offenses. At present, offenses include, but are not limited to, first degree murder, any Class X felony; juvenile pimping, soliciting for a juvenile prostitute; exploitation of a child; obscenity; child pornography; harmful material; criminal sexual assault; aggravated criminal sexual assault; criminal sexual abuse; aggravated criminal sexual abuse; offenses set forth in the Cannabis Control Act; and crimes defined in the Illinois Controlled Substances Act. Employment must be denied whether the offenses and/or conviction occurred inside or outside Illinois.

Pre-Student Teaching Clinical Experiences
Pre-student teaching clinical experience is required in the area for which a student seeks licensure. This experience, which must be completed and documented prior to student teaching, is arranged through the School of Education, Health and Human Behavior Student Services. Before being placed, candidates must pass the criminal background check and complete Illinois requirements for safety education. There may also be additional district requirements. The School of Education, Health and Human Behavior Student Services will notify candidates of these requirements.

Student Teaching
Student teaching is the culminating experience in professional teacher education programs. It is required in order to meet the degree requirements of the School of Education, Health and Human Behavior, the licensure requirements of Illinois, and the standards of the National Council for Accreditation of Teacher Education (NCATE).

Student teaching requires full-day involvement in a public school. Accordingly, students should avoid taking other courses or employment during student teaching and should schedule it at a time when they will be free of other demands on their time and energy. Requests for course overload during student teaching must be approved by the director of the program and the associated department chair. Student teaching is not available during the summer term.

The student teaching application procedure begins during the year prior to the assignment. Students must pass the appropriate Illinois Licensure Testing System (ILTS) Content Test before they can begin their student teaching placement. Students must pass the edTPA assessment during the student teaching semester in order to earn teacher licensure in Illinois. In addition, each department that has a program leading to teacher licensure has established policies regarding the application for student teaching. Students should secure student teaching information from an advisor
in the appropriate department. Junior and senior transfer students should contact an advisor for application information during or before orientation. Student teaching application packets may be obtained from the School of Education, Health and Human Behavior Student Services. Students should check with that office for application deadline dates.

The School of Education, Health and Human Behavior maintains the responsibility for student teaching assignments. Most pre-student teaching clinical assignments and student teaching placements are identified partner schools and school districts within 40 miles of the university. Pre-student teaching clinical experiences and student teaching will provide teacher candidates with a breadth of experiences in diverse settings.

The SIUE School of Education, Health and Human Behavior shall determine the start and end dates for all student teaching assignments. Students who are student teaching in the fall semester are expected to attend all start of the school year district and school meetings/workshops with their cooperating teachers prior to the start of the first day of student attendance. Students who are student teaching in the spring semester are expected to begin their student teaching experience on the first day of student attendance after the winter break of their host school. The student teaching experience will end the week prior to finals. Students wishing to continue in their host classroom during or after finals week should consult with the cooperating teacher and SIUE supervisor. During the SIUE student teaching semester, all SIUE student teachers must adhere to the school calendar (i.e. vacations, school holidays, etc.) of the school to which the student has been assigned to student teach by the SIUE School of Education, Health and Human Behavior.

Following are additional prerequisites for registering for, and receiving an assignment for, student teaching:

- All teacher candidates, regardless of teaching field or academic major, must be admitted to and follow an approved teacher education program. Students must, therefore, consult with an School of Education, Health and Human Behavior advisor to make certain they are meeting requirements of an approved program well in advance of student teaching.

- Student teaching assignments are made after admission to the School of Education, Health and Human Behavior and the completion of at least 96 credit hours. Students must have a minimum cumulative grade point average of 2.5 in advance of the student teaching assignment. Transfer students must be in residence for one semester prior to beginning student teaching.

- Students must have a 2.5 grade point average or higher in professional education coursework. No grade lower than a C is acceptable in professional education, endorsement or specified general education courses.

- Students must have completed all required major and professional education courses, as well as all pre-student-teaching clinical experiences.

- A report of a tuberculosis skin test or X-ray taken within 90 days before the student teaching assignment may be required under certain circumstances.

- Student teachers must also acknowledge their role as DCFS-Mandated Reporters.

In addition to the above stated student requirements, the following policies guide all pre-student teaching and student teaching placement processes. Students are responsible for disclosing this information to the School of Education, Health and Human Behavior Student Services Office at the time of their application to the various field experience or student teaching semester.

- Students may not be placed in a school from which they attended, regardless of the date of last attendance.

- Students may not be placed in a school in which a close relative is currently employed or attending. Additionally, students may not be placed in a school where a potential conflict of interest might exist.

- The School of Education, Health and Human Behavior Student Services will work with the program faculty in locating suitable cooperating teachers. Good faith efforts are made to ensure that candidates in field experiences or student teaching are provided with experiences that include:

- Male and female P-12 students from different socioeconomic groups and at least two ethnic/racial groups as reported in the U.S. Census

- English language learners
Students who have disabilities

SIUE Denial of Recommendation for Teacher Licensure Grievance Policy

In compliance with the Illinois School Code (105 ILCS 5/21-21.1), no SIUE student shall be denied the opportunity to receive the institutional recommendation for teacher licensure for reasons which are not directly related to the candidate’s anticipated performance as a licensed employee. Any SIUE candidate who has completed a teacher education program and who is denied teacher licensure shall be afforded a means for grieving the denial by the following procedure.

- Within 10 days of the denial, SIUE shall notify the candidate, in writing, of the reasons for the denial of recommendation for licensure.
- Within 30 days of notification of the denial, the candidate may request that SIUE review the denial. This request shall be in writing and should be directed to the SIUE Licensure Officer.
- After an additional 30 days to complete the review, the candidate shall be notified in writing of the decision to uphold or change the denial.
- Within 10 days of notification, the candidate may appeal SIUE’s decision to the Illinois State Teacher Licensure Board.

This SIUE grievance procedure applies only to denial of licensure for candidates within the approved School of Education, Health and Human Behavior teacher licensure programs. All other grievances should proceed through the SIUE Student Grievance Code. SIUE’s current Student Grievance Code provides all students with a grievance procedure as a means for students to grieve faculty and staff members for violations of their student rights as set forth in the Student Grievance Code.

Appeal Process

Students wishing to appeal a pre-student teaching and/or student teaching placement decision are expected to follow the steps outlined below, in accordance with University policy:

Informal Resolution

Students should first contact the School of Education, Health and Human Behavior Student Services Director to obtain clarification on the placement decision. Many misunderstandings may be resolved during this informal process.

If not resolved, the student has the option to file a written note of complaint to the School of Education, Health and Human Behavior Student Services Director. This informal appeal must be provided within 10 school days of the informal face-to-face meeting with the Director, described in step 1 above. The School of Education, Health and Human Behavior Student Services Director will consult with the appropriate departmental faculty, supervisors, and/or P-12 school personnel to make a final recommendation about the placement. This decision will be made within 10 school days of receipt of the student’s written complaint.

Formal Resolution

SIUE Student Grievance Code: Students have the right to formally appeal the decision rendered after pursuing the above steps by following the Student Grievance Code as outlined in the Student Rights and Conduct (siue.edu/policies/3c3.shtml).

General Education Waiver

Undergraduate programs leading to initial licensure of early childhood education, elementary education, special education, and mathematics education have agreed to accept an associate’s degree (associate of arts, associate of science, associate of science and arts, and associate of arts in teaching) from an approved community college in accordance with SIUE’s general waiver policy (please refer to SIUE catalog for current policy). Early childhood, special education, and secondary mathematics education programs will accept that general education requirements have been met with the completion of any of the degrees specified above. However, it must be noted that the candidate cannot be licensed in Illinois unless all professional education courses and courses required by the major are earned with a grade of C or better. Students receiving a general education waiver must complete all university requirements for graduation. Please see graduation requirements for more information.

Teaching and Learning

Founders Hall, Room 1133
siue.edu/education/ci

Professors
Breck, Susan E., Ph.D., 1994,
University of Kansas
Licensure

The Department of Teaching and Learning offers programs leading to a Bachelor of Science degree in Education. These programs fulfill requirements for initial licensure in the State of Illinois to teach at the early childhood, elementary, middle level, special education and secondary levels. The Illinois initial early childhood teaching program leads to licensure for teaching children from birth through grade 2. The initial elementary teaching program leads to licensure for teaching grades 1-6 (self-contained classrooms). Middle level initial program leads to licensure for teaching grades 6-8 (content specific classrooms). The initial secondary teaching program provides licensure for teaching grades 6-12 or K-12. The special education program offers Council for the Accreditation of Educator Preparation-approved programs at the undergraduate level for teaching licensure as a Learning Behavior Specialist grades K-12 (LBS I).

Please Note:
- The State of Illinois is in the process of making significant changes in teacher education that may result in revised standards, programs, testing requirements, and teaching certificates. It is very important that all prospective and current candidates work closely with their advisors to remain current about course and curriculum changes affecting progress through the programs.
- It is expected that all teacher candidates demonstrate appropriate professional dispositions and maintain satisfactory academic progress in the program. Failure to do so can lead to dismissal from the program.

Diversity Statement

SIUE’s Teacher Education programs foster teacher candidates’ ability to understand and meet professional responsibilities by modeling respect and value for diversity. Candidates create and engage their students in practices that develop awareness, understanding, respect, and a valuing of the forms of diversity that exist in society and their importance in learning and teaching. The School of Education, Health and Human Behavior teacher education programs are dedicated to supporting all teacher education candidates regardless of their economic or social status and advocates for the rights of students free from discrimination based on race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identification, ability or age.
Early Childhood Education

Program Overview

Early Childhood program at SIUE offers a full time undergraduate program that leads to initial teacher licensure in Illinois to work with children birth to second grade. The program also offers a non-licensure option to work in infant/toddler and preschool settings that do not require teacher licensure. Information for all programs and admission policies is available from the School of Education, Health and Human Behavior Student Services. All programs in early childhood address national standards set by the Council for the Accreditation of Educator Preparation and the National Association for the Education of Young Children, as well as state standards set by the Illinois State Board of Education.

Admission into the program is a two-step process. Students can declare the early childhood education major in their freshman year after successful completion of ENG 101 and all other declaration requirements. This will allow student to work with professional education advisors, but does not guarantee admission to the program which is governed by state regulations.

The early childhood education two-year undergraduate program is the only route to initial early childhood licensure for Birth through Grade 2 at SIUE. The early childhood education program has a limited enrollment policy regarding formal admission to the program. The number of students admitted will depend on the number of resources available; admission to the early childhood program may therefore be competitive. Because the number of qualified applicants may exceed program resources, meeting or surpassing the minimum eligibility criteria will not guarantee admission to the program. SIUE Presidential, Dean’s or Chancellor’s Scholars and recipients of Golden Apple Scholarships meeting minimum requirements will be given priority placement in the program. Students admitted to the program will be expected to begin the professional sequence the fall semester following admission. Students admitted to the program will be expected to begin the professional sequence the fall semester following admission. Students admitted to the program will be expected to begin the professional sequence the fall semester following admission.

In order to be admitted to a major in Early Childhood Education, it is necessary to have:

- A cumulative grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE.
- Completion of 42 semester hours or more of college-level course work.
- All foundations courses (ENG 101, 102, ACS 101, RA 101 and QR 101) must be completed with a “C” or higher.
- Completion of 42 semester hours or more of college-level course work.
- Completion of the self-reporting disposition survey on file with the School of Education, Health and Human Behavior.
- Students interested in licensure must pass all areas of the ILTS Test of Academic Proficiency (TAP), formerly the Basic Skills Test or equivalent test approved by the State of Illinois. Information about the test is available online.
Moving from Non-Licensure to Licensure:
Students admitted under a non-licensure option or who graduated without licensure may pursue initial teacher licensure in Illinois. To be eligible for licensure students must:

- Re-apply to an early childhood program with a licensure option
- Have graduated less than 5 years prior to the date of application for admission to a licensure program.
- Be in good academic standing at SIUE
- Have a combined GPA of 2.5 or higher of all post-secondary work
- Pass the ILTS Test of Academic Proficiency (formerly the Basic Skills Test) and all other applicable licensure tests
- Complete all applicable program and/or licensure requirements
- Successfully complete an appropriate student teaching experience

General Education and Degree Requirements
The program in early childhood education requires 120 hours of general education courses, health and physical development courses, and professional education courses. Transfer students may be required to complete additional hours in general education to meet licensure requirements. Students seeking licensure in early childhood education must meet SIUE general education requirements. Students are required to read the University catalog and to study the Teacher Education Handbook, available online through the SIUE Web site. Students should review it as soon as they identify an interest in the teaching profession. Then they should schedule an appointment with a School of Education, Health and Human Behavior advisor.
Sample Curriculum for the Bachelor of Science in Early Childhood Education

### Fall Semester

**Year 1**
- ENG 101 English Composition I ........................................ 3  
- MATH 112a Mathematics for Elementary Teachers (BPS) ........ 3  
- GEOG 111 Intro to Geography (BSS, EGC) ........................... 3  
- ACS 101 Public Speaking .................................................. 3  
- MUS 111, DANC 111 or THEA 111 (BFPA) ......................... 3  

Total ................................................................. 15  

**Year 2**
- ENG Literature (BHUM) ............................................... 3  
- HIS 200 or 201 United States History & Constitution  
  (BSS, EL, EUSC) .................................................. 3  
- SPE 290 Language Development ..................................... 3  
- PSYC 201 Child Development (BSS) .................................. 3  
- ECON 111/112 (BSS) .................................................. 3  

Total ................................................................. 15  

**Year 3**
- SPE 440 Infants & Toddlers w special needs & their families ... 3  
- CIED 316 Active Engagement with Infants & Toddlers .......... 3  
- CIED 317 Health, Nutrition, Safety, Physical Activity ........ 3  
- ART 450 Early Childhood Art Education  
  Interdisciplinary Studies (IS) ........................................ 3  
- CIED 330 EC Field Experience I ...................................... 3  

Total ................................................................. 15  

**Year 4**
- CIED 321 Primary Literacy Assessment and Instruction ........ 3  
- CIED 417 Assessment of Young Children  
  CIED 418 Teaching Mathematics in Early Childhood Ed. ...... 3  
- CIED 416 Inquiry, Investigation & Play in the Primary Grades 3  
- CIED 332 EC Field Experience II .................................... 3  

Total ................................................................. 16  

### Spring Semester

**Year 1**
- ENG 102 English Composition II ...................................... 3  
- MATH 112b Mathematics for Elementary Teacher (BPS) ....... 3  
- SCI 241a Foundations of Science (BLS, EL) ....................... 3  
- RA 101 Reasoning & Argumentation  
  IT 300 Digital Learning and Comm. for Educators (BICS) .... 3  
- QR 101 Reasoning and Argumentation  
  Total ............................................................................ 18  

**Year 2**
- ECON 111/112  
  ES 400 The Exceptional Child  
  (BPS, EL) .................................................. 3  
- SCI 241B Foundations of Science (BPS, EL) ....................... 3  
- CIED 310 Planning for Diverse Learners  
  CIED 311 Differentiated Instruction ................................ 3  

Total ................................................................. 15  

**Year 3**
- SPE 440 Infants & Toddlers w special needs & their families ... 3  
- CIED 316 Active Engagement with Infants & Toddlers .......... 3  
- CIED 317 Health, Nutrition, Safety, Physical Activity ........ 3  
- ART 450 Early Childhood Art Education  
  Interdisciplinary Studies (IS) ........................................ 3  
- CIED 330 EC Field Experience I ...................................... 3  

Total ................................................................. 15  

**Year 4**
- CIED 458 Early Childhood Student Teaching .................... 5  
- CIED 459 Elementary Student Teaching  
  CIED 457 Professionalism, Ethics, and Advocacy in  
  Early Childhood .................................................. 2  

Total ................................................................. 12  

**Non-Licensure**
- CI 490A Independent Projects: Curriculum ...................... 5  
- CI 490G Independent Projects: Early Childhood ............... 5  
- CIED 457 Professionalism, Ethics, and Advocacy in  
  Early Childhood Education ........................................ 2  

Total ................................................................. 12

### Graduation Requirements (Subject to change due to changes at ISBE):
- A grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE;
- Completion of all specific program requirements (completion of all CIED courses with a C or better)
- Completion of all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
- At least 30 of which must be completed at SIUE
- At least 60 of which must be completed at a regionally accredited 4-year institution
- Completion of all foundations courses (or approved equivalents) with a C or better
- ENG 101, 102, RA 101, QR 101, IT 300
- Passing score on required early childhood Content Area Test (Licensure only)
- Application filed for Graduation by the first day of the term in which you plan to graduate
Elementary Education

The Elementary Education Program is a collaborative agreement between SIUE and public school districts whereby classroom teachers, university professors, and faculty supervisors work together to provide elementary education majors a unique opportunity to regularly interact with 1-6 students. This program addresses both the national standards set by the Council for the Accreditation of Educator Preparation and state standards set by the Illinois State Board of Education.

Admission into the program is a two-step process. Students in good academic standing with the university who have completed all required developmental level coursework can declare the elementary education major in their freshman year after successful completion of ENG 101 and CIED 100 and have a cumulative GPA of 2.5 or higher. This will allow students to work with professional education advisors, but does not guarantee admission to the program which is governed by state regulations.

The elementary education two-year undergraduate program is the only route to initial elementary licensure for grades 1-6 (self-contained classrooms) at SIUE. The elementary education program has a limited enrollment policy regarding formal admission to the program. The number of students admitted will depend on the resources available; admission to the elementary partnership program may therefore be competitive. Because the number of qualified applicants may exceed program resources, meeting or surpassing the minimum eligibility criteria will not guarantee admission to the program. SIUE Presidential or Chancellor’s Scholars and recipients of Golden Apple scholarships meeting minimum requirements will be given priority placement in the program. Students will be admitted only once a year, prior to each fall semester. Students admitted to the program will be expected to begin the professional sequence the fall semester following admission. Students may submit a program application before meeting eligibility requirements if they are in the process of completing the requirements. For admission requirements, please carefully read the appropriate program information sheet and the admission policy handout available from the School of Education, Health and Human Behavior Student Services. Applications must be turned in to School of Education, Health and Human Behavior Student Services by March 1 for the following fall semester. Applications will continue to be accepted until capacity has been reached. Applicants should verify their GPA and/or scores that School of Education, Health and Human Behavior Student Services advisors submit to the faculty for admission selection. Applications for the elementary program are available at or before the beginning of every spring semester. Notification of admission status is sent to applicants by June prior to the program beginning the following fall semester. Meeting minimum eligibility requirements does not guarantee admission to the program.

Declaration and Admission to the Elementary Education Program

To declare a major in Elementary Education, it is necessary to have:

- Completed any required Academic Development and high school deficiency courses;
- Received a grade of C or better in ENG 101 and CIED 100 (or equivalent course)
- A cumulative grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE

High school students with a strong academic record may apply for direct declaration to the Department of Teaching and Learning in the early childhood, elementary, or secondary programs. Students must have earned at least a 27 ACT or 1210 SAT and at least a 3.75 high school grade point average or rank in the top 10% of their high school graduation classes to be eligible for direct admission to the programs.

In order to be admitted to a major in Elementary Education, it is necessary to have:

- Declared as an Elementary Education Major
- All foundations courses must be completed with a C or higher. (Foundations courses are: ENG 101, ENG 102, ACS 101, RA 101 and QR 101).
- Received a grade of C or better in ENG 102, MATH 120
- A cumulative grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE
- Completion of 42 semester hours or more of college-level course work
- Completion of the self-reporting disposition survey on file with the School of Education, Health and Human Behavior
- Passed all areas of the ILTS Test of Academic
Proficiency (TAP), formerly the Basic Skills Test or equivalent test approved by the State of Illinois. Information about the test is available online at http://www.il.nesinc.com. You must have a copy of your test scores when you declare your major. (Students now have the option to use their ACT or SAT score in lieu of taking the Test of Academic Proficiency (TAP). Please contact the School of Education, Health and Human Behavior Student Services office for more information on using the ACT score for admissions requirements. The ILTS Test of Academic Proficiency is given only at scheduled times. Students should consult School of Education, Health and Human Behavior Student Services for test information.

- Completed an application for admission to the Elementary Education program. This application along with transcripts of all coursework should be submitted by March 1 for fall admission. Please submit to:
  School of Education, Health and Human Behavior Student Services
  Southern Illinois University
  Edwardsville
  Edwardsville, IL 62026-1062

Retention
To remain in the elementary education program, the student must maintain a cumulative grade point average of 2.5 and earn a grade of C or better in all Curriculum and Instruction in Education (CIED) courses, and professional education courses (MATH 112A, MATH 112B, SPE 400, SCI 241A, SCI 241B, IT 300, PSYC 201 and KIN 330 -or equivalent course). Professional dispositions are also monitored. Failure to demonstrate appropriate dispositions can lead to dismissal from the program. Normally, a student also must receive a satisfactory recommendation from the cooperating teacher and University instructor in field placement courses. In order to advance to student teaching (CIED 451), Illinois law requires teacher candidates to have obtained a passing score on the required ILTS Elementary Content Area Test (197-200: Elementary Education - Grades 1-6) Information about the test is available online at http://www.il.nesinc.com. Students should consult the Program Director or School of Education, Human and Health Behavior Student Services for the deadline in which this score needs to be on file. If, during their second year in the program, students decide that they do not wish to pursue initial teacher licensure in Illinois, they may have the option to pursue a non-licensure degree. Students interested in this route should work with the Program Director and Student Services to determine graduation requirements. Students who elect this non-licensure degree may have the option to have an extended practicum experience in the place of student teaching. This option still requires completion of a senior assignment. Prior to any field placements, candidates must pass a criminal background check and be free of any offenses which would prohibit one from receiving licensure from the Illinois State Board of Education.

Transfer
Transfer students should contact an advisor in the School of Education, Health and Human Behavior Student Services as early as possible to discuss transfer procedures.

General Education and Degree Requirements
Graduation with a Bachelor of Science in elementary education requires completion of 120 credit hours, 60 of which must be earned from a four-year institution, with at least 30 taken at SIUE. Transfer students may be required to complete additional hours in general education to meet licensure and/or graduation requirements. Students seeking licensure in elementary education must meet SIUE general education requirements.

The senior assignment, a University requirement for graduation, is an integral part of the elementary education program. The Elementary Program has elected to use the edTPA to fulfill this requirement. Additional details are provided by program faculty.

Students entering the program are required to read the University catalog about this program. As soon as they identify an interest, they should talk to or schedule an appointment with a School of Education, Health and Human Behavior advisor (Founders Hall 1110, (618-650-3940) http://www.siue.edu/education/advisement/index.shtml).
**Sample Curriculum for the Bachelor of Science in Elementary Education**

### Fall Semester

#### Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 111 Introductory Music History/Literature (BFPA)</td>
<td>3</td>
</tr>
<tr>
<td>ART 111 Introduction to Art (BFPA)/DANC 111 The Dance Experience (BFPA)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 112a Math for Elementary Teachers: Number Sense and Algebra (BPS)</td>
<td>3</td>
</tr>
<tr>
<td>RA 101 Reasoning &amp; Argumentation</td>
<td>3</td>
</tr>
<tr>
<td>CIED 100 Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Note: During the first semester of course work, start a file in the School of Education Student Services. RA 101 Reasoning & Argumentation must be completed within the first 45 hours. Total

#### Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 120 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201 Child Psychology (BSS)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 200 U.S. History: Constitution to 1877 (BSS; EUSC)</td>
<td>3</td>
</tr>
<tr>
<td>ENG Literature (BHUM)</td>
<td>3</td>
</tr>
<tr>
<td>CIED 310 Planning for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

*Take ILTS Test of Academic Proficiency (TAP) or retake ACT if needed

#### Year 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 312 Language and Communication</td>
<td>3</td>
</tr>
<tr>
<td>CIED 441 Math Methods</td>
<td>3</td>
</tr>
<tr>
<td>CIED 302 Field Experience II</td>
<td>1</td>
</tr>
<tr>
<td>SPE 400 Exceptional Child</td>
<td>3</td>
</tr>
<tr>
<td>SCI 241a Foundations of Science I (BLS, EL)</td>
<td>3</td>
</tr>
<tr>
<td>KIN 330 Integrating Physical and Health Education into the K-8 Curriculum or approved substitution</td>
<td>2</td>
</tr>
<tr>
<td>Content Area Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

#### Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 322 Lit Comprehension and Composition</td>
<td>3</td>
</tr>
<tr>
<td>CIED 442 Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>CIED 314 Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>CIED 311 Planning for Differentiated Instruction</td>
<td>3</td>
</tr>
<tr>
<td>CIED 304 Field Experience IV</td>
<td>2</td>
</tr>
<tr>
<td>IS Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
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### Spring Semester

#### Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS 101 Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 112b Mathematics for Elementary Teacher (BPS)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 111 Foundations of Psychology (BSS)</td>
<td>3</td>
</tr>
<tr>
<td>QR 101 Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Elective (Breadth Area)</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 111 Intro to Geography (BSS, EGC)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201 U.S. History: 1877–Present (BSS)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 111 or ECON 112</td>
<td>3</td>
</tr>
<tr>
<td>HED 111 Weaving in Wellness (EH)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

*Pass Content Area Test Prior to Student Teaching

#### Year 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 313 Intro to Educ. Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CIED 321 Primary Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CIED 443 Social Studies Methods</td>
<td>3</td>
</tr>
<tr>
<td>CIED 303 Field Experience III</td>
<td>1</td>
</tr>
<tr>
<td>SCI 241b Foundations of Science II (BPS, EL)</td>
<td>3</td>
</tr>
<tr>
<td>IT 300 Digital Learning and Comm. for Educators (BICS)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 451 Student Teaching</td>
<td>10</td>
</tr>
<tr>
<td>CIED 452 Seminar (Professionalism &amp; Ethics)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

### Graduation Requirements

- A grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE;
- Completion of all specific program requirements (completion of all CIED courses with a C or better)
- Completion of all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
  - At least 30 of which must be completed at SIUE
  - At least 60 of which must be completed at a regionally accredited 4-year institution
  - Completion of all foundations courses (or approved equivalents) with a C or better
  - ENG 101, 102, ACS 101, RA 101, QR 101
  - Passing score on the ILTS Test of Academic Proficiency
Proficiency or approved equivalent.

- Passing score on required ILTS Elementary Content Area Test (197-200: Elementary Education - Grades 1-6) Information about the test is available online at http://www.il.nesinc.com
- All students must now complete and submit for review an edTPA portfolio. Additional details are provided by program faculty. Information about the test is available online at https://www.edtpa.com/PageView.aspx?f=GEN_Illinois.html
- Application filed for Graduation by the first day of the term in which you plan to graduate

Middle Level Education

The Middle Level Education Program is a collaborative agreement between SIUE and public school districts whereby classroom teachers, university professors, and faculty supervisors work together to provide Middle Level education majors a unique opportunity to regularly interact with 6-8 students. This program addresses both the national standards set by the Council for the Accreditation of Educator Preparation and Association of Middle Level Education, as well as the state standards set by the Illinois State Board of Education.

Admission into the program is a two-step process. Students can declare the Middle Level education major in their freshman year after successful completion of ENG 101 and CIED 100.

The Middle Level education two-year undergraduate program is the only route to initial Middle Level licensure for grades 6-8 at SIUE. The Middle Level Education Program has a limited enrollment policy regarding formal admission to the program. The number of students admitted will depend on the resources available; admission to the Middle Level partnership program may therefore be competitive. Because the number of qualified applicants may exceed program resources, meeting or surpassing the minimum eligibility criteria will not guarantee admission to the program. SIUE Presidential or Chancellor’s Scholars and recipients of Golden Apple scholarships meeting minimum requirements will be given priority placement in the program. Students will be admitted only once a year, prior to each fall semester. Students admitted to the program will be expected to begin the professional sequence the fall semester following admission. Students may submit a program application before meeting eligibility requirements if they are in the process of completing the requirements. For admission requirements, please carefully read the appropriate program information sheet and the admission policy handout available from the School of Education, Health and Human Behavior Student Services. Applications must be turned in to School of Education, Health and Human Behavior Student Services by the posted due date. Applicants should verify their GPA and/or scores that School of Education, Health and Human Behavior Student Services advisors submit to the faculty for admission selection. Applications for the Middle Level program are available at or before the beginning of every spring semester. Notification of admission status is mailed to applicants in June prior to the program beginning the following fall semester. Meeting minimum eligibility requirements does not guarantee admission to the program.

Declaration and Admission to the Middle Level Education Program

To declare a major in Middle Level Education, it is necessary to have:

- Completed any required Academic Development and high school deficiency courses;
- Received a grade of C or better in ENG 101 and CIED 100 (or equivalent course);
- A cumulative grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE.

High school students with a strong academic record may apply for direct declaration to the Department of Teaching and Learning in the early childhood, elementary, middle level, or secondary programs. Candidates must have earned at least a 27 ACT or 1210 SAT and at least a 3.75 high school grade point average or rank in the top 10% of their high school graduating classes to be eligible for direct declaration to the programs.

In order to be admitted to the Middle Level Education program candidates must have:

- declared Middle Level Education as a major;
- passed ENG 102, MATH 120, CIED 301, 310, and 311 with a C or better;
- a cumulative grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE;
completed 42 semester hours or more of college-level coursework, with at least 12 of those hours in the required content courses for the subject area in which licensure will be sought with a GPA of 2.75 or higher.

- completed the SIUE School of Education self-reporting disposition survey on file with the School of Education;
- Passed all areas of the ILTS Test of Academic Proficiency (TAP), formerly the Basic Skills Test or equivalent test approved by the State of Illinois. Information about the test is available online at http://www.il.nesinc.com. You must have a copy of your test scores when you declare your major. (Students now have the option to use their ACT or SAT score in lieu of taking the Test of Academic Proficiency (TAP). Please contact the School of Education, Health and Human Behavior Student Services office for more information on using the ACT score for admissions requirements.

The ILTS Test of Academic Proficiency is given only at scheduled times. Students should consult School of Education, Health and Human Behavior Student Services for test information.

Retention
To remain in the middle level education program, the teacher candidate must maintain a cumulative grade point average of at least 2.5 and earn a grade of C or better in all Curriculum and Instruction (CIED) and professional education courses (SPE 400, IT 300). Candidates must maintain at least a 2.75 GPA in all required content courses. Teacher candidates also must receive a satisfactory recommendation from the cooperating teachers and University instructors in field placement courses. Prior to any field placements, candidates must pass a criminal background check and be free of any offenses which would prohibit one from receiving certification from the Illinois State Board of Education.

Transfer
Transfer students should contact an advisor in the School of Education Student Services as early as possible to discuss transfer procedures.

General Education and Degree Requirements
The program in middle level education requires 121-125 hours of general education courses, content courses, and professional education courses. Transfer students may be required to complete additional hours in general education to meet certification requirements. Students seeking certification in middle level education must meet SIUE general education requirements.

The senior assignment, a University requirement, is an integral part of the middle level education program. Additional details are provided by program faculty and University supervisors.

Students are required to read the University catalog and to study the Teacher Education Handbook, available at the SIUE campus bookstore. The Teacher Education Handbook is required for the Introduction to Education (CIED 100) course. Students should purchase and review it as soon as they identify an interest in the teaching profession. Then they should schedule an appointment with a School of Education, Health and Human Behavior advisor.

Graduation Requirements
- A grade point average of 2.5 or higher at all institutions and be in good academic standing at SIUE, have a GPA of at least 2.75 in all subject area content courses;
- Completed all specific program requirements (completion of all required content and professional education courses a “C” or better);
- Completed all University requirements:
  - All general education requirements, A minimum of 120 credit hours,
  - At least 30 hours completed at SIUE,
  - At least 60 hours completed at a regionally accredited 4-year institution;
- Completed all skills courses (or approved equivalents) with a C or better
  - ENG 101, ENG 102, ACS 101/103, RA 101, QR 101/MATH 150 or higher;
- Passing score on the ILTS Test of Academic Proficiency or equivalent.
- Passing score on required Middle Level Content Area Test;
- Passing score on required Academic Proficiency Test (APT);
- Passing score on the SIUE Middle Level Education Senior Assignment;
- Application filed for graduation by the first day of the anticipated graduation term.
Requirements for Secondary Teacher Licensure (9-12)

Teacher licensure is a sequence of professional courses leading to completion of an approved initial teacher preparation program in the State of Illinois. In the first two years, students complete a program of general education. During this time, students also enroll in CIED 100 – Introduction to Education or its equivalent from another accredited university, and pass the designated test of academic proficiency. During the third and fourth years, students ordinarily complete work in the major teaching field and in professional education coursework. Students must complete the mandatory pre-clinical hours prior to student teaching.

Students wishing to teach at the secondary level (grades 9-12) major in one of the following: Biological sciences, chemistry, English, geography, history, mathematics, political science, or theatre. Students wishing to teach at the K-12 level major in one of the following: Art, music, or foreign language. Students may choose one of two options:

- Obtain a bachelor of arts degree in a major field and obtain teaching licensure through courses offered by the Department of Teaching and Learning in the School of Education, Health and Human Behavior. (For example, a bachelor of arts degree in history through the College of Arts and Sciences with teacher licensure.) This option requires that students take a full year of a foreign language.

- Obtain a bachelor of science degree in a major field and obtain teaching licensure through courses offered by the Department of Teaching and Learning in the School of Education, Health and Human Behavior. (For example, a bachelor of science degree in history through the College of Arts and Sciences with teacher licensure.)

For both options, students major in an academic discipline other than education, and the content area degree is granted by the college that offers the appropriate major. Some disciplines do not offer the degree options identified above. Some majors require a minor. In order to choose the degree option that best suits their needs and career aspirations, students should consult with an advisor in the College of Arts and Sciences, who is responsible for monitoring general education requirements, and an advisor in the School of Education, Health and Human Behavior, who is responsible for monitoring professional education and licensure requirements. Consulting with your faculty mentor is also required.

Regardless of the degree option chosen, in order to achieve teacher licensure, students must apply to the teacher education program through the School of Education, Health and Human Behavior, and successfully complete a series of professional education courses, pre-clinical hours, student teaching, and pass the edTPA assessment, meeting the score set by the State of Illinois. Students need to be advised both by their major advisor and by a Secondary Education Program Advisor from the School of Education, Health and Human Behavior Student Services as soon as possible.

A Minimum Eligibility Requirements for Admission to Initial Teacher Licensure Program (K-12 or 6-12)

*The requirements that follow are the minimally acceptable requirements that need to be met for students to be considered by the School of Education Health and Human Behavior for admission. These requirements should be used in conjunction with any additional requirements stated by the student’s major field in the College of Arts and Sciences.

To be considered as an eligible applicant for secondary teacher licensure, students must:

- have a cumulative grade point average of 2.5 or higher and have an SIUE GPA of 2.5;
- pass the Illinois Licensure Testing System Test of Academic Proficiency or ACT or SAT;
- Passed all areas of the ILTS Test of Academic Proficiency (TAP), formerly the Basic Skills Test or equivalent test approved by the State of Illinois. Information about the test is available online at [http://www.il.nesinc.com](http://www.il.nesinc.com). You must have a copy of your test scores when you declare your major. (Students now have the option to use their ACT or SAT score in lieu of taking the Test of Academic Proficiency (TAP). Please contact the School of Education, Health and Human Behavior Student Services office for more information on using the ACT score for admissions requirements.

- receive a grade of C or above in five foundations courses or equivalent, and
- complete successfully the introductory course, CIED 100, or its equivalent, with a grade of C or better.
Please note that the State of Illinois is in the process of making significant changes in teacher education that may result in revised standards, programs, testing requirements, and teaching certificates. It is very important that all prospective and current candidates work closely with their advisors to remain current about course and curriculum changes affecting progress through the programs.

**Application Process**

Students must apply by completing an online application available on the School of Education Health and Human Behavior website (http://www.siue.edu/education/advisement/index.shtml).

**Retention**

Students must maintain a 2.5 grade point average overall and earn no less than a C in all professional education, major, and general education courses required for the intended major and minor. Students who do not meet these requirements will receive a written warning and will be removed from future field placements until these criteria are met. Students dismissed from Secondary Teacher Licensure for academic deficiencies may appeal.

**Student Teaching**

Students should not attempt to take, and should not be advised to take, additional courses other than CI315B and CI352 in their final semester. Student Teaching is, on average, a 60-hour per week responsibility and should not be taken lightly. No student will be permitted to enroll in major field or professional education courses (other than senior project) during their student teaching without written permission of the Secondary Education Program Director. Student teaching is only available once a year, in the spring semester.

**Transfer**

Transfer students should contact an advisor in the School of Education, Health and Human Behavior Student Services as early as possible to discuss transfer procedures.

**General Education and Degree Requirements**

Some programs may take more than eight semesters for completion of licensure requirements, depending on the teaching fields selected.

**Foundations Courses** (referred to in entrance requirements above)

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>ENG 102</td>
</tr>
<tr>
<td>ACS 101</td>
<td>RA 101</td>
</tr>
<tr>
<td>QR 101</td>
<td></td>
</tr>
</tbody>
</table>

**Major in Teaching Field (36-76 hours)**

See departmental outlines for specific information for each major.

Students are required to complete a teaching methods course within the major.

**Minor, Second Teaching Field, or Supporting Courses (up to 32 hours)**

Depending on the major, students may be required to complete a minor for broad field licensure. Others may take courses that support their major but do not constitute a complete minor. Please consult the content major advisor for details.

**Endorsements**

Students have the opportunity to add endorsements (additional teaching fields) to their Professional Educator License. Please see the School of Education Advisors for specific available options.

**Professional Education**

Art, health education, and music follow a different set of professional education requirements as listed in the appropriate sections of the catalog. A grade of C or better is required in all professional education courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIED 100</td>
<td>CI 315A</td>
</tr>
<tr>
<td>CI 315B</td>
<td>CI 352A-T (student teaching)</td>
</tr>
<tr>
<td>CI 323</td>
<td>EPFR 315</td>
</tr>
<tr>
<td>EPFR 320</td>
<td>SPE 400</td>
</tr>
</tbody>
</table>

**Additional University Requirement**

The University requires students to submit a senior project. This requirement is an integral part of the program. Details are available from the student’s major advisor.

**Special Education**

The Special Education program offers undergraduate and graduate programs in special education. Programs in the department combine classroom instruction and research and provide opportunities for practical experiences in a variety of settings.

The special education program offers Council for the Accreditation of Educator Preparation approved programs at the undergraduate level for teaching licensure as a Learning Behavior Specialist (LBS 1). The program offers two options leading to a Master of Science in Education degree: (1) teachers licensed in another area can obtain subsequent licensure as a Learning Behavior Specialist (LBS 1), (2) those not seeking additional licensure can obtain an M.S.Ed. with emphasis in Professional Development in Special Education.

**Admission**

Admission to a major within the special education program requires satisfactory completion of the pre-special education program described in the section below. A student handbook and application forms for admission to the major are available in
the School of Education, Health and Human Behavior Student Services, Founders Hall, Room 1110. Applications should be completed by March 1 for the fall semester. Application to the program is a competitive process. Applying to the program does not guarantee admission.

Requirements for admission to the major are:

- admission to SIUE;
- passage of the ILTS Test of Academic Proficiency or a composite score of 22 or higher on the ACT Plus Writing is required for admission to the Special Education program. The scores must be no older than ten years at the time of admission to the program.
- a cumulative grade point average of 2.5 or higher from all secondary institutions attended;
- 42 semester hours of coursework;
- grades of C or higher in each course included in the 15 hours of foundations coursework;
- a grade of B or higher in SPE 100 or an equivalent professional level course;
- good academic standing at SIUE (if applicable)
- application for admission to the special education program and transcript of all coursework completed. These should be submitted by March 1 for fall admission.

Please submit to:
Undergraduate Advisor for Special EducationSchool of Education, Health and Human Behavior Student ServicesSouthern Illinois University EdwardsvilleEdwardsville, IL 62026-1062

Retention
Students must maintain a 2.5 grade point average overall and a 3.0 grade point average in professional and special education coursework. Students whose GPA falls below the required level will receive a letter of warning stating that they will not be permitted to take additional special education courses until the GPA returns to the required level. Students who do not maintain a 2.5 cumulative grade point average and a 3.0 for professional and special education coursework will be dismissed from the program. Students must have a grade of C or higher in all professional education courses prior to student teaching and prior to program completion.

Students dismissed from the department for academic deficiencies may appeal through the special education undergraduate advisor to the department’s Student and Academic Affairs Committee. Students may be directed to reapply to the program or retake specific coursework to raise the cumulative grade average.

Transfer
Transfer students should contact an advisor in the School of Education, Health and Human Behavior Student Services as early as possible to discuss transfer procedures.

General Education and Major Requirements
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. Students majoring in Special Education should also complete the following:

| PSYC 111 | HIST 200 or 201 | POLS 112 |
| GEOG 210 | SCI 241A | SCI 241B | MATH 112A |
| MATH 112B | SPE 100 |

Professional Education
CIED 310

Special Education Requirements
SPE 290 | SPE 401 | SPE 402 | SPE 405
SPE 412 | SPE 415 | SPE 416 | SPE 417A
SPE 417B | SPE 418 | SPE 421 | SPE 422
SPE 430a | SPE 430b | SPE 441 | SPE 442
SPE 470 | SPE 471 | SPE 481 | SPE 499

Pre-Clinical Experiences
Candidates progress through a series of developmentally sequenced field experiences for the full range of ages, types, and levels of
abilities and collaborative opportunities that are appropriate to the learning behavior specialist. These experiences are supervised by qualified professionals. These experiences, which must be completed prior to student teaching, are arranged through the School of Education, Health and Human Behavior Student Services.

**Student Teaching**
Student teaching is the culminating experience in the special education teacher preparation program. It is required to meet the degree requirements of the Department, School, and University, the licensure requirements of Illinois and standards of the Council for the Accreditation of Educator Preparation and the Council for Exceptional Children. Student teaching demands full-day involvement in an appropriate, approved public school program for students with disabilities. Therefore, students should avoid employment during the student teaching experience and should schedule student teaching at a time when they are free of other demands on their time and energy. Requests for an overload during student teaching must be approved by the department chair and the associate dean of the School of Education, Health and Human Behavior. Student teaching is not available during the summer term.

Official student teaching application packets are available from the School of Education, Health and Human Behavior Student Services. Admission to the major does not guarantee that students may engage in student teaching. Permission to take student teaching is based on (a) cumulative GPA 2.5 or higher, (b) a GPA of 3.0 or higher in Special Education and professional education coursework, (c) successful completion of all professional and special education coursework, and (d) passage of the Illinois Learning Behavior Specialist I content exam and the Special Education General Curriculum Test. Students must have a grade of C or higher in all professional education courses prior to student teaching and prior to program completion. In addition, the candidate must pass the edTPA prior to graduation.

**Senior Assignment Project**
The Student Teaching Project is the senior assignment and culminating experience for the Undergraduate Special Education Program. It is a performance assessment which demonstrates the teacher candidate’s ability to facilitate learning based on the expectations put forth by the Council for Exceptional Children (CEC) and Illinois Professional Teaching Standards. During the student teaching semester, each candidate will complete a performance assessment project that includes assessing his/her impact on student learning and reflecting on personal teaching abilities. This senior assignment enables students to demonstrate the integration of their general, professional, and special education coursework.

**Student Council for Exceptional Children**
The special education program sponsors a chapter of the Student Council for Exceptional Children. Students are encouraged to become members of the chapter and to participate in meetings with guest speakers, develop community projects with persons who have disabilities, and read professional journals. Membership is open to all students.

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**Sample Curriculum for the Bachelor of Science in Special Education**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 112a Mathematics for Elementary Teachers (BPS)</td>
<td>ENG 102 English Composition II</td>
</tr>
<tr>
<td>ENG 101 English Composition I</td>
<td>HED 111 or any EH (EH)</td>
</tr>
<tr>
<td>SPE 100 Disabilities in Society (EUSC)</td>
<td>MATH 112b Mathematics for Elementary Teacher (BPS)</td>
</tr>
<tr>
<td>ACS 101 or 103 - Oral Expression</td>
<td>QR 101, MATH 150 or Higher</td>
</tr>
<tr>
<td>SCI 241a (BLS, EL)</td>
<td>SCI 241b Foundations of Science (BPS, EL)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Year 2</strong></th>
<th><strong>Year 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 111, ART 111, or any BFPA (BFPA)</td>
<td>Interdisciplinary Studies (IS)</td>
</tr>
<tr>
<td>PSYC 111 (BSS)</td>
<td>GEOG 210 (BPS)</td>
</tr>
<tr>
<td>HIST 200 or HIST 201 (BSS, EL, EUSC)</td>
<td>POLS 112 American National Government (BSS)</td>
</tr>
<tr>
<td>RA 101 or PHIL 212</td>
<td>Any BICS (BICS) (IT 300)</td>
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<tr>
<td>Breadth Humanities (BHUM)/Global Cultures (EGC)</td>
<td>CIED 310</td>
</tr>
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<td><strong>Total</strong></td>
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Sample Curriculum for the Bachelor of Science in Special Education (WF5)

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 3</td>
<td>Year 3</td>
</tr>
<tr>
<td>SPE 401 Field Practicum One</td>
<td>SPE 402 Field Practicum Two</td>
</tr>
<tr>
<td>SPE 290 Language Development</td>
<td>SPE 417b Advanced Reading &amp; Language Arts Methods in Special Education</td>
</tr>
<tr>
<td>SPE 417a Introductory Reading and Language Arts</td>
<td>SPE 430a Classroom Management</td>
</tr>
<tr>
<td>SPE 441 Assessment of Preschool Children with Special Needs</td>
<td>SPE 470 Transition Planning</td>
</tr>
<tr>
<td>SPE 442 Methods and Procedures for Teaching Early Childhood Students with Disabilities</td>
<td>SPE 471 School and Family Partnerships</td>
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<tr>
<td>Total</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
<th>Year 4</th>
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</thead>
<tbody>
<tr>
<td>SPE 412 Assessment for Instructional Decision Making in Special Education</td>
<td>SPE 481 Senior Seminar in Special Education</td>
</tr>
<tr>
<td>SPE 418 Field Practicum Three</td>
<td>SPE 499 Special Education Student Teaching</td>
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<tr>
<td>SPE 421 Mathematics Methods in Special Education</td>
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<tr>
<td>SPE 422 Adaptations and Accommodations in Content-Area Instruction</td>
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<tr>
<td>SPE 430b Behavior Management</td>
<td></td>
</tr>
<tr>
<td>Total</td>
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<table>
<thead>
<tr>
<th>Summer Term</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 415 Instructional &amp; Assistive Technology</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPE 402 Field Practicum Two</td>
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</tr>
<tr>
<td>SPE 416 Functional Curriculum Methods.</td>
<td></td>
</tr>
<tr>
<td>SPE 417b Advanced Reading &amp; Language Arts Methods in Special Education</td>
<td></td>
</tr>
<tr>
<td>SPE 430a Classroom Management</td>
<td></td>
</tr>
<tr>
<td>SPE 470 Transition Planning</td>
<td></td>
</tr>
<tr>
<td>SPE 471 School and Family Partnerships</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

Graduation Requirements

- Complete all specific program requirements
- Complete all University requirements
- Pass all Illinois state licensure requirements for special education
- File an Application for Graduation by the first day of the term in which you plan to graduate

Please Note:
The State of Illinois is in the process of making significant changes in teacher education that may result in revised standards, programs, testing requirements, and teaching licenses. It is very important that all prospective and current candidates work closely with their advisors to remain current about course and curriculum changes affecting progress through the programs.

It is expected that all teacher candidates demonstrate appropriate professional dispositions and maintain satisfactory academic progress in the program. Failure to do so, can lead to dismissal from the program.

Diversity Statement

SIUE’s Teacher Education programs foster teacher candidates’ ability to understand and meet professional responsibilities by modeling respect and value for diversity. Candidates create and engage their students in practices that develop awareness, understanding, respect, and a valuing of the forms of diversity that exist in society and their importance in learning and teaching. The School of Education Health and Human Behavior, teacher education programs are dedicated to supporting all teacher education candidates regardless of their economic or social status and advocates for the rights of students free from discrimination based on race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identification, ability or age.

Applied Health

Lukas Annex, Suite 2616
siue.edu/education/ah

Professors
Cluphf, David. J., Ed.D., 1999,
West Virginia University
Kirk, Erik, Ph.D. (Chair), 2004,
University of Kansas

Associate Professors
Brady, Kathryn, Ph.D., 2009,
University of Missouri-Columbia
Chleboun, Steffany M., Ph.D., 2006,
University of Nebraska-Lincoln
Klein, Nicole Aydt, Ph.D., 1995,
Exercise Science

Program Description

The Exercise Science program combines coursework in both the basic sciences and exercise sciences along with real-world internship experiences to provide students with the preparation needed to excel in a variety of professional health and fitness settings. SIUE's Exercise Science degree provides exceptional preparation for graduate and professional training in a wide range of fitness and medical fields. The program is based upon the knowledge, skills, and abilities outlined by the American College of Sports Medicine's and the National Strength and Conditioning Association's professional certifications.

The Exercise Science program at SIUE provides students with a solid academic foundation in anatomy, physiology, and chemistry along with cutting edge courses in applied exercise science and rehabilitation. Major courses offered include: functional anatomy, biomechanics, exercise assessment, biology of cardiovascular disease, principles of strength and conditioning, and exercise physiology. The program is structured to provide students with the opportunity to develop the skills and abilities that are critical in the growing fields of health, fitness, medicine, and physical and occupational rehabilitation.

Program Overview and General Department Information

Admission

To be admitted to the Exercise Science major, students must:

- earn a grade of C or better in Biology 140 or Biology 150 or its equivalent
- earn a C or better in Chemistry 120a and Chemistry 124a or Chemistry 121a and 125a or their equivalents
- earn a B or better in KIN 275, Introduction to Careers in Nutritional & Exercise Sciences
- have a cumulative grade point average of 2.75 or higher.

Direct Admission for High School Students

High school students with a strong academic record may apply for direct admission into the Exercise Science major. Students must have earned at least a 25 Composite ACT score (1150 SAT) and at least a 3.25 high school grade point average (on a 4-point scale) to be eligible for direct admission to the program.
This admission is contingent upon the student meeting state and program-specific retention requirements while a student at SIUE. These requirements include:

- maintain a cumulative grade point average of 2.75 or higher
- earn a grade of B or better in KIN 275
- earn a grade of C or better in Biology 140 or Biology 150 or its equivalent
- earn a grade of C or better in Chemistry 120A & 124A or Chemistry 121A & 125A or the equivalents.

**Retention**

To remain in good standing in the Exercise Science program, students must:

- maintain a GPA of 2.75 or higher
- achieve a grade of C or better in all major courses.

Students falling below the required 2.75 GPA will be placed on departmental probation for one year. Students not regaining the required 2.75 GPA following this period will be dropped from the program and withdrawn from all Applied Health courses. Students may reapply to the Exercise Science major once their GPA has reached 2.75. Students may only be on departmental probation once during their academic career and if a student’s GPA falls below the required 2.75, he or she will not be allowed to reapply to the Exercise Science program.

**Transfer**

Transfer students may be accepted on a space available basis and must have a minimum GPA of 2.75 and completed KIN 275 (or equivalent) with a B or better and BIOL 140 or BIOL 150 (or equivalent) and CHEM 120a/124a or CHEM 121, 125a (or equivalent) with a C or better to be considered for acceptance. Transfer credit for courses will be evaluated by the Registrar.

**General Education Requirements**

**Foundations Courses**

- ENG 101
- ENG 102
- QR 101
- RA 101
- ACS 101 or ACS 103

**Breadth Areas**

- Fine & Performing Arts (BFPA) - Any BFPA course
- Humanities (BHUM) - Any BHUM course (PHIL 321 recommended)
- Information & Communication in Society (BICS)
- Life Science (BLS) - BIOL 140 or 150 (C or better)
- Physical Science (BPS) - CHEM 120a/124a or CHEM 121a/125a (C or better)
- Social Science (BSS) - Any BSS course (PSYC 111 is recommended)

**Experiences**

- Lab (EL) - CHEM 124a/125a
- Health (EH) - PBHE 111 (or any EH elective)
- New Freshman Seminar (NFS)
- Global Cultures - EGC
- United States Cultures - EUSC
- Interdisciplinary Studies Course

**Major Requirements**

- KIN 275
- KIN 310
- KIN 315
- KIN 316
- KIN 319
- KIN 340
- KIN 350
- KIN 412
- KIN 416
- KIN 417
- KIN 426
- KIN 460
- KIN 464
- BIOL 240A
- BIOL 240B
- BIOL 151
- BIOL 220
- BIOL 250
- CHEM 120B/124B
- CHEM 121B/125B
- CHEM 241A
- CHEM 241B
- CHEM 451
- HED 111
- HED 240
- KIN 211
- KIN 418
- KIN 270
- KIN 490
- KIN 460
- KIN 496
- MATH 150
- NURS 234
- PHIL 320
- PHIL 321
- PHYS 131
- PHYS 132
- PSYC 201
- PSYC 203
- PSYC 204
- PSYC 431

Approved Major Electives from appropriate disciplines approved by the advisor.

**Major Electives**

Exercise science students may tailor their elective courses to meet their career and graduate school goals. The exercise science program has established pre-professional and graduate school elective suggestions that are commonly required for admission in a wide range of allied health programs. Exercise science students may choose elective groups in pre-physical therapy, pre-occupational therapy, pre-medical school, exercise physiology, and health and corporate wellness.

**Senior Assignment and Clinical Internship**

Students are required to complete a community based senior assignment project. The exercise science senior assignment challenges students to apply their formal course training into an meaningful and impactful project with community partner. In addition all exercise science students must complete a 200 hour internship in a community based allied health setting. The internship provides students with their first professional experiences. Exercise science students have completed their internships in physical and occupational therapy organization, hospital and medical centers, research centers, strength and conditioning organizations, and a wide range of health focused businesses.
Sample Curriculum for the Bachelor of Science in Exercise Science

Fall Semester  

Year 1  

CHEM 120A/121A (BPS) .......................... 3-4  
CHEM 124A/125A (EL) .......................... 3  
ENG 101 - English Composition I .................. 3  
Breadth Social Science (BSS) ...................... 3  
ACS 101 - Public Speaking .......................... 3  
Total ........................................ 13-14  

Year 2  

BIOL 240a – Human Anatomy (BLS, EL) ................. 4  
HED 111 – Personal Health (EH) or EH Elective ............ 3  
KIN 310 - Exercise Psychology ........................ 3  
Breadth Fine & Performing Arts (BFPA) ........ 3  
Life, Physical or Social Science/Experience US Culture  
("EUSC") .................................... 3  
Total ........................................ 16  

Year 3  

KIN 350 - Exercise Physiology .......................... 3  
KIN 315 – Functional Anatomy ........................ 3  
KIN 319 - Theory of Strength Train/Condition ............... 3  
KIN Elective ...................................... 3  
Life, Physical or Social Science* ........................ 3  
Total ........................................ 15  

Year 4  

KIN 412 – Biology of Cardiovascular  
and Metabolic Disease ................................. 3  
KIN 416 – Exercise Assessment/Programming ............ 3  
KIN Elective ...................................... 3  
KIN Elective ...................................... 3  
Life, Physical, or Social Science (*) ....................... 3  
Total ........................................ 15  

Spring Semester  

Year 1  

KIN 275 – Introduction to Careers in Nutritional & Exercis  
Sciences .......................................... 3  
BIOL 140/150 (BLS) .................................. 3-4  
New Freshman Seminar (NFS) .......................... 3  
RA 101 ............................................ 3  
ENG 102 – English Composition II ...................... 3  
Total ........................................ 5-16  

Year 2  

KIN Elective ...................................... 3  
KIN Elective ...................................... 3  
BIOL 240b – Human Anatomy & Physiology (BLS, EL) ........ 4  
Humanities Breadth (BHUM) ............................. 3  
QR 101 - Quantitative Reasoning .......................... 3  
Total ........................................ 16  

Year 3  

KIN 417 - Exercise for Special Populations .................... 3  
KIN 316 - Biomechanics of Human Movement .............. 3  
IS Course ......................................... 3  
KIN 340 - Organization of Exercise Facilities .............. 3  
Global Cultures (EGC) ................................ 3  
Total ........................................ 15  

Year 4  

KIN Elective ...................................... 3  
KIN 426 – Cardiac and Pulmonary Rehabilitation .......... 3  
KIN 460 - Internship in Exercise Science ................. 3  
KIN 464 – Senior Assignment in Exercise Science ........ 3  
STAT 107 or ACS 204 (or any BICS) .................... 3  
Total ........................................ 15  

The University requires students earning a B.S. Degree to complete at least eight (8) courses in the sciences (life, physical, or social) (*) , including, as a part of those eight courses, two (2) courses designated as labs (EL).

Exercise and Sport Psychology Minor  
The Department of Applied Health offers a minor in exercise and sport psychology, which may be selected by majors in any field. The minor consists of 18 semester hours.  

Required Courses (12 hours):  
KIN 308 – Human Development Across the Lifespan  
KIN 310 - Exercise Psychology  
KIN 373 - Sport Psychology.  
KIN 401 - Sport Medicine and Rehabilitation  

6 hours from the following list:  
KIN 334 - Early Childhood Physical Education  
KIN 355 - Sports Nutrition and Supplementation  
KIN 417 - Exercise for Special Populations  

PBHE 230 - Emotional Health and Stress Management  
PBHE 240 - Introduction to Applied Nutrition  
PBHE 355 - Introduction to Public Health  
PBHE 405 - Health Counseling  
PBHE 462 - Special Topics in Health Education - Aging  

Applicants to the Exercise and Sport Psychology minor must have a minimum cumulative GPA of 2.5 or higher required for admissions, retention, and graduation with the minor.  

Graduation Requirements: Obtain a grade of C or higher in all minor classes. If dismissed from the minor, a student can reapply to the minor once they have met the standards above.  

2018-2019 Undergraduate Catalog
Graduation Requirements
- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
  - File an Application for Graduation by the first day of the term in which you plan to graduate.

Public Health

Program Description
The Public Health Program draws from the social and bio-behavioral health sciences to prepare public health professionals with knowledge and skills to use an evidence-based, multi-level approach to address health equity in communities through leadership, promotion, prevention, and advocacy. Entry level public health professionals work with diverse domestic and international communities on a variety of health issues in the areas of community needs assessment, program planning, implementation, and evaluation, public health policy development and management, and health advocacy. Successful completion of the program effectively prepares students to sit for the Certified Health Education Specialist (CHES) exam, given twice yearly. The Public Health program is accredited by the Council on Education for Public Health (CEPH).

Career Opportunities
The career outlook is promising for Public Health professionals. Our graduates are employed in a variety of settings, including state and local departments of public health, nonprofit organizations, corporations, schools, colleges and universities, and medical care settings. Those who wish to obtain advanced degrees in graduate school will be prepared for programs in public health, healthcare administration, clinical medicine, and nursing. Interested students should contact a Public Health advisor in the Office of Student Services of the School of Education, Health & Human Behavior.

Program Overview and General Department Information

Admission
To be admitted students must:
- have a minimum cumulative GPA of 2.5
- Complete ENG 101 and 102 with grades of C or better.

Direct Admission for High School Students
High school students with a strong academic record may apply for direct admission into the Public Health major. Students must have earned at least a 25 Composite ACT score (1150 SAT) and at least a 3.25 high school grade point average (on a 4-point scale) to be eligible for direct admission to the program.

This admission is contingent upon the student meeting state and program-specific retention requirements while a student at SIUE.

Retention
To be retained, majors must:
- maintain a GPA of 2.5 in their SIUE course work
- obtain a grade of B or better in PBHE 111
- obtain grades of C or better in all PBHE major classes

Public Health majors falling below the required cumulative GPA of 2.5 will have one semester to raise their GPA to continue being a Public Health major. If the student’s GPA remains below 2.5 in the next semester, the student will be undeclared as a major and an advisor will review other major options at SIUE with the student.

Transfer
Transfer students may be required to complete additional hours in general education to meet certification requirements.

General Education Requirements for the Major

Foundations Courses
ENG 101   ENG 102   RA 101   ACS 101 or ACS 103
QR 101

Breadth Areas
Fine & Performing Arts (BFPA) - Any BFPA course
Humanities (BHUM) - Any BHUM course
Information & Communication in Society (BICS) - STAT 107 or STAT 244
Life Science (BLS) - BIOL 205
Physical Science (BPS) - Any BPS course
Social Science (BSS) - At least 2 BSS courses
Experiences
Lab (EL) - Any EL
Health (EH) - PBHE 111 or 210 or 213 or 220 or 230 or 240
New Freshman Seminar (NFS) - Any NFS
Global Cultures (EGC) - Any EGC
United States Cultures (EUSC) - Any EUSC

Interdisciplinary Studies Course (IS)

Approved Major Electives (12 or more hours from the following or from appropriate disciplines approved by the advisor)
PHEME 210  PBHE 220  PBHE 213  PBHE 230
PBHE 240  PBHE 462  PBHE 464  PBHE 470
PBHE 489  ACS 304  GEOG 404

Students are required to complete a senior assignment.
Successful completion of an appropriate internship culminates the student’s professional preparation.

Degree Requirements B.S.

Public Health Core Major Requirements
PBHE 111  PBHE 305  PBHE 353  PBHE 355
PBHE 363  PBHE 370  PBHE 375  PBHE 405
PBHE 410  PBHE 420  PBHE 455  PBHE 490
PBHE 491  PBHE 495  PBHE 498  PBHE 499

Sample Curriculum for the Bachelor of Science, Public Health

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Year 1</td>
</tr>
<tr>
<td>ENG 101 (NFS) – English Composition I</td>
<td>STAT 107 or 244 (*BPS)</td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation</td>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>ACS 101 - Public Speaking</td>
<td>PBHE 111 (EH) - Personal Health</td>
</tr>
<tr>
<td>Any Breadth Social Science (*BSS)</td>
<td>CMIS or CS 108 (BICS)</td>
</tr>
<tr>
<td>Life, Physical or Social Science with a lab (*EL)</td>
<td>BIOL 111 (*BLS) - Contemporary Biology</td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
</tr>
</tbody>
</table>

| Year 2 | Year 2 |
| Breadth Life, Physical, or Social Science (*BLS/BPS/BSS) | BIOL 205 (*BLS)- Human Diseases |
| Breadth Fine & Performing Arts (BFPA) | Experience Global Cultures (EGC) |
| Breadth Humanities (BHUM) | Experience United States Cultures (EUSC) |
| Breadth Life, Physical, or Social Science (*BLS/BPS/BSS) | LS/PS/SS with lab (*EL) |
| QR 101 - Quantitative Reasoning | PBHE Elective |
| Total | Total | 15 |

| Year 3 | Year 3 |
| PBHE 305 - Foundations of Community Health | PBHE 370 - Instructional Strategies in Community Health |
| PBHE 353 - Public Health Data Analysis | PBHE 375 - Research Methods in Public Health |
| PBHE 355 - Introduction to Public Health | PBHE 420 - Contemporary & Controversial Issues in Health |
| PBHE 410 - Environmental Health | PBHE Electives |
| PBHE Elective | Total | 6 |
| Total | Total | 15 |

| Year 4 | Year 4 |
| PBHE 363 - Public Health Policy and Management | PBHE 495 – Grant Writing in Public Health |
| PBHE 405 – Health Coaching | PBHE 498 - Senior Research Assignment |
| PBHE 455 – Intro to Epidemiology | PBHE 499 - Internship in Public Health |
| PBHE 490 - Program Planning in Community Health | PBHE 491 - Program Planning & Evaluation in Community Health |
| Interdisciplinary Studies (IS) | Total | 3 |
| Total | Total | 15 |

The University requires students earning a B.S. degree to complete at least eight (8) courses in the sciences (life, physical or social) (*), including, as part of those eight courses, two (2) courses designated as labs (EL).
Public Health Minor Option

The Department of Applied Health offers a minor in Public Health, which may be selected by majors in any field. A minor in Public Health may assist those who wish to receive teacher certification in health, but it is still necessary to complete a major in an approved certification program.

The minor consists of 21 semester hours. Students are required to take PBHE 111, 305, and 355. The remaining 12 hours are chosen from other Public Health courses with the consent of an advisor.

Applicants to the PBHE minor must:
- have a minimum cumulative grade point average of 2.5 or higher
- complete ENG 101 and 102 with grade of C or better

To be retained, minors must:
- maintain a GPA of 2.5 in their SIUE coursework
- obtain a grade of B or better in PBHE 111
- obtain a grade of C or better in all PBHE minor classes

Public Health minor falling below the required cumulative GPA 2.5 will have one semester to raise their GPA to continue being a Public Health minor. If the student's GPA remains below 2.5 GPA in the next semester, the student's minor will be removed, and an advisor will review other minor options at SIUE with the student.

Graduation Requirements
- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.0
- File an Application for Graduation by the first day of the term in which you plan to graduate.
- Earn a C or better in all PBHE major classes

Nutrition

Program Description
The Bachelor of Science in Nutrition focuses on the study of foods and nutrients and their effect on the health of individuals. The program combines coursework in both the basic sciences and nutritional sciences to provide students with the preparation needed to excel in a variety of professional nutrition and health settings. It provides exceptional preparation for graduate and professional training in a wide range of nutrition, health and medical fields.

The BS in Nutrition major emphasizes intensive study in biological and physical sciences as a basis for understanding the science of nutrition and the relationships between nutrients and human health. Core course requirements focus on human nutrition with areas of study in energy metabolism, proteins, vitamins, minerals, community nutrition and diet in the prevention and treatment of diseases. Students earning a BS in Nutrition will have an in-depth knowledge of the science of nutrition and a solid foundation in applied science. The program is structured to provide students with the opportunity to develop the skills and abilities that are critical in the growing fields of nutrition, health and medicine.

Program Overview and General Department Information

Admission Requirements
To be admitted to the nutrition program, students must:
- earn a grade of C or better in Biology 140 or Biology 150 or its equivalent
- earn a C or better in Chemistry 120a and Chemistry 124a or Chemistry 121a and 125a or their equivalents
- earn a B or better in KIN 275, Introduction to Careers in Nutritional and Exercise Science
- have a cumulative grade point average of 2.75 or higher.

Application Deadline: Ongoing

Direct Admission Program
High school students with a strong academic record may apply for direct admission into the Nutrition major. Students must have earned at least a 25 Composite ACT score (1150 SAT) and at least a 3.25 high school grade point average (on a 4-point scale) to be eligible for direct admission to the program.

This admission is contingent upon the student
meeting state and program-specific retention requirements while a student at SIUE.

**Additional Requirements for International Applicants:**
In addition to the requirements for admission listed above, international applicants whose native language is not English must demonstrate English language proficiency as outlined by International Students Admissions.

**Retention**
To remain in good standing in the Nutrition program, students must:
- maintain a GPA of 2.75 or higher
- achieve a grade of C or better in all major courses.

Students falling below the required 2.75 GPA will be placed on departmental probation for one year. Students not regaining the required 2.75 GPA following this period will be dropped from the program and withdrawn from all Applied Health courses. Students may reapply to the Nutrition major once their GPA has reached 2.75. Students may only be on departmental probation once during their academic career and if a student’s GPA falls below the required 2.75, he or she will not be allowed to reapply to the Nutrition program.

**Transfer**
Transfer students may be accepted on a space available basis and must have a minimum GPA of 2.75 and completed KIN 275 (or equivalent) with a B or better and BIOL 140 or BIOL 150 (or equivalent) and CHEM 120a/124a or CHEM 121, 125a (or equivalent) with a C or better to be considered for acceptance. Transfer credit for courses will be evaluated by the Registrar.

**General Education Requirements for the Major**

**Foundations Courses**
- ENG 101
- ENG 102
- RA 101
- ACS 101 or ACS 103
- QR 101

**Breadth Areas**
- Fine & Performing Arts (BFPA) - Any BFPA course
- Humanities (BHUM) - Any BHUM course
- Information & Communication in Society (BICS) - Any BICS course
- Life Science (BLS) - BIOL 140/150, BIOL 240a, BIOL 240b, BIOL 250
- Physical Science (BPS) - CHEM 120a/121a, CHEM 120b/121b
- Social Science (BSS) - PSYC 111

**Experiences**
- Lab (EL) - CHEM 124a/125a
- Health (EH) - NUTR 205
- New Freshman Seminar (NFS) - Any NFS
- Global Cultures (EGC) - Any EGC course
- United States Cultures (EUSC) - SOC 111

**Interdisciplinary Studies Course**
- Any IS course

**Major Requirements**
- NUTR 205
- NUTR 210
- KIN 211
- NUTR 250
- KIN 275
- NUTR 319
- NUTR 327
- NUTR/KIN 355
- NUTR 401
- NUTR 408
- NUTR 409
- NUTR 410
- NUTR 411
- KIN 412
- NUTR 464

**Electives (16 hours)**
Nutrition students may tailor their elective courses to meet their career and graduate school goals. The nutrition program has established pre-professional and graduate school elective suggestions that are commonly required for admission in a wide range of allied health programs that include dietetics, pre-medical, exercise physiology, and health and corporate wellness.

**Senior Assignment**
Students are required to complete a community based senior assignment project. The nutrition senior assignment challenges students to apply their formal course training into a meaningful and impactful project with a community partner. Nutrition students typically complete their projects at hospital and medical centers, research centers, strength and conditioning organizations, and a wide range of health focused businesses.

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**Sample Curriculum for the Bachelor of Science, Nutrition**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>ENG 101 (NFS) – English Composition I .................. 3</td>
<td>ENG 102 – English Composition II ..................... 3</td>
</tr>
<tr>
<td>ACS 101 - Public Speaking  ......... 3</td>
<td>BIOL 250 - Bacteriology  ......................... 4</td>
</tr>
<tr>
<td>BIOL 140 - Human Biology (BLS*) ....... 3</td>
<td>BIOL 240A - Anatomy &amp; Physiology I* .............. 4</td>
</tr>
<tr>
<td>PSYC 111 - Psychology (BSS*) .......... 3</td>
<td>SOC 111 - Introduction to Sociology (EUSC) .......... 3</td>
</tr>
<tr>
<td>CHEM 120A - General, Orgc &amp; Biol Chemistry (BPS*) or CHEM 121B - General Chemistry (BPS*) 3-4</td>
<td>CHEM 120B - General, Orgc &amp; Biol Chemistry (BPS*) or CHEM 121B - General Chemistry (BPS*) 3-4</td>
</tr>
<tr>
<td>CHEM 124A - General, Orgc &amp; Biol Chemistry Lab (EL*) or CHEM 124B General, Orgc &amp; Biol Chemistry Lab (EL*) or CHEM 125A - General Chemistry Lab I (EL*) 1</td>
<td>CHEM 125B - General Chemistry Lab II (EL*) .......... 1</td>
</tr>
<tr>
<td>Total  ....................................... 16-17</td>
<td>Total ............................................ 1 7-18</td>
</tr>
</tbody>
</table>
The University requires students earning a B.S. degree to complete at least eight (8) courses in the sciences (life, physical or social) (*), including, as part of those eight courses, two (2) courses designated as labs (EL).

Nutrition Minor
The Department of Applied Health offers a minor in Nutrition, which may be selected by majors in any field. The minor consists of 18 semester hours. Students are required to take NUTR 205, 210, 250, 327, 355, and 408.

Applicants to the Nutrition minor must:
■ have a minimum cumulative grade point average of 2.75 or higher.

To be retained, minors must:
■ maintain a GPA of 2.75 in their SIUE coursework
■ obtain a grade of C or better in all nutrition minor classes

Nutrition students falling below the required retention requirements will be placed on probation for one year. Students not regaining retention standards following this period will be dropped from the minor and withdrawn from nutrition courses. Students may reapply to the Nutrition minor once the retention standards have been met.

Graduation Requirements
Students must complete all specific program and university requirements which include:
■ Complete all specific program requirements
■ Complete all general education requirements
■ Complete a minimum of 120 credit hours (at least 30 of which must be completed at SIUE and at least 60 of which must be completed at a regionally accredited 4-year institution)
■ A minimum cumulative grade point average of 2.75
■ Bachelor of Science requires completion of eight lecture courses in life, physical or social science, including two with labs (EL). Check the Course Equivalency Guides (CEG) at siue.edu/transfer for approved courses.

Speech Pathology and Audiology

Program Description
Undergraduate courses in speech-language pathology and audiology provide students with a scientific background for understanding communication disorders. Students acquire knowledge in speech and hearing science, normal processes and the development of speech, language, and hearing. Students also study disorders of speech, language, and
hearing, review assessment methods and procedures in communication disorders, and engage in a clinical practicum experience through their senior assignment.

The faculty of the Speech-Language Pathology and audiology program foster students’ ability to understand and meet professional responsibilities by modeling respect and value for diversity. Students create and engage in practices that develop awareness, understanding, respect, and a valuing of the forms of diversity that exist in society and their importance in learning and working with a variety of individuals. The program of Speech-Language Pathology and Audiology is dedicated to supporting all students regardless of their economic or social status and advocates for the rights of students free from discrimination based on race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, gender identification, ability or age.

Career Opportunities
There are a variety of careers available for students with an undergraduate degree in Speech-Language Pathology and Audiology. Many of our students pursue a graduate degree in speech-language pathology or audiology which leads to certification and the opportunity to practice as a Speech-Language Pathologist or Audiologist.

Certified speech-language pathologists and audiologists find employment in a variety of settings, including hospitals, community clinics, colleges and universities, state and federal agencies.

Other graduates of our program have pursued graduate degrees in related areas such as teaching, college student personnel, instructional technology and chiropractic medicine. Likewise, students who do not pursue graduate school are prepared for careers in private business and industry including augmentative and alternative communication sales, assistive technology, medical sales, medical publications, research, or hearing aid dispensing.

The field of speech-language pathology and audiology is broad and there are many opportunities to further support and expand students’ experiences. Students are encouraged to pursue minors and take elective courses that will establish a strong science and liberal arts background. Complementary minors include psychology, linguistics, foreign language, and health science, among others. Diverse academic experience can provide students with a competitive edge in graduate school and in the workforce.

Admission
To declare as a major, students must have a minimum cumulative grade point average of 2.75 or higher and have successfully completed any required Academic Development coursework.

Direct Entry
High school students may be directly admitted into the speech-language pathology program. Retention is contingent upon the student meeting the program specific retention requirements while a student at SIUE. These requirements include:

- Maintain a cumulative GPA of 2.75 or higher on a 4.0 scale.
- Earn a grade of C or better in all speech-language pathology coursework.
- Earn a grade of C or better in the related coursework, which includes one course in each of the following four areas: social/behavioral sciences, biological sciences, physical sciences (chemistry or physics 111) and statistics.

Retention
In order to be retained within the Speech-Language Pathology and Audiology program, students must maintain a 2.75 GPA.

Transfer
Course work completed at regionally accredited institutions will be evaluated upon admission to the University. Results of transfer credit evaluations are available to students through CougarNet. For more information about transfer, please visit www.siue.edu/transfer.

Cooperative Education and Internships
For enrollment licensure purposes, University-sponsored cooperative education and internship participation is considered equivalent to full-time enrollment. This requires formal enrollment in an approved co-op or internship course through the Career Development Center.

Degree Requirements
General Education Requirements
Refer to General Education section of this catalog.

Bachelor of Science

<table>
<thead>
<tr>
<th>SPPA 101</th>
<th>SPPA 210</th>
<th>SPPA 220</th>
<th>SPPA 231</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPPA 250</td>
<td>SPPA 312</td>
<td>SPPA 321</td>
<td>SPPA 322</td>
</tr>
<tr>
<td>SPPA 361</td>
<td>SPPA 397</td>
<td>SPPA 441</td>
<td>SPPA 442</td>
</tr>
</tbody>
</table>
Sample Curriculum for the Bachelor of Science in Speech-Language Pathology and Audiology

### Fall Semester

**Year 1**
- ENG 101 – English Composition I ........................................ 3
- ACS 101 - Public Speaking .................................................. 3
- PSYC 111 – Foundations of Psychology (BSS) .......................... 3
- Breadth Life Science (BLS) BIOL 111 recommended ............... 3/4
- STAT 107 - Concepts of Statistics (BICS) ................................. 3
- Total ................................................................. 15

**Year 2**
- RA 101 - Reasoning & Argumentation ................................ 3
- Breadth Humanities (BHUM) .................................................. 3
- EH/EGC - NUTR 210 Recommended ....................................... 3
- SPPA 210 - Fundamentals of Language Analysis ...................... 3
- SPPA 220 – Anatomy & Physiology of the Speech & Hearing Mechanisms ................................................. 3
- Total ................................................................. 15

**Year 3**
- SPPA 231 – Phonetics ......................................................... 3
- SPPA 361 – Basic Audimetry .................................................. 3
- Life, Physical or Social Science ............................................. 3
- Interdisciplinary Studies (IS) ................................................... 3
- Life, Physical or Social Science ............................................. 3
- Total ................................................................. 15

**Year 4**
- SPPA 441 - Speech Sound Disorders in Children ..................... 3
- SPPA 446 – Clinical Procedures in Communication Disorders .... 3
- SPPA 442 - Intro to Voice, Fluency, and Motor Speech Disorders .... 3
- Elective ................................................................. 3
- Elective ................................................................. 3
- Total ................................................................. 15

**Total**

- SPPA 444 SPPA 446 SPPA 471 SPPA 499
- STAT 107, Biology, Physical Science (PHYS 111 or Chemistry), PSYC 111, PSYC 201 (may satisfy some general education requirements)

### Spring Semester

**Year 1**
- ENG 102 – English Composition II ......................................... 3
- SPPA 101 – Human Comm & Its Disorders .............................. 3
- QR 101, MATH 150 or Higher ............................................. 3
- Breadth Fine & Performing Arts or Humanities (BFPA) ............ 3
- PHYS or CHEM (BPS) (EL recommended) .............................. 3/4
- Total ................................................................. 15/16

**Year 2**
- SPPA 321 – Hearing Science .................................................. 3
- SPPA 312 – Normal Lang & Speech Acquisition ....................... 3
- PSYC 201 - Child Psychology (BSS) ....................................... 3
- Life, Physical or Social Science (EL if not previously completed with BPS) ................................................. 3
- EUSC - ENG 207 recommended .......................................... 3
- Total ................................................................. 15

**Year 3**
- SPPA 250 – Cultural Diversity in SLP/A .................................. 3
- SPPA 397 - Neuroanatomy and Physiology ............................. 3
- SPPA 322 – Speech Science .................................................. 3
- SPPA 444 – Language Disorders ............................................ 3
- Life, Physical or Social Science (EL if not previously completed with BLS) ................................................. 3
- Total ................................................................. 15

**Year 4**
- SPPA 471 – Aural Rehabilitation ............................................ 3
- SPPA 499 – Senior Assignment ............................................. 2
- Elective ................................................................. 3
- Elective ................................................................. 3
- Elective ................................................................. 2/4
- Total ................................................................. 13/15

### Bachelor of Arts

In addition to the above, eight hours of foreign language are required for the Bachelor of Arts option.

### Speech-Language Pathology and Audiology: Leveling Plan

Students who already have a Bachelor’s degree in a different field can complete selected coursework to prepare them to apply to graduate school in Speech-Language Pathology or Audiology. Completion of the leveling plan does not result in a second Bachelor’s degree.

It is important to note that completing the leveling program does not guarantee admission into graduate school. Any individual graduate program may have additional requirements.

Students have the option of completing the leveling coursework in 1 or 2 years. A fall semester start is required. To be eligible:

1. Must have completed a BA or BS degree in another field.

### Leveling Plan of Study (Recommended)

#### Fall Semester

- SPPA 231-Phonetics ......................................................... 3
- SPPA 210-Fundamentals of Language Analysis ...................... 3
- SPPA 320-Anat & Phys Speech Mechanism ........................... 3
- SPPA 446-Clinical Obs and Procedures .................................. 3
- SPPA 461-Basic Audimetry .................................................. 3

#### Spring Semester

- SPPA 312-Normal Lang & Speech ....................................... 3
- SPPA 321-Hearing Science .................................................. 3
- SPPA 322-Speech Science .................................................... 3
- SPPA 397-Neuroanatomy ..................................................... 3
- SPPA 471-Aural Rehab ......................................................... 3
2. Must have been admitted to the University.

In addition to these courses, student should complete course work in biological science, physical science, statistics and social/behavioral science. Acceptance of coursework that is 10 years or older is at the discretion of the faculty. Students have the option of completing the above coursework in 1 or 2 years.

Completion of the above sequence of courses provides students with the prerequisites necessary to apply to many graduate programs in speech-language pathology or audiology but does not result in a second Bachelor’s degree. Students should check requirements of specific programs to which they wish to apply and customize the above recommended sequence.

Students who already have a Bachelor’s degree and seek a 2nd (undergraduate) degree in Speech-Language pathology and Audiology will be required to meet additional SIUE requirements. These students will follow the traditional Plan of Study as outlined in the SIUE Undergraduate Catalog.

The Leveling Sequence is only offered in an in-class format—there is no online option to complete the sequence. Courses in the fall and spring are approximately 16 weeks in length.

**Graduation Requirements**

Students must achieve a C or better in all major coursework including 12 hours in related areas of social/behavioral sciences, biological sciences, physical sciences (PHYS 111 or chemistry) and statistics. In addition to meeting all program requirements, students must also satisfactorily complete a culminating project in SPPA 499: Senior Assignment Seminar. Second-degree students within the program must also register for and attend SPPA 499: Senior Assignment Seminar.

Furthermore, students who serve as Undergraduate Research and Creative Activities (URCA) Associates, with faculty approval, may use their research project to satisfy exit requirements in the Senior Assignment.
Pawlow, Laura A., Ph.D., 2002, University of Southern Mississippi
Pettibone, Jonathan C., Ph.D., 2000, University of South Carolina
Pomerantz, Andrew M., Ph.D., 1996, St. Louis University
Rose, Paul, Ph.D., 2003, State University of New York – Buffalo

**Associate Professors**

Everett, Gregory E., PhD., 2005, University of Southern Mississippi
McKenney, Elizabeth L. W., PhD, 2010, University of Florida
Meeks, J. Thadeus, Ph.D., 2009, University of Georgia
Nadler, Joel, Ph.D., 2010, Southern Illinois University at Carbondale
Rosnick, Christopher B., PhD., 2005, University of South Florida
Segrist, Dan J., Ph.D., 2000, Southern Illinois University at Carbondale

**Assistant Professors**

Conoyer, Sarah, Ph.D., 2013, University of Missouri - Columbia
Ro, Eunyoe, Ph.D., 2010, University of Iowa
Shimizu, Mitsuru, Ph.D., 2009, State University of New York at Buffalo
Voyles, Elora, Northern Illinois University

**Degree Programs**

Bachelor of Arts Degree, Psychology
Bachelor of Science Degree, Psychology

**Program Description**

Undergraduate courses in psychology acquaint students with both the methods used and the knowledge gained by psychologists in their continuing efforts to understand mental processes and behavior. Students study basic psychological processes such as learning, cognition, and motivation; the development of behavior, personality, and coping skills from conception through old age; human interaction in social settings; and the effects of physical and psychological stress upon coping skills and mental health. Psychology is both a scholarly scientific discipline which seeks to understand and explain behavior and an applied profession which seeks to alleviate psychological problems and enhance human potential.

The psychology major prepares students for a variety of occupations and serves as professional training for students wishing to attend graduate school and pursue careers as psychologists. The psychology major also is valuable preparation for other professional careers such as medicine, dentistry, law, and management.

**Career Opportunities**

Students obtaining an undergraduate degree in psychology will find themselves well prepared to pursue a variety of careers in which basic knowledge of psychological processes is valuable, (e.g., personnel officers, laboratory technicians, sales or public relations specialists, customer services, suicide prevention workers, mental health or corrections workers, juvenile and youth services, child care workers, substance abuse counselors, statisticians and research analysts and a variety of social service workers). Graduate training is required to become a licensed psychologist.

**Program Overview and General Department Information**

Students must be advised and have a program plan on file with the department before being accepted as a major. There are two psychology advisors. The advisors may be used as a resource for information about the department, University and career opportunities, as well as course scheduling and program changes. The psychology advisors are located in Founders Hall, Room 1110.

All students applying for a major in psychology should take PSYC 111 as a first course in psychology. Majors should complete the core sequence of PSYC 111, 200, 220 and 221 within the first four semesters after acceptance as majors. PSYC 220 must be successfully completed before students can enroll in 221. Majors and minors who desire to transfer credit from other colleges or universities must have their transcripts evaluated as soon as possible by a psychology advisor so that any credits accepted may be noted in their files.

Aspects of the psychology curriculum which may be of interest are: (1) the Robert J. McLaughlin Psychology Honors Academy, which allows student members to work closely with a faculty member to develop and complete an honor’s thesis (2) independent research and field study courses, in which students may work in a laboratory under the supervision of a faculty member or in a field setting (e.g., a local organization) and (3) clubs and groups such as Psi Chi, Psychology Club, and the Psychology Book Club.
Admission

To be admitted to the psychology program as a major, students must have at least a 2.25 cumulative grade point average overall at SIUE or (for transfer students) at the university of origin.

Retention

Majors earning below a 2.25 cumulative grade point average at SIUE for two consecutive semesters will be dropped from the psychology program. A grade of C or better is required for a psychology course to count toward the major. In addition, a student will be dropped from the psychology program after two unsuccessful attempts of PSYC 200, 220, 221, or 494. Unsuccessful attempts are defined as receiving the grades of W, WF, WP, WR, UW, U, D, or F in a class.

Transfer

Students who wish to major in psychology and who transfer from community colleges must complete at least 15 hours of 300- and 400-level psychology courses at SIUE (or other accredited four-year institutions and SIUE combined). Students who wish to major in psychology and who transfer from accredited four-year institutions must complete at least 12 hours of psychology courses at SIUE. PSYC 220/221 may not be transferred in to satisfy SIUE Psychology requirements. If you are a transfer student just beginning your curriculum at SIUE comparable statistics and research methods courses completed at another four-year university can be evaluated for transfer credit on a case-by-case basis.

General Education Requirements for the Major

Foundations Courses (15 hours)
Breadth Courses (18 hours)
Interdisciplinary Studies (3 hours)
Experience Courses (15 hours)

Sample Curriculum for the Bachelor of Arts in Psychology

Fall Semester

Year 1
PSYC 111 – Foundations of Psychology (BSS) .................. 3
ACS 101 - Public Speaking or ACS 103-Interpersonal Communication .................. 3
ENG 101 – English Composition I .................. 3
Foreign Language 101 (BICS) .................. 3
Breadth Fine & Performing Arts (BFPA) .................. 3
Total ............................................. 16

Spring Semester

Year 1
PSYC 200 – Careers in Psychology .................. 3
ENG 102 – English Composition II .................. 3
Foreign Language 102 (EGC) .................. 4
RA 101 - Reasoning and Argumentation .................. 3
Breadth Life Science (BLS)/Health Experience (EH) .................. 3
Total ............................................. 16

Eight courses in fine & performing arts and humanities including two semesters of the same foreign language

Minor Courses (18-21 hours)

Electives

Degree Requirements for B.A. and B.S. Major

PSYC 111 PSYC 200 PSYC 206 PSYC 208 PSYC 220 PSYC 221 PSYC 494 PSYC 201, 203, or 204

Four electives at the 300 and 400 level (6 hours at the 400 level)

No more than 9 hours of 491, 493, and 496 collectively (and no more than 6 hours in any one of these courses) may be applied toward Psychology major requirements. No more than 3 hours of these courses can count toward Psychology minor requirements (additional hours of these courses can count toward total credit hours needed for graduation).

PSYC 111, 200, 220, and 221 should be completed within four semesters after declaration as a major.

The senior capstone is required of all senior psychology majors. For details, contact your psychology advisor.

The bachelor of science degree program requires completion of eight courses in life, physical and social science including two labs rather than eight courses in fine and performing arts or humanities including one year of foreign language. Admission, retention, and transfer policies remain the same for both degrees.

All students should plan their programs in consultation with their advisors.

The senior assignment is required of all senior psychology majors. For details, contact your psychology advisor.
Sample Curriculum for the Bachelor of Arts in Psychology cont.

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td>PSYC 201, 203, or 204 (Developmental PSYC course)</td>
<td>PSYC 206 – Social Psychology</td>
</tr>
<tr>
<td>Breadth Physical Science (BPS) with a lab (EL)</td>
<td>Fine &amp; Performing Arts or Humanities</td>
</tr>
<tr>
<td>Breadth Humanities (BHUM)/United States Culture (EUSC)</td>
<td>Minor.</td>
</tr>
<tr>
<td>Fine &amp; Performing Arts or Humanities</td>
<td>QR 101 or MATH 150.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

| **Year 3**                                        | **Year 3**                                           |
| PSYC 208 – Cognitive Psychology                   | PSYC Elective (300-400 level)                        |
| PSYC Elective (300-400 level)                     | Interdisciplinary Studies (IS).                      |
| Fine & Performing Arts or Humanities               | Minor.                                               |
| Fine & Performing Arts or Humanities               | Minor.                                               |
| Minor.                                            | Elective.                                            |
| **Total**                                         | **Total**                                            |
| 15                                                | 15                                                  |

| **Year 4**                                        | **Year 4**                                           |
| PSYC Elective (400 level)                         | PSYC 494 – Capstone Seminar in Psychology            |
| PSYC Elective (400 level)                         | Minor.                                               |
| Minor.                                            | Minor.                                               |
| Elective.                                         | Elective.                                            |
| Elective.                                         | **Total**                                            |
| 16                                                | 12                                                  |

**Minor Requirements**

A minor in psychology consists of a minimum of 21 hours. PSYC 111 is required in addition to 18 hours of psychology electives, 6 must be at the 200 level, another 6 at the 300 level, and the last 6 at the 400 level. At least half of all upper-level required hours for a psychology minor must be completed at SIUE. A grade of C or better is required for a course to count toward the minor.

**Graduation Requirements for Psychology Majors**

- Complete all specific program requirements.
- Complete all University requirements including:
  - All general education requirements
  - A minimum of 120 credit hours
    - At least 30 of which must be completed at SIUE
    - At least 60 of which must be completed at a regionally accredited 4-year institution
  - A minimum cumulative grade point average of 2.25
  - Bachelor of Arts only: one year of the same foreign language

- File an Application for Graduation by the first day of the term in which you plan to graduate.
SCHOOL OF ENGINEERING

Cem Karacal, PhD
Dean and Professor
School of Engineering

The School of Engineering offers the bachelor of science degree with majors in civil engineering, computer science, computer engineering, construction management, electrical engineering, industrial engineering, mechanical engineering, mechatronics and robotics engineering, and a bachelor of arts degree in computer science. The bachelor’s degree programs in civil engineering, computer engineering, electrical engineering, industrial engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET, www.abet.org. The bachelor of science program in computer science is accredited by the Computing Accreditation Commission of ABET, www.abet.org. The construction management program is accredited by the American Council for Construction Education, www.acce-hq.org.

School of Engineering Mission Statement

The mission of the School of Engineering is to provide excellent, innovative engineering, computer science and construction education to citizens of Illinois, the greater St. Louis metropolitan area and representatives of the global community. The school focuses on strong undergraduate education and graduate programs that serve the needs of full-time students and employed professionals. Faculty conduct basic and applied research and outreach activities in partnership with others who contribute to technological advancement in the fields of study offered.

School of Engineering Vision Statement

The vision of the School of Engineering is to be a partnership of faculty, students, staff, alumni and other professionals who work together to provide the highest quality education and maintain innovative resources that support the technical growth and economic development of this region.

School of Engineering Core Values

The school’s faculty strive to exhibit and to instill in each graduate the following characteristics:

- technical excellence in their disciplines
- desire for excellence in all they do
- respect for the rich diversity of humankind
- effective communication capabilities

- ability to provide leadership in innovative multidisciplinary teams
- social, civic, and political responsibility built on an understanding of contemporary issues
- commitment to ethical professional conduct and practice
- environmental stewardship
- independent and innovative thought
- pursuit of lifelong learning

Students interested in any of the degree programs offered by the School of Engineering should seek advice from the School of Engineering when they initially enroll in the University.

Admission to School of Engineering Programs

Students admitted to programs offered by the School of Engineering shall have met University admission requirements and the following additional School of Engineering requirements:

- completion of all academic development courses required by the University,
- completion of science courses that will address high school deficiencies,
- eligibility to enroll in MATH 125 – Pre-calculus or higher.

Students who plan to transfer to one of the School of Engineering programs must carry a grade point average of at least 2.0 on a 4.0 scale.

Students who are considering a major in any School of Engineering program should contact the Office of Engineering Student Services, telephone 618-650-5300, or the Dean's Office, telephone 618-650-2541. Early declaration and advisement by the School of Engineering will enable students to enroll in courses that are major-restricted, and to complete their programs with minimum conflicts within the shortest possible time.

Declaring Major

Students admitted to the School of Engineering may enter as Pre-Engineering students and remain at this status until they take 300-level engineering courses. Pre-engineering students are advised by the Office of Engineering Student Services according to the students’ intended plan of study within the School. Pre-engineering students do not pay differential tuition, which is assessed to all other students in the School of Engineering. Once a student takes 300-level engineering courses, the student must then declare a major in one of the programs within the School of Engineering.
Enrollment in Upper-Division Engineering Courses
Eligibility for upper-division courses in civil, industrial, and mechanical engineering requires satisfactory completion of lower-division core courses and additional requirements for each major as outlined in the departmental sections that follow. Application forms for admission to upper-division engineering courses are available through departmental offices as well as the Office of the Engineering Student Services. Deadlines for application to upper-division status are March 15 for summer or fall semester admission, and October 15 for spring semester admission. The admissions committee of the appropriate department evaluates applications to upper division. Students whose applications are rejected may not register for upper-division engineering courses. If the rejection is based on academic performance, students may reapply when eligibility requirements are satisfied. If the rejection is based on failure to complete the requirements, students may reapply when the requirements are completed.

The other programs of the School of Engineering; computer science, construction management, computer engineering, and electrical engineering do not have upper division application process.

Transfer Students
Transfer students wishing to enter one of the programs offered by the School of Engineering should contact Engineering Student Services for transfer credit evaluation at least 30 days before the beginning of the term for which entry is desired. Students must supply copies of the pertinent transcripts and any other materials such as course descriptions or syllabi that may be needed for the evaluation. Only chemistry, computer science, mathematics, physics, and engineering science courses completed with a grade of C or better will be considered for transfer credit toward completing a major or minor in the School of Engineering. In addition, only courses that are part of an ABET-accredited engineering program and that have been completed within the last 10 years will be considered for transfer credit toward any 300- or 400-level engineering course requirement.

Transfer students who satisfy part or all of the University general education requirements by transfer courses or a previous degree must also satisfy the School of Engineering humanities and social sciences requirements for the bachelor of science degree. Any remaining humanities and/or social sciences requirements will be specified by an advisor in the Office of the Engineering Student Services.

Services to Students
The School of Engineering provides a multitude of support services to its students. These services include orientation for new services, advisement, counseling and assistance in networking, tutoring and mentoring, internship placement, and career planning. For more information, contact the Office of Engineering Student Services, telephone 618-650-5300, or the Dean’s Office, telephone 618-650-2541.

Civil Engineering
Engineering Building, Room 2056
siue.edu/engineering/civilengineering

Professors
Cross, Brad, Ph.D., 1992,
The Johns Hopkins University
Morgan, Susan (Associate Dean, Graduate School), Ph.D., 1995,
Clemson University
Panahshahi, Nader, Ph.D., 1987,
Cornell University
Zhou, Jianpeng, Ph.D., 2003,
University of British Columbia

Associate Professor:
Fries, Ryan, (Chair), Ph.D., 2007,
Clemson University
Osouli, Abdolreza, Ph.D., 2010,
University of Illinois at Urbana-Champaign

Assistant Professors
Benjankar, Rohan, Ph.D., 2009,
University of Idaho
Huang, Jianwei, Ph.D., 2010,
Syracuse University
Qi, Yan, Ph.D., 2010,
Louisiana State University

Instructors
Vaughn, Brent, M.S., 1999,
Southern Illinois University Edwardsville

Program Description
Civil Engineers create and maintain the essential infrastructure for society. They conceive, design, and construct bridges, buildings, foundations, highways, airports, water and wastewater treatment plants, waste management systems. They reduce pollution and improve transportation networks.
The Department of Civil Engineering offers a curriculum that provides students with a solid background in mathematics, physical science, and civil engineering. Elective courses are available in environmental, geotechnical, structural, and transportation engineering. Laboratory facilities are available for conducting basic environmental analyses, hydraulic experiments, material tests, soil mechanics procedures, and transportation studies. Baccalaureate graduates are prepared to assist public and private employers or to pursue graduate study. All seniors are strongly encouraged to complete the Fundamentals of Engineering Examination as a first step towards achieving licensure as a professional engineer.

The mission of the Department of Civil Engineering, which assigns first priority to excellence in undergraduate education, is consistent with the mission of the School of Engineering and the University. Its educational objectives are dynamic and regularly reviewed by the program constituencies. They are available on the department’s website, siue.edu/engineering/civilengineering.

Career Opportunities
Civil engineers work in a wide range of fields in both technical and managerial positions. Job opportunities can be found in consulting companies, industry and government agencies. Civil engineers work in offices and on job sites. They design, build, inspect, maintain, rehabilitate, and preserve buildings, bridges, treatment systems, roads — all the essential infrastructure for society. Due to the nature and importance of civil engineering, civil engineers are always needed.

Degree Program
Bachelor of Science, Civil Engineering

Program Overview and General Department Information

Enrollment in Upper-Division Civil Engineering Courses
The following requirements must be met to enroll in upper-division civil engineering courses:

- Satisfactory completion of all University and School of Engineering admission requirements
- An approved application for enrollment in upper-division engineering courses;
- Satisfactory completion of the lower-division courses CHEM 131, 135; CE 204, 206 (or CNST 264), CE 240, 242; ENG 101, 102; IE/MATH 106, MATH 150, 152, 250, 305; ME 262; PHYS 141, 151L, 142, 152L; and ACS 101, with a grade point average of at least 2.0 for the above courses required for non-transfer students, transfer students from articulated programs, and Illinois resident transfer students; a grade point average of at least 2.25 for the above courses is required for other transfer students; and
- A grade of C or better is required in all lower-division math, science, and engineering courses.

Academic Status/Retention
Students must maintain the following standards. Students who fail to do so will be placed on probation in the major.

- Maintain a cumulative grade point average of at least 2.0.
- Maintain a term grade point average above 1.0 in any term.
- Maintain a cumulative grade point average of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative grade point average of at least 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- Receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be given the conditions required for removal from probation. If the conditions are not met, students are dropped from the major and may not enroll in upper-division School of Engineering courses without written departmental permission. After one year, students are eligible to re-apply for admission to the major. Students dropped from the major may direct a written appeal to the departmental academic standards committee.

Transfer
Transfer students should contact the Engineering Student Services office for a review of credentials and placement at least 30 days before the beginning of the term for which entry is desired. Credit will be reviewed using the following guidelines:
A minimum grade of C is required in all chemistry, computer science, mathematics, physics, and engineering science courses applied to major or minor requirements.

- 300- or 400-level engineering course requirements will not be considered for transfer unless completed within 10 years within an ABET-accredited engineering program.

General Education Requirements for the Major

University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline.

Degree Requirements, Bachelor of Science Civil Engineering

Breadth Physical Science Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>(_)_</td>
</tr>
<tr>
<td>MATH 150</td>
<td>MATH 152</td>
</tr>
<tr>
<td>PHYS 141</td>
<td>PHYS 151L</td>
</tr>
</tbody>
</table>

Breadth Life Science Course* USSR

Engineering Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE/MATH 106</td>
<td>(_)_</td>
</tr>
<tr>
<td>CE 204</td>
<td>CE 206**</td>
</tr>
<tr>
<td>CE 315</td>
<td>CE 330</td>
</tr>
<tr>
<td>CE 343</td>
<td>CE 354</td>
</tr>
<tr>
<td>CE 380</td>
<td>CE 415L</td>
</tr>
<tr>
<td>CE 416 or CE 455</td>
<td>ECE 210</td>
</tr>
<tr>
<td>ME 262</td>
<td>ME 310</td>
</tr>
<tr>
<td>3 CE Electives</td>
<td>(_)_</td>
</tr>
</tbody>
</table>

Sample Curriculum for the Bachelor of Science in Civil Engineering

### Fall Semester

**Year 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE 106 – Engineering Problem Solving</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 131 – Engineering Chemistry (BPS)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 135 – Engineering Chemistry Lab (EL)</td>
<td>1</td>
</tr>
<tr>
<td>MATH 150 – Calculus I (FQR)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 152 – Calculus II (BPS)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 141 – Physics I for Engineering (BPS)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 151L – University Physics Lab I (EL)</td>
<td>1</td>
</tr>
<tr>
<td>ACS 103 - Interpersonal Communication Skills (EUSC)</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 204 – Engineering Graphics &amp; CAD</td>
<td>3</td>
</tr>
<tr>
<td>CE 240 – Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 250 – Calculus III (BPS)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 142 – Physics II for Engineering (BPS)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 152L – University Physics Lab II (EL)</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

### Spring Semester

**Year 1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 – English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 152L – University Physics Lab II (EL)</td>
<td>1</td>
</tr>
<tr>
<td>3 CE Electives</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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</tr>
</tbody>
</table>

**Year 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 206 – Civil Engineering Surveying</td>
<td>2</td>
</tr>
<tr>
<td>CE 242 – Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>MATH 305 – Differential Equations I</td>
<td>3</td>
</tr>
<tr>
<td>ME 262 – Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 111 – Macroeconomics (BSS)</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>
Sample Curriculum for the Bachelor of Science in Civil Engineering cont.

**Fall Semester**

Year 3

CE 315 – Fluid Mechanics .................................................. 3
CE 342 – Structural Engineering I ....................................... 3
CE 330 – Engineering Materials ........................................... 2
CE 330L – Engineering Materials Lab .................................. 1
ME 310 – Thermodynamics ................................................. 3
CE 354 - Geotechnical Engineering (offered in fall) .......... 3
CE 354L - Geotechnical Engineering Lab .......................... 1
Total ....................................................................................... 16

Year 4

CE 416 – Engineering Hydrology (offered in fall) or
CE 455 – Foundation Design (offered in spring) ................. 3
CE 460 – Municipal Infrastructure Design ......................... 3
CE Elective I .......................................................................... 3
ECE 210 – Electrical Circuits .............................................. 3
PHIL 323 – Engineering, Ethics, & Professionalism (BHUM) 3
Preparation for Fundamental of Engineering Exam .......... 0
Total ....................................................................................... 15

**Spring Semester**

Year 3

CE 343 – Structural Engineering II .................................... 3
CE 376 – Transportation Engineering ................................. 3
CE 380 – Environmental Engineering ................................. 3
STAT 380 – Statistics for Applications (BICS) .................... 3
Breadth Fine & Performing Arts (BFPA) .............................. 3
Interdisciplinary Studies (IS)/Global Cultures (EGC) ....... 3
Total ....................................................................................... 18

Year 4

CE 415L – Applied Fluid Mechanics Lab ......................... 1
CE 493 – Engineering Design ............................................. 3
CE Elective II ......................................................................... 3
IE 345 – Engineering Economic Analysis .......................... 3
Health Experience (EH) ......................................................... 0/2
Total ....................................................................................... 13-15

**Graduation Requirements**

A cumulative grade point average of 2.0 or higher is required for courses taught in the School of Engineering; a cumulative grade point average of 2.0 or higher is required for civil engineering courses numbered above 299; and students must complete a senior assignment included as part of CE 493 Engineering Design. In addition to fulfilling department requirements, students must complete all University requirements for graduation.

**Computer Science**

Engineering Building, Room 2054
www.cs.siue.edu

**Professors**

Fujinoki, Hiroshi, Ph.D., 2001, University of Southern Florida
Weinberg, Jerry B., Ph.D., 1996, Vanderbilt University
White, William W., Ph.D., 1989, Ohio State University

**Associate Professors**

Bouvier, Dennis J., Ph.D., 1994, University of Louisiana Lafayette
Ercal, Gunes, Ph.D., 2008, University of California - Los Angeles
Mayer, Gary R., Ph.D., 2009, Arizona State University
McKenney, Mark, Ph.D., 2008, University of Florida
Yu, Xudong W., Ph.D., 1992, Vanderbilt University

**Assistant Professors**

Crk, Igor, Ph.D., (Chair), 2010, University of Arizona
Gamage, Thoshitha, Ph.D., 2011, Missouri University of Science and Technology

**Instructors**

Klein, Steven, MS, 1999, Southern Illinois University Edwardsville
Tornaritis, Socratis, MS, 1996, Southern Illinois University Edwardsville

**Program Description**

The Department of Computer Science offers two undergraduate degree programs to facilitate entry into this vibrant discipline. The Bachelor of Science curriculum includes a solid core of software engineering, computer architecture, algorithms, data structures, user-interface design, and operating systems courses; culminating in a two-semester software development project. In addition, this degree program contains a broad spectrum of mathematics, laboratory science, and elective computer science courses to fortify the core’s foundation.

The Bachelor of Arts curriculum affords students the opportunity to specialize their studies by supplementing the core computing curriculum required for the Bachelor of Science degree program with a minor, or a major, in another discipline.

**Career Opportunities**

Computer Science is the study of information and the processing, storage, retrieval and
use of information. As such, a degree in Computer Science offers career opportunities in industries as varied as computer game development to medicine and healthcare. Contrary to the stereotype of a “computer programmer,” a career in computer science usually involves extensive interaction with software development teams, as well as close collaboration with clients and colleagues from every conceivable discipline. The demand for graduates with an undergraduate degree in Computer Science remains high, with urgent needs for software engineers to keep pace with both hardware advances and the needs of business and consumers.

In addition to various opportunities to participate in software development teams within the undergraduate curriculum in Computer Science, students may apply for internships and cooperative education programs with industry to accumulate some real-world experience.

**Degree Programs**
Bachelor of Arts, Computer Science
Bachelor of Science, Computer Science

**Program Overview and General Department Information**

**Admission**
To be admitted to the Bachelor of Science or Bachelor of Arts program, students must:

- complete all Academic Development courses required by the University.
- complete any courses required to address high school deficiencies.
- complete MATH 120, College Algebra (or high school equivalent) with a grade of C or better.
- attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

**Retention**

- maintain a cumulative grade point average of 2.0.
- maintain a term grade point average above 1.0 in any term.
- maintain a cumulative grade point average of 2.0 in all mathematics and science courses.
- maintain a cumulative grade point average of at least a 2.0 in courses taught in the School of Engineering.
- maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students failing to meet the above standards may be conditionally retained. Failure to meet the conditions established by the department will result in termination from the major and ineligibility to enroll in upper division School of Engineering courses without written departmental permission. After one year, students are eligible to reapply for admission to the major. Students dropped from the major may direct a written appeal to the department’s academic standards committee.

**Transfer**
Transfer students should contact Engineering Student Services for a review of credentials and placement at least 30 days before the beginning of the term for which entry is desired. Credit will be reviewed using the following guidelines:

- A minimum grade of C is required in all chemistry, computer science, mathematics, physics, and engineering science courses applied to major or minor requirements.
- 300- or 400-level engineering course requirements will not be considered for transfer unless completed within 10 years in an ABET-accredited program.

**General Education Requirements for the Major**
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements, all computer science majors are required to complete the following:

- ENG 101, ENG 102, ACS 103, RA 101 and MATH 150 (FQR)
- For the B.S. program, eight lecture courses in life, physical or social science including two labs
- For the B.A. program, eight courses in fine & performing arts and humanities including two semesters of the same foreign language

**Degree Requirements B.A.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 111</td>
<td>CS 140</td>
</tr>
<tr>
<td>CS 234</td>
<td>CS 240</td>
</tr>
<tr>
<td>CS 314</td>
<td>CS 321</td>
</tr>
<tr>
<td></td>
<td>CS 325</td>
</tr>
</tbody>
</table>
Sample Curriculum for the Bachelor of Science in Computer Science

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>CS 111 – Concepts of Computer Science (BICS)</td>
<td>CS 150 – Introduction to Computing II</td>
</tr>
<tr>
<td>CS 140 – Introduction to Computing I</td>
<td>ENG 102 – English Composition II</td>
</tr>
<tr>
<td>ENG 101 – English Composition</td>
<td>RA 101 – Reasoning &amp; Argumentation</td>
</tr>
<tr>
<td>MATH 150 – Calculus I (FQR)</td>
<td>MATH 152 – Calculus II (BPS)</td>
</tr>
<tr>
<td>ACS 103 - Interpersonal Communication Skills (EUSC)</td>
<td>MATH 224 – Discrete Mathematics (BPS)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

| **Year 2**                                        | **Year 2**                                          |
| CS 234 – Database and Web System Development      | CS 150 – Intro to Computer Organization & Architecture|
| CS 240 – Introduction to Computing III            | MATH Elective                                      |
| Laboratory Science Sequence I (BPS, EL)           | MATH Elective                                      |
| Breath Fine & Performing Arts (BFPA)              | Laboratory Science Sequence II (BPS, EL)           |
| Breadth Humanities (BHUM)                         | STAT 380 - Statistics for Applications (BICS)       |
| **Total**                                         | **Total**                                           |
|                                                  | 17                                                  |

| **Year 3**                                        | **Year 3**                                          |
| CS 321 – Human-Computer Interaction Design        | CS 325 – Software Engineering                       |
| CS 340 – Algorithms and Data Structures           | CS 360 – Ethical and Social Implications of Computing|
| CS 314 – Operating Systems                        | CS 330 - Programming Languages                      |
| Lab Science Elective                              | Breadth Life Science (BLS)                         |
| **Total**                                         | Interdisciplinary Studies                           |
|                                                   | **Total**                                           |
|                                                   | 14                                                  |

| **Year 4**                                        | **Year 4**                                          |
| CS 425 – Senior Project: Software Design          | CS 499 – Senior Project: Software Implementation    |
| CS 447 – Networks and Data Communications          | CS Elective III                                     |
| CS Elective I                                    | CS Elective IV                                     |
| CS Elective II                                   | Life, Physical or Social Science/Health Experience (EH), Life, Physical or Social Science/Experience United States Culture (EUSC) |
| Breadth Social Science (BSS)/Experience Global    |                                                    |
| Cultures(EGC)                                    |                                                    |
| **Total**                                         | **Total**                                           |
|                                                   | 15                                                  |

One Computing Elective from: (Select one course)

- CS 382
- CS 423
- CS 438
- CS 482
- MATH 465

One two-semester foreign language sequence (101-102)
One Minor (or Second Major)

**Degree Requirements B.S.**

<table>
<thead>
<tr>
<th>CS 111</th>
<th>CS 140</th>
<th>CS 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 234</td>
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<tr>
<td>CS 314</td>
<td>CS 321</td>
<td>CS 325</td>
</tr>
<tr>
<td>CS 330</td>
<td>CS 340</td>
<td>CS 360</td>
</tr>
</tbody>
</table>

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One Math Elective (MATH 250, 321, or 423)
One Laboratory Science Sequence (PHYS 141/151L-142/152L or CHEM 121A/125A-121B/125B or CHEM 131A/135A-131B/135B).
One Additional Science Lab Elective (BIOL 150, CHEM 121A/125A, CHEM 131A/135A, PHYS 141/151L, or PHYS 201/201L).
Four Computing Electives from: CS 382, CS 423, CS 434, CS 438, CS 454, CS 456, CS 482, CS 490, CS 495, ECE 381, ECE 482, ECE 483, or MATH 465.
## Sample Curriculum for the Bachelor of Arts in Computer Science

### Fall Semester

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<thead>
<tr>
<th>Year</th>
<th>Course</th>
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<tbody>
<tr>
<td>1</td>
<td>CS 111 – Concepts of Computer Science (BICS)</td>
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<tr>
<td></td>
<td>CS 140 – Introduction to Computing I</td>
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<tr>
<td></td>
<td>EN 101 – English Composition</td>
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<td></td>
<td>MATH 125 – Pre-calculus with Trigonometry (BPS)</td>
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<td>ACS 103 - Interpersonal Communication Skills (EUSC)</td>
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<th>Year</th>
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<tr>
<td>2</td>
<td>CS 240 – Introduction to Computing III</td>
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<td>MATH 224 – Discrete Mathematics (BPS)</td>
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<td></td>
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<td>Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)</td>
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<td>Foreign Language 101</td>
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<th>Year</th>
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<tr>
<td>3</td>
<td>CS 321 – Human-Computer Interaction Design</td>
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<td>CS 340 - Algorithms and Data Structures</td>
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<td>CS 314 – Operating Systems</td>
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<tbody>
<tr>
<td>4</td>
<td>CS 330 – Programming Languages</td>
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<td>CS 425 – Senior Project: Software Design</td>
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<td>CS 447 - Networks and Data Communications</td>
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### Spring Semester

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<tbody>
<tr>
<td>1</td>
<td>CS 150 – Introduction to Computing II</td>
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<td>ENG 102 – English Composition II</td>
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<td></td>
<td>RA 101 - Reasoning and Argumentation</td>
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<td>MATH 150 – Calculus I (QR)</td>
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<td>Social Science Breadth (BSS)</td>
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<th>Year</th>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>2</td>
<td>CS 234 – Database and Web System Development</td>
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<tr>
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<td>CS 286 – Intro to Comp Organization &amp; Architecture</td>
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<td>Health Experience (EH)</td>
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<td>STAT 244 - Statistics</td>
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<td>Foreign Language 102 (EGC)</td>
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<table>
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<th>Year</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>3</td>
<td>CS 325 – Software Engineering</td>
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<td></td>
<td>CS 360 - Ethical and Social Implications of Computing</td>
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<td>Interdisciplinary Studies Course</td>
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<th>Year</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>CS 499 – Senior Project: Software Implementation</td>
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<td></td>
<td>CS Elective</td>
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<td>Fine &amp; Performing Arts or Humanities</td>
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<td>Unrestricted/Minor Elective</td>
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<tr>
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</table>

### Minor Requirements

- CS 111 – Concepts of Computer Science
- CS 140 – Introduction to Computing I
- CS 150 – Introduction to Computing II
- CS 240 – Introduction to Computing III
- CS 286 – Introduction to Computer Organization & Architecture

Two additional courses from the following list:

All courses must be completed with a minimum grade of C.

At least six semester hours must be earned at SIUE.

### Graduation Requirements

- Complete all general education and specific program requirements.
- Complete at least 12 hours of computer science credits at SIUE in courses numbered above 299 with a cumulative GPA of 2.0 or above.
- Have a GPA of 2.0 or above in all computer science courses numbered above 299
- Complete at least 6 hours of credit in major courses numbered above 299 at SIUE in the two years preceding graduation.
- For B.A. students, complete an undergraduate minor or second major in another discipline.
- File an Application for Graduation by the first day of the term in which you plan to graduate.

### Construction

Engineering Building, Room 3052
siue.edu/engineering/construction

### Associate Professors

Gordon, Chris, (Associate Dean), Ph.D., 2006, Carnegie Mellon University
Grinter, Mark, (Chair), M.S., 2008,
Program Description
The construction management program blends construction, business, and engineering coursework to provide graduates with the knowledge and skills necessary to coordinate the multifaceted aspects of the construction industry. Coursework presents basic scientific principles augmented by business and engineering practices and procedures.

Career Opportunities
The construction industry is one of the largest components of the U.S. economy. The scope of construction ranges from building renovation to mega-projects with total costs in the billions of dollars. The industry’s adaptation to continuing changes in management systems and emerging technologies produce a need for construction professionals trained in the managerial and scientific techniques of construction.

Degree Programs
Bachelor of Science, Construction Management
Specialization available in Land Surveying
Post-Baccalaureate Certificate in Integrative Studies in Transportation Engineering and Construction Management

Program Overview and General Department Information
Admission
To be admitted to the Bachelor of Science program, students must:
- Complete all Academic Development courses required by the University.
- Complete any courses required to address high school deficiencies.
- Complete MATH 120, College Algebra (or high school equivalents) with a grade of C or better.
- Attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

Retention
Student must meet the following standards. Students who fail to do so will be placed on probation in the major.
- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.
- Maintain a cumulative grade point average of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative grade point average of at least 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in courses taught in the School of Business.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- Receive no more than two failure grades, incompletes, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be informed of the conditions required for removal from probation. If the conditions are not met, students are dropped from the major and may not enroll in construction courses without written departmental permission. After one year, students are eligible to re-apply for admission to the major. Students dropped from the major may direct a written appeal to the department’s academic standards committee.

General Education Requirements for the Major
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. While fulfilling University general education requirements all construction management majors are required to complete the following:

Breadth-Physical Science (BPS) Courses
CHEM 120  CHEM 124a  MATH 150  MATH 152
PHYS 141  PHYS 151L

Construction Courses
CNST 120  CNST 210  CNST 211  CNST 241  SURV 264
CNST 301/L  CNST 321  CNST 332  CNST 341
CNST 351  CNST 353  CNST 403  CNST 411
CNST 451  CNST 451L  CNST 452  CNST 470

Technical Electives
### Sample Curriculum for the Bachelor of Science in Construction Management

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>CNST 120 – Introduction to Construction. ........................ 2</td>
<td>Experience Health (EH) .................................... 0/3</td>
</tr>
<tr>
<td>ENG 101 – English Composition I ......................... 3</td>
<td>ENG 102 – English Composition II ................................ 3</td>
</tr>
<tr>
<td>MATH 150 – Calculus I (FQR) .............................. 5</td>
<td>MATH 152 – Calculus II (BPS) ................................ 5</td>
</tr>
<tr>
<td>ECON 111 – Macroeconomics (BSS) ....................... 3</td>
<td>ECON 112 – Microeconomics (BSS) ............................ 3</td>
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<tr>
<td>CHEM 120a – Gen, Org, and Biological Chemistry (BPS) .... 3</td>
<td>ACS 103 - Interpersonal Communication Skills (EUSC) .... 3</td>
</tr>
<tr>
<td>CHEM 124a – Gen, Org, and Biological Chem Lab (EL) .... 1</td>
<td>Total .................................................. 14/17</td>
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</tr>
<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
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<tr>
<td>CNST 210 – Building Construction Materials &amp; Methods ........ 3</td>
<td>CNST 211 - Civil Construction Mat. &amp; Methods ............ 3</td>
</tr>
<tr>
<td>STAT 244 – Statistics (BICS) ....................... 4</td>
<td>CNST 241 – Statics and Mechanics of Solids ............... 4</td>
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<td>PHYS 141 – Physics 1 for Engineering (BPS) .......... 3</td>
<td>ACCT 210 – Managerial Accounting ........................ 3</td>
</tr>
<tr>
<td>PHYS 151L – University Physics Lab I (EL) ............ 1</td>
<td>Breadth Fine &amp; Performing Arts (BFPA) ................ 3</td>
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<tr>
<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
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<tr>
<td>CNST 351 – Structural Systems ................................ 3</td>
<td>CNST 301/L – Soils ......................................... 4</td>
</tr>
<tr>
<td>CNST 332 – Mechanical Systems / HVAC .................... 3</td>
<td>CNST 321 – Electrical Systems ............................ 3</td>
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<tr>
<td>ACCT 340 – Business Law for Accountants ............... 3</td>
<td>CNST 353 – Computer Applications in Construction ........ 3</td>
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<td><strong>Year 4</strong></td>
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<tr>
<td>CNST 403 – Planning and Scheduling ........................ 3</td>
<td>CNST 411 – Construction Contracts ...................... 3</td>
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<tr>
<td>CNST 451 – Estimating and Bidding ........................ 3</td>
<td>CNST 452 – Construction Management ..................... 4</td>
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<td>CNST 451L – Estimating and Bidding Lab .................. 1</td>
<td>CNST 470 – Internship .................................... 3</td>
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<td>Technical Elective I ..................................... 3</td>
<td>IS 401 – Business and Society (EGC) .................... 3</td>
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<td>Technical Elective II .................................... 3</td>
<td>Technical Elective III ................................... 3</td>
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<td>PHIL 323 - Engineering Ethics &amp; Professionalism ....... 3</td>
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<td><strong>Total: 127 units</strong></td>
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*These courses fulfill the requirements for a minor in business administration. To view a sample program, visit the Department of Construction website at siue.edu/engineering/construction.
Sample Curriculum for the Bachelor of Science in Construction Management with Specialization in Land Surveying

### Fall Semester

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<tbody>
<tr>
<td>CNST 120 – Introduction to Construction</td>
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<td>ENG 101 – English Composition I</td>
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<td>MATH 150 – Calculus I (FQR)</td>
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<tr>
<td>ECON 111 – Macroeconomics (BSS)</td>
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<td>CHEM 120a – Gen, Org, and Biological Chemistry (BPS)</td>
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<td>CHEM 124a – Gen, Org, and Biol Chemistry Lab (EL)</td>
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<tr>
<td>CNST 210 – Building Construction Materials &amp; Methods</td>
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<td>ACCT 200 – Fundamentals of Financial Accounting</td>
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<tr>
<td>PHYS 141 – Engineering Physics I (BPS)</td>
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<td>PHYS 151L – University Physics Lab (EL)</td>
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<td>STAT 244 – Statistics (BICS)</td>
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<tbody>
<tr>
<td>SURV 310 - Legal Aspects of Surveying</td>
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<td>CNST 332 – Mechanical Systems / HVAC</td>
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<td>CNST 351 – Structural Systems</td>
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<tr>
<td>FIN 320 – Financial Management and Decision Making</td>
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<td>Breadth Life Science (BLS)</td>
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<td>ACCT 340 - Business Law for Accountants</td>
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**Summer Session**

| CNST 470 - Internship | 3 |
| MGMT 330 – Understanding the Bus. Environment | 3 |
| **Total** | 6 |

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<tbody>
<tr>
<td>CNST 403 – Planning and Scheduling</td>
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<td>SURV 482 - Advanced Survey Systems</td>
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<td>PHIL 323 - Engineering Ethics and Professionalism</td>
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**Surveying Electives:**

| CNST 415 – Land Development | 3 |
| SURV 470 - Construction Internship | 3 |
| GEOG 418 – GIS | 3 |
| GEOG 422 - Remote Sensing | 3 |
| GEOG 423 – Computer Mapping | 3 |
| **Total** | 17 |

### Spring Semester

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<tbody>
<tr>
<td>Experience Health (EH)</td>
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<td>ENG 102 – English Composition II</td>
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<td>ACS 103 - Interpersonal Communication Skills (EUSC)</td>
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<thead>
<tr>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td>CNST 211 - Civil Construction Mat. &amp; Methods</td>
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<td>CNST 241 – Statics and Mechanics of Solids</td>
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<td>SURV 264 – Surveying Fundamentals</td>
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<td>ACCT 210 – Managerial Accounting</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CNST 301 – Soils</td>
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</tr>
<tr>
<td>CNST 321 – Electrical Systems</td>
<td>3</td>
</tr>
<tr>
<td>CNST 341 – Plans and Specifications</td>
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<td>CNST 353 – Computer Applications in Construction</td>
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<tr>
<td>CNST 364 - Boundary Surveying</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
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</thead>
<tbody>
<tr>
<td>CNST 411 – Construction Contracts</td>
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<tr>
<td>CNST 452 – Construction Management</td>
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<tr>
<td>CNST 484 – Survey Apps &amp; Comp</td>
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<tr>
<td>IS 401 Business and Society (EGC)</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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### Minor Requirements

Twenty-one semester hours are required for a minor in construction management. The courses are to be selected from the construction curriculum with approval from the chair of Construction Department. A cumulative grade point average of 2.0 or higher is required for construction management courses.

### Graduation Requirements

Construction students must meet all University requirements for graduation and the following construction management program requirements:

- Earn a cumulative grade point average above 2.0 in all construction courses, and
- Earn a cumulative grade point average above 2.25 in all business courses to qualify for a minor in business administration.
- Complete the construction management senior assignment.
Electrical & Computer Engineering

Engineering Building, Room 3054
siue.edu/engineering/ece

Professors
Engel, George L, D.Sc., 1990, Washington University
Lozowski, Andy G., Ph.D., 1999, University of Louisville
Umbaugh, Scott E., Ph.D., 1989, University of Missouri Rolla

Associate Professors
Noble, Brad, D.Sc., 2000, Washington University
LeAnder, Robert W, Ph.D., 2002, University of Illinois at Chicago
Shang, Ying, (Chair), Ph.D., 2006, University of Notre Dame

Assistant Professors
Klingensmith, Jon, Ph.D., 2003, Case Western Reserve University
Wang, Xin, Ph.D., 2011, Marquette University
York, Timothy, Ph.D., 2014, Washington University

Lab Manager/Lecturer
Muren, Steve, MS, 2000, Southern Illinois University Edwardsville

Adjunct Lecturers
Basler, Mike, MA, 1989, University of Missouri-Columbia

Program Description
Electrical engineering and computer engineering disciplines are concerned with the development and application of electrical and computer technology to enhance and enrich all life. Electrical and computer engineers, as part of this mission, are engaged in a wide variety of activities that include among other things:

- space exploration and remote sensing,
- process control and automation,
- automatic control systems for use in robotics, missiles, aircraft, and manufacturing plants,
- electric power generation and distribution, environmentally responsible generation and use of energy,
- audio- video- and data-communication systems, satellite communications,
- digital processing of signals and images using the computer,
- design and manufacturing of faster and more capable microprocessors for the computers of tomorrow,
- applications of technology in the healthcare field through computerized ultrasound, radiology, tomography and imaging systems, computer aided diagnosis and treatment, and tele-surgery.

The applications listed above require a solid foundation in mathematics and physics, thus requiring electrical and computer engineering students to go through a substantial set of courses in these areas. In addition, today’s engineers also must be aware of a wide variety of global, social, ethical, economic and environmental issues that are relevant to the systems they design and build. Our bachelor’s degree programs include courses and projects designed to build this awareness. The electrical and computer engineering program mission is consistent with the mission of the University and the School of Engineering. Program educational objectives and outcomes are available on the department website: siue.edu/engineering.

The department of Electrical and Computer Engineering has several well-equipped modern laboratories for computation, simulation and measurement. Individual laboratories to support elective courses in the areas of computers, control, digital signal processing, image processing, and power also are available to students.

Career Opportunities
Electrical and computer engineers find employment in a wide variety of manufacturing companies such as aerospace and aircraft, electric manufacturers, computer circuit (a.k.a. “chip”) manufacturers, and medical equipment manufacturers. They are employed in the fields of research, design, manufacturing and sales. Many public utilities, which include power companies and telephone companies, employ both computer engineers and electrical engineers. Other potential employers include oil companies, railroads, food processing plants,
chemical and biological laboratories, chemical plants, various branches of federal government, and many consulting engineering companies.

Degree Programs
Bachelor of Science, Electrical Engineering
Bachelor of Science, Computer Engineering

Program Overview and General Department Information

Admission
To be admitted to the Bachelor of Science program, students must:
- complete all Academic Development courses required by the University.
- complete any courses required to address high school deficiencies.
- complete MATH 120, College Algebra (or high school equivalents) with a grade of C or better.
- attain a cumulative grade point average of at least 2.0 (on a 4.0 scale).

Retention
- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.
- Maintain a cumulative grade point average of 2.0 in all mathematics and science courses.
- Maintain a cumulative grade point average of at least a 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- Receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be given the conditions required for removal from probation. If the conditions are not met, students are dropped from the major and may not enroll in upper-division School of Engineering courses without written departmental permission. After one year, students are eligible to re-apply for admission to the major. Students dropped from the major may direct a written appeal to the department’s academic standards committee.

Transfer
Transfer students should contact the associate dean of engineering for a review of credentials and placement at least 30 days before the beginning of the term for which entry is desired. Credit will be reviewed using the following guidelines:
- A minimum grade of C is required in all chemistry, computer science, mathematics, physics, and engineering science courses applied to major or minor requirements.
- 300- or 400-level engineering course requirements will not be considered for transfer unless completed within 10 years within an ABET-accredited engineering program.

General Education / Degree Requirements
University general education requirements are outlined in the General Education section of this catalog and included in the sample curriculum outline. The Bachelor of Science in Electrical Engineering requires completion of 128 hours. The Bachelor of Science in Computer Engineering requires completion of 129 hours. The requirements are as follows:

Foundations Courses
ENG 101  ENG 102  ACS 101
PHIL 323  MATH 150

Breadth-Physical Science Courses (35 or 33 hours)
CHEM 131  CHEM 121a
CHEM 135  CHEM 125a
MATH 250  MATH 355
MATH 152  MATH 355, MATH 224
PHYS 141  PHYS 151L
PHYS 152L
PHYS 142

1 & 2 Electrical Engineering (Math 355, 35 hours)
Computer Engineering (Math 224, 33 hours)

CHEM 121a and 125a may be substituted

Breadth
Fine Art & Performing Arts (3 hours)
Information & Communication in Society (3 hours)
Life Science (3 hours)

Breadth-Humanities (3 hours)
PHIL 323

Breadth Social Science Courses (3 hours)
ECON 111

Interdisciplinary Course (3 hours)

Major Requirements

Electrical Engineering
Engineering Courses (49 hours)
ECE 210  ECE 211  ECE 282
ECE 326  ECE 340  ECE 341
ECE 351  ECE 352  ECE 365
ECE 375  ECE 404  ECE 405
IE 345  IE 106  CS 140 or CS145

Non-ECE Technical Elective (3 hours) and ECE Electives (12 hours)
## Sample Curriculum for the Bachelor of Science in Electrical Engineering

### Fall Semester

**Year 1**
- CHEM 131 – Engineering Chemistry (BPS) ............................................ 4
- CHEM 135 – Engineering Chemistry Lab (EL) ................................. 1
- ENG 101 – English Composition I ......................................................... 3
- IE 106 - Engineering Problem Solving .............................................. 3
- MATH 150 – Calculus I (QR) ................................................................. 5

Total .................................................. 16

**Year 2**
- ECE 210– Circuit Analysis I ................................................................. 3
- CS 145 – Introduction to Computing I .................................................. 4
- MATH 250 – Calculus III (BPS) ............................................................ 4
- PHYS 142 – Physics II for Engineering (BPS) ...................................... 3
- PHYS 152L – University Physics Lab II (EL) ...................................... 1

Total .................................................. 14

**Year 3**
- ECE 326 – Electronic Circuits I ............................................................ 4
- ECE 351 – Signals and Systems ............................................................ 3
- ECE 352 – Stochastic Processes ........................................................... 3
- MATH 355 – Engineering Mathematics ............................................. 5
- Health Experience (EH) ................................................................. 0/2/2

Total .................................................. 15-17

**Year 4**
- ECE 341 – Electromechanical Energy Conv ...................................... 4
- ECE 404 – ECE Design ................................................................. 3
- ECE Elective I ................................................................. 3
- ECE Elective II ................................................................. 3
- PHIL 323 – Engineering, Ethics & Professionalism (BHUM) .......... 3

Total .................................................. 16

### Spring Semester

**Year 1**
- ENG 102 – English Composition II ..................................................... 3
- MATH 152 – Calculus II (BPS) .............................................................. 5
- PHYS 141 – Physics I for Engineering (BPS) ...................................... 3
- PHYS 151L – University Physics Lab I (EL) ..................................... 1
- ACS 103 – Interpersonal Communication Skills (EUSC) ............. 3

Total .................................................. 15

**Year 2**
- ECE 211 – Circuit Analysis II ........................................................... 4
- CS 282 – Digital Systems Design ..................................................... 4
- Breadth Fine & Performing Arts (BFPA) ........................................... 3
- MATH 305 – Differential Equations ................................................. 3
- ECON 111 - Macroeconomics (BSS) ............................................. 3

Total .................................................. 17

**Year 3**
- ECE 340 – Engineering Electromagnetics ...................................... 3
- ECE 365 – Control Systems ............................................................... 3
- ECE 375 – Introduction to Communications .................................... 3
- Non ECE Tech Elective ................................................................. 3
- Breadth Info & Communication in Society (BICS) ....................... 3
- Breadth Life Science (BLS) ............................................................. 3

Total .................................................. 18

**Year 4**
- ECE 405 – ECE Design Laboratory .................................................. 3
- ECE Elective III ................................................................. 3
- ECE Elective IV ................................................................. 3
- IE 345 – Engineering Economic Analysis ...................................... 3
- Interdisciplinary Studies (IS) ......................................................... 3

Total .................................................. 15
## Sample Curriculum for the Bachelor of Science in Computer Engineering

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
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<tr>
<td>CHEM 131 – Engineering Chemistry (BPS) .................................................. 4</td>
<td>CS 140 – Introduction to Computing I ........................................................ 4</td>
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<tr>
<td>CHEM 135 – Engineering Chemistry Lab (EL) ................................................. 1</td>
<td>ENG 102 – English Composition II .................................................................... 3</td>
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<tr>
<td>ENG 101 – English Composition I ..................................................................... 3</td>
<td>MATH 152 – Calculus II (BPS) ......................................................................... 5</td>
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<tr>
<td>IE 106 - Engineering Problem Solving ............................................................ 3</td>
<td>PHYS 141 – Physics I for Engineering (BPS) ..................................................... 3</td>
</tr>
<tr>
<td>MATH 150 – Calculus I (QR) .............................................................................. 5</td>
<td>PHYS 151L – University Physics Lab I (EL) ...................................................... 1</td>
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<td><strong>Year 2</strong></td>
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<td>ECE 211 – Circuit Analysis II ................................................................. 4</td>
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<tr>
<td>CS 150 – Introduction to Computing II ....................................................... 3</td>
<td>CS 262 – Digital Systems Design .................................................................. 4</td>
</tr>
<tr>
<td>MATH 250 – Calculus III (BPS) ...................................................................... 4</td>
<td>CS 240 – Introduction to Computing III ....................................................... 3</td>
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<tr>
<td>PHYS 142 – Physics II for Engineering (BPS) ................................................ 3</td>
<td>MATH 305 – Differential Equations I .......................................................... 3</td>
</tr>
<tr>
<td>PHYS 152L – University Physics Lab II (EL) ................................................... 1</td>
<td>ACS 103 – Interpersonal Communication Skills (EUSC) .................................... 3</td>
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<td><strong>Total</strong> .......................................................................................... 14</td>
<td><strong>Total</strong> .................................................................................... 17</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>ECE 326 – Electronic Circuits I ................................................................. 4</td>
<td>Breadth Life Science (BLS) ........................................................................... 3</td>
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<tr>
<td>ECE 351 – Signals and Systems ...................................................................... 3</td>
<td>ECE 381 – Microcontrollers ........................................................................... 3</td>
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<td>CS 286 – Intro to Comp. Org .......................................................................... 3</td>
<td>ECE/CS Elective I ......................................................................................... 3</td>
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<tr>
<td>MATH 224 – Discrete Mathematics ................................................................... 3</td>
<td>ECON 111 – Macroeconomics (BSS) .................................................................. 3</td>
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<td><strong>Total</strong> .......................................................................................... 16</td>
<td>Breadth Fine &amp; Performing Arts (BFPA) .......................................................... 3</td>
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<tr>
<td><strong>Year 4</strong></td>
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<tr>
<td>ECE 404 – ECE Design .................................................................................... 3</td>
<td>ECE 405 – ECE Design Laboratory .................................................................... 3</td>
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<td>ECE/CS Elective II ......................................................................................... 3</td>
<td>ECE/CS Elective III ....................................................................................... 3</td>
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<td>CS 314 – Operating Systems ............................................................................ 3</td>
<td>CS 340 – Algorithms and Data Structures ....................................................... 3</td>
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<tr>
<td>Breadth Info &amp; Communication in Society (BICS) ............................................ 3</td>
<td>IE 345 – Engineering Economic Analysis ......................................................... 3</td>
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<td>PHIL 323 – Engineering, Ethics &amp; Professionalism (BHUM) ............................... 3</td>
<td>Interdisciplinary Studies (IS) (EGC) ............................................................ 3</td>
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<tr>
<td>Health Experience (EH) .................................................................................. 0/2</td>
<td><strong>Total</strong> .................................................................................... 15</td>
</tr>
<tr>
<td><strong>Total</strong> .......................................................................................... 15/17</td>
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</table>

### Minor Requirements for Electrical Engineering

A minor in electrical engineering requires 24 semester hours. The courses required are ECE 210, 211, 282, 326, 340, 351, 365. A cumulative grade point average of 2.0 or higher is required for courses.

### Minor Requirements for Computer Engineering

A minor in computer engineering requires 23 semester hours. The courses required are ECE 210, 211, 282, 351, 381, CS 150, CS 240. A cumulative grade point average of 2.0 or higher is required for these courses.

### Graduation Requirements for Electrical Engineering and Computer Engineering Programs

- satisfactory completion of all University requirements for graduation
- a cumulative grade point average of 2.0 or higher for courses taught in the School of Engineering
- a grade point average of 2.0 or higher in electrical engineering and computer science courses numbered above 299
- completion of at least 30 hours of the required electrical engineering and computer science courses at SIUE and
- completion of senior assignment contained in ECE 404 and 405.
Degree Programs
Bachelor of Science, Industrial Engineering
Specialization available in Manufacturing Engineering
Bachelor of Science, Mechanical Engineering
Bachelor of Science, Mechatronics and Robotics Engineering

Industrial Engineering
Industrial engineers (IEs) design, produce, and deliver quality products and services to customers at affordable prices at the right time. IEs design, optimize and install integrated systems that contain people, materials, information, equipment and energy. These integrated systems can be manufacturing plants, hospitals, distribution centers, and financial institutions. To design and implement these integrated systems, IEs are equipped with knowledge and skills in engineering and management.

IEs are uniquely poised to work in a variety of industries. Industrial engineering education offers the best of both worlds: engineering and business. The most distinctive aspect of IE is the flexibility it offers; whether it is designing a new factory, shortening a roller coaster line, streamlining an operating room in hospitals, distributing products worldwide, or manufacturing superior automobiles, IEs will be in charge and can do the job most efficiently.

IEs make systems more efficient by:
- Designing and/or improving processes
- Developing tools/methods/processes for better product and quality service
- Reducing costs and using resources more environmentally consciously
- Providing better customer service and product quality
- Making the workplace safer and the work itself more rewarding

In an increasingly competitive world, the need for industrial engineers is growing. IEs are the professionals trained specifically to improve productivity and quality using an integrated systems approach. They work to eliminate waste of valuable resources such as time, money, materials, energy, and natural resources. This is why many IEs are promoted into management positions.

Career Opportunities
IEs are specifically prepared to function as problem solvers, innovators, coordinators, and agents of change. IEs practice in all
levels of manufacturing industries, service industries, and government agencies. In service industries and government agencies, the same IE skills used to design manufacturing systems are found to be useful in designing better healthcare systems, providing fast and more accurate mail/parcel delivery, improving airline operations, and controlling supply and product distribution systems. The complexity of modern industrial and service organizations and the emphasis on increased efficiency and productivity have led to a growing need for IE skills, and therefore, an increased demand for IE graduates. This increased demand recognizes the versatility of IE being responsive to the challenges of a rapidly changing society. The demand for IEs far exceeds the number of students graduating from industrial engineering programs. Many IEs are employed in entertainment industries, shipping and logistics businesses, financial institutions, and healthcare organizations.

Enrollment in Upper-Division Industrial Engineering Courses
The requirements for enrollment in upper-division industrial and manufacturing engineering courses are:

- satisfactory completion of all University and School of Engineering admission requirements;
- an approved application for enrollment in upper-division Engineering courses;
- satisfactory completion of the lower-division (core) courses CE 204, 240, 242; CHEM 131, 135 (or CHEM 121a, 125a); CS 145 (recommended) or CS 140; ECE 210; ENG 101, 102; MATH 150, 152, 250, 305 or 321; ME 262; PHYS 141, 151L, 142, 152L; and ACS 101; with a grade point average of at least 2.0 for the above courses is required for non-transfer students, transfer students from articulated programs, and Illinois resident transfer students; a grade point average of at least 2.25 for the above courses is required for other transfer students.

Academic Status/Retention
Students must meet the following standards. Students who fail to do so will be placed on probation in the major.

- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.

- Maintain a cumulative grade point average of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative grade point average of at least a 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- Receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be given the conditions required for removal from probation. If the conditions are not met, students are dropped from the major and may not enroll in upper-division School of Engineering courses without written departmental permission. After one year, students are eligible to reapply for admission to the major. Students dropped from the major may direct a written appeal to the department’s academic standards committee.

Degree Requirements, Bachelor of Science Industrial Engineering

Breadth-Physical Science Courses
CHEM 131  CHEM 135+  MATH 152  MATH 250
MATH 305  MATH 321  PHYS 141  PHYS 151L
PHYS 142  PHYS 152L
+ CHEM 125a may be substituted

Engineering & Computer Science Courses
CE 204  CE 240  CE 242  CS 145
ECE 210  IE 106  IE 135  IE 345
IE 370  IE 375  IE 415  IE 451
IE 465  IE 468  IE 470  IE 476
IE 483  IE 494  IE 490
IE Electives* (9 hours)  ME 262

Breadth
Fine & Performing Arts (3 hours)
Life Science (3 hours)

Breadth Info & Communication in Society Course
STAT 380

Breadth-Humanities Course (3 hours)
PHIL 323

Breadth-Social Science Courses
ECON 111

Foundations
ENG 101  ENG 102  RA 101  ACS 101
MATH 150 (FQR)

The following Experiences are also required: New Freshman Seminar(NFS), Health (EH), Global Cultures (EGC) and United States Cultures (EUSC)

Interdisciplinary Studies Course
Suggested: IS 352 or IS 375
## Sample Curriculum for the Bachelor of Science in Industrial Engineering

### Fall Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>IE 106 – Engineering Problem Solving</td>
<td>3</td>
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<tr>
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<td>CHEM 131 – Engineering Chemistry (BPS)</td>
<td>4</td>
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<td>CHEM 135 – Engineering Chemistry Lab (EL)</td>
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<td></td>
<td>ENG 101 – English Composition I</td>
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<td>MATH 150 – Calculus I (QR)</td>
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### Year 2

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<tr>
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<tbody>
<tr>
<td>CE 204 – Engineering Graphics &amp; CAD</td>
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<tr>
<td>CE 240 – Statics</td>
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<td>MATH 250 – Calculus III (BPS)</td>
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<tr>
<td>PHYS 142 – University Physics II (BPS)</td>
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<td>PHYS 152L – University Physics Lab II (EL)</td>
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### Year 3

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<tr>
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<tbody>
<tr>
<td>IE 335 – Intro to Information Processing Systems</td>
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<tr>
<td>IE 345 – Engineering Economics Analysis</td>
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<tr>
<td>STAT 380 - Statistics for Application (BICS)</td>
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<tr>
<td>IE 370 – Manufacturing Processes</td>
<td>3</td>
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<tr>
<td>IE 375 – Three Dimensional Modeling in Product Design</td>
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### Year 4

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<tbody>
<tr>
<td>IE 468 – Operations Research – Simulation</td>
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<tr>
<td>IE 476 – Plantwide Process Control</td>
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<tr>
<td>IE 483 – Production Planning &amp; Control</td>
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<td>IE 484 – Facilities Planning</td>
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<td>IE Elective I</td>
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### Spring Semester

<table>
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<tr>
<th>Year</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>1</td>
<td>ENG 102 – English Composition II</td>
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<td>MATH 152 – Calculus II (BPS)</td>
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<td>PHYS 141 – University Physics I (BPS)</td>
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<td>PHYS 151L – University Physics Lab I (EL)</td>
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<td>ACS 103 - Interpersonal Comm Skills (EUSC)</td>
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### Year 2

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<tbody>
<tr>
<td>CE 242 – Mechanics of Solids</td>
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<td>CS 145 – Introduction to Computing for Engineers</td>
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<tr>
<td>ECE 210 – Introduction to Electrical Circuits</td>
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<tr>
<td>MATH 305 – Differential Equations I or MATH 321 Linear Algebra (BPS)</td>
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<tr>
<td>ME 262 – Dynamics</td>
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<td>ECON 111 – Principles of Macroeconomics (BSS)</td>
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### Year 3

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<tr>
<td>IE 451 – Methods Design &amp; Work Measurements</td>
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<tr>
<td>IE 465 – Design &amp; Control of Quality Systems</td>
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<td>IE 470 – Manufacturing Systems</td>
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<td>IE Elective III</td>
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<td>PHIL 323 – Engineering Ethics, &amp; Professionalism (BHUM)</td>
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<td>Interdisciplinary Studies (IS)/Experience Global Cultures (EGC)</td>
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## Graduation Requirements

Degree requirements include the following:

- A cumulative grade point average of 2.0 or higher for engineering courses
- A cumulative grade point average of 2.0 or higher for Industrial and Manufacturing Engineering courses numbered above 299
- Completion of all departmental and University requirements
- Completion of the Senior Assignment with IE 490, Integrated Engineering Design, and
- A grade of C or better for IE 345, 468 and 483

## Minor Requirements for Industrial Engineering

Twenty-one semester hours are required for the industrial engineering minor, including IE 345, 370, 415 and 451 and STAT 380. The remaining two courses are electives to be selected from the following four courses: IE 465, 468, 470, and 483. Other substitute electives are subject to approval by the chair/director of the industrial engineering program. A cumulative grade point average of 2.0 or higher is required for industrial engineering courses.

## Bachelor of Science in Industrial Engineering with Specialization in Manufacturing Engineering

If three IE electives are taken among the following list of IE courses on manufacturing, students will graduate with a Bachelor of Science in Industrial Engineering with Specialization in Manufacturing Engineering:

- IE 466 Engineering Metrology
- IE 475 CAD/CAM/CAE
- IE 478 Industrial Robotics
IE 488  Lean Production Systems
IE 492  Lean Six Sigma, Quality and Process Improvement
IE 492  3D Design and Structural Analyses using CATIA

Other substitute electives are subject to approval by the chair/director of industrial engineering.

**Mechanical Engineering**

Mechanical engineering is concerned with the generation and use of energy as well as with structures and motion in mechanical systems. The program of study prepares students to contribute to the profession by applying existing technologies to new problems as well as developing new technologies to solve existing problems. Mechanical engineers apply their knowledge and creative abilities to a diverse array of problems such as designing systems for operation at the bottom of the sea and in outer space, as well as for the hostile environments found in many industrial processes. Mechanical engineers examine the basic phenomena of fluid turbulence or superconductors and the characteristics of composite materials, develop earthquake-resistant nuclear power plants and other facilities, and examine alternative energy conversion techniques for mobile and central station use.

The mission of the mechanical engineering program is consistent with the mission of the University and the School of Engineering. The department assigns first priority to excellence in undergraduate education. The program’s educational objectives are dynamic and under continuous review by the program constituencies. These objectives are available on the department’s home page, siue.edu/engineering/me.

**Career Opportunities**

Upon graduation, mechanical engineers are prepared to contribute to society through professional practice in industry or government, or to continue their education through graduate study in engineering or applied sciences. Alternatively, they may choose to pursue a career in a related areas such as business, law, or medicine.

**Enrollment in Upper-Division Mechanical Engineering Courses**

The requirements for enrollment in upper-division mechanical engineering courses are:

- satisfactory completion of all University and School of Engineering admission requirements;
- an approved application for enrollment in upper-division engineering courses;
- satisfactory completion of the lower-division (core) courses CE 204, 240, 242; CHEM 131 (or 121a), 135 (or 125a); CS 145 or 140; ECE 210; ENG 101, 102; MATH 150, 152, 250, 305; ME 262; PHYS 141 (or 151), 151L, 142 (or 152), 152L; ACS 103 or ACS 101; and IE 106 or RA 101 with a grade point average of at least 2.0 for the above courses is required for non-transfer students, transfer students from articulated programs, and Illinois resident transfer students; a grade point average of at least 2.25 for the above courses is required for other transfer students;
- a grade point average of 2.0 or better in ME 262, CE 240, CE 242, and ECE 210 (both original and repeat grades are computed in this grade point average); and
- a grade of C or better in ENG 101, ENG 102, ME 262 and CE 240 or their equivalent.

Note: All grade point averages for the mechanical engineering program are computed using the original and repeat grades. Exceptional cases will be reviewed by the faculty on a case-by-case basis.

**Academic Status/Retention**

Students must meet the following standards. Students who fail to do so will be placed on probation in the major.

- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.
- Maintain a cumulative grade point average of at least 2.0 in all mathematics and science courses.
- Maintain cumulative grade point average of at least a 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.
- Receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be given the conditions required for removal from probation.
If the conditions are not met, the students are dropped from the major and may not enroll in upper-division School of Engineering courses without written departmental permission. After one year, students are eligible to reapply for admission to the major. Students dropped from the major may direct a written appeal to the department's undergraduate committee.

**Degree Requirements, Bachelor of Science Mechanical Engineering**

**Breadth - Physical Science Courses**
- CHEM 131 (or 121a)  CHEM 135 (or 125a)  MATH 152
- MATH 250  MATH 305  PHYS 141
- PHYS 151L  PHYS 142  PHYS 152L

**Breadth-Information & Communication in Society Course**
- STAT 380

**Breadth**
- Fine & Performing Arts (3 hours)
- Life Science (3 hours)

**Breadth-Humanities Course**
- PHIL 323

**Breadth-Social Science Course**
- ECON 111

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**Sample Curriculum for the Bachelor of Science in Mechanical Engineering**

### Fall Semester

**Year 1**
- IE 106 – Engineering Problem Solving ......................... 3
- CHEM 131 – Engineering Chemistry (BPS) ..................... 4
- CHEM 135 – Engineering Chemistry Lab (EL) ................. 1
- ENG 101 – English Composition I .................................. 3
- MATH 150 – Calculus I (BPS, FQR) ............................... 5
- Total .................................................. 16

**Year 2**
- CE 204 – Engineering Graphics & CAD .......................... 3
- CE 240 – Statics ........................................... 3
- MATH 250 – Calculus III (BPS) .................................. 4
- PHYS 142 – Physics II for Engineering (BPS) ................. 3
- PHYS 152L – University Physics Laboratory II (EL) .......... 1
- Total .................................................. 14

**Year 3**
- ME 310 – Thermodynamics I ...................................... 3
- ME 350 – Dynamics of Mechanisms ............................... 3
- ME 354 – Numerical Simulation .................................. 1
- ME 370 – Materials Engineering .................................. 3
-STAT 380 – Statistics for Applications (BICS) .................. 3
- Breadth Fine & Performing Arts (BFPA) .......................... 3
- Total .................................................. 16

### Spring Semester

**Year 1**
- ENG 102 – English Composition II ............................... 3
- ACS 103 - Interpersonal Communication Skills (EUSC) ........ 3
- MATH 152 – Calculus II (BPS) .................................. 5
- PHYS 141 – Physics I for Engineering (BPS) .................. 3
- PHYS 151L – University Physics Laboratory I (EL) .......... 1
- Total .................................................. 18

**Year 2**
- ME 262 – Dynamics ............................................. 3
- CE 242 – Mechanics of Solids ................................... 3
- ECE 210 – Electrical Circuits ................................... 3
- ECON 111 – Principles of Macroeconomics (BSS) ........... 3
- MATH 305 – Differential Equations I ............................ 3
- CS 145 – Intro to Computing for Engineers .................. 3
- Application for Upper Division .................................. 0
- Total .................................................. 18

**Year 3**
- ME 312 – Thermodynamics II .................................... 3
- ME 315 – Fluid Mechanics ....................................... 3
- ME 356 – Dynamic Systems Modeling ............................ 3
- ME 380 – Design of Machine Elements .......................... 3
- ME 380L – Stress Laboratory .................................... 1
- PHIL 323 – Engineering, Ethics, & Professionalism (BHUM) .. 3
- Total .................................................. 16
Sample Curriculum for the Bachelor of Science in Mechanical Engineering cont.

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>Year 4</td>
<td>Year 4</td>
</tr>
<tr>
<td>ME 410 – Heat Transfer .................................. 3</td>
<td>ME 356L – Dynamical Systems Laboratory ................. 1</td>
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<tr>
<td>ME 410L – Thermal Fluid Laboratory .......................... 1</td>
<td>ME 484 – Mechanical Engineering Design II ............ 2</td>
</tr>
<tr>
<td>ME 482 – Mechanical Engineering Design I .......................... 2</td>
<td>ME Elective II ............................................. 3</td>
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<td>ME Elective I .................................................. 3</td>
<td>ME Elective III ............................................. 3</td>
</tr>
<tr>
<td>IE 345 – Engineering Economic Analysis .......................... 3</td>
<td>Breadth Life Science (BLS) ............................... 3</td>
</tr>
<tr>
<td>Interdisciplinary Studies (IS)/Global Cultures (EGC) ............. 3</td>
<td>Engineering Elective ................................. 3</td>
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<td>Health Experience (EH) ......................................... 0/3</td>
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<tr>
<td>Total ................................................. 15/18</td>
<td>Total .................................................. 15/18</td>
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</tbody>
</table>

Graduation Requirements
Degree requirements include the following:
- a cumulative grade point average of 2.0 or higher in engineering courses;
- a cumulative grade point average of 2.0 or higher is required for mechanical engineering courses numbered above 299;
- completion of all departmental and University requirements; and
- completion of a senior assignment as part of ME 482 and 484 Mechanical Engineering Design I and II.

Minor Requirements
Eighteen semester hours are required for a minor in mechanical engineering, including ME 262 and 310. Remaining courses are electives to be selected from among the mechanical engineering courses subject to approval by the chair of mechanical engineering. A cumulative grade point average of 2.0 or higher is required for mechanical engineering courses.

Mechatronics and Robotics Engineering
Mechatronics and robotics engineers create intelligent devices by combining mechanical and electrical engineering principles. They are shaping the future by designing smarter cars, autonomous farm equipment, robots for the manufacturing industry and much more. These devices have mechanical and electrical components, sensors and computer software - all working together, harmoniously.

As automation and robotics increase around us, so does the need for engineers with specialized knowledge of these topics. The field of mechatronics and robotics engineering emerged out of this need to develop the best possible design while seamlessly merging mechanical and electronics knowledge. Mechatronics and robotics engineers have the interdisciplinary knowledge necessary to oversee the design and development of such intelligent devices from beginning to end, rather than completing mechanical, electrical and control designs separately.

While there are few Bachelor of Science (BS) programs in mechatronics and/or robotics in the U.S. and several abroad, SIUE is the only such program in the state of Illinois and the Midwest.

Career Opportunities
Mechatronics and robotics engineers find jobs in companies that design, develop and manufacture intelligent devices, systems and equipment for medical, automotive, communication, agriculture, construction and entertainment industries. Some examples of these are:
- Mobile or industrial robots
- Quadcopters and drones
- Autonomous vehicles
- High-tech prosthetic limbs
- Consumer electronics
- Space and defense
- Smart home, smart city and smart planet

Enrollment in Upper-Division Mechatronics and Robotics Engineering Courses
The requirements for enrollment in upper-division mechatronics and robotics engineering courses are:
- satisfactory completion of all University and School of Engineering admission requirements;
- an approved application for enrollment in upper-division engineering courses;
- satisfactory completion of the lower-division (core) courses CE 240, 242; CHEM 131 (or 121a), 135 (or 125a); CS 145 or 140; ECE 210; ENG 101, 102; MATH 150, 152, 250, 305; ME 262; PHYS 141 (or 151), 151L, 142 (or 152), 152L; ACS 103 or ACS 101; and IE 106 or RA 101 with a grade point average of at least 2.0 for the above courses is required for non-transfer students, transfer students from articulated programs, and Illinois resident transfer students; a grade point average of at least 2.25 for the above courses is required for other transfer students;
- a grade point average of 2.0 or better in ME 262, CE 240, CE 242, and ECE 210 (both original and repeat grades are computed in this grade point average); and
- a grade of C or better in ENG 101, ENG 102, ME 262, and CE 240 or their equivalent.

Note: All grade point averages for the mechatronics and robotics engineering program are computed using the original and repeat grades. Exceptional cases will be reviewed by the faculty on a case-by-case basis.

**Academic Status/Retention**

Students must meet the following standards. Students who fail to do so will be placed on probation in the major.

- Maintain a cumulative grade point average of 2.0.
- Maintain a term grade point average above 1.0 in any term.
- Maintain a cumulative grade point average of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative grade point average of at least 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative grade point average of at least 2.0 in major courses numbered above 299.

- Receive no more than two failure grades, incomplete, and/or withdrawals in any combination for a single course required in the major.

Students placed on probation should seek immediate advisement and will be given the conditions required for removal from probation. If the conditions are not met, the students are dropped from the major and may not enroll in upper-division School of Engineering courses without written departmental permission. After one year, students are eligible to reapply for admission to the major. Students dropped from the major may direct a written appeal to the department’s undergraduate committee.

**Degree Requirements, Bachelor of Science Mechatronics and Robotics Engineering**

**Breadth - Physical Science Courses**
CHEM 131 (or 121a)   CHEM 135 (or 125a)  MATH 152   MATH 250   MATH 305   MATH 321  PHYS 141   PHYS 151L   PHYS 142   PHYS 152L

**Breadth**
Fine & Performing Arts (3 hours)  Life Science (3 hours)  Breadth-Information & Communication in Society Course  STAT 380

**Breadth-Humanities Course**
PHIL 323

**Breadth-Social Science Course**
ECON 111

**Foundations**
ENG 101   ENG 102  PHIL 323   MATH 150 (FOR)

**One of the following: ACS 101 or 103**

**The following Experiences are also required:** New Freshman Seminar (NFS), Health (EH), Global Cultures (EGC) and United States Cultures (EUSC)

**Interdisciplinary Course (IS)**

**Engineering Courses**
CE 240   CE 242   CS 140 or 145  IE 106   IE 345   ECE 210  ECE 211   ECE 282   ECE 381  ME 262   ME 354   ME 356  ME 450*   MRE 320   MRE 358  MRE 380   MRE 454   MRE 477  MRE 480   MRE 481   MRE Electives (6 hours)

*ME 450 may be substituted by the two-course series ECE 365 - Control Systems and ECE 465 - Control Systems Design.

To view a sample program for mechatronics and robotics engineering, visit the School of Engineering Web site at [siue.edu/engineering/studentservices/curriculumguides.shtml](http://siue.edu/engineering/studentservices/curriculumguides.shtml).
Sample Curriculum for the Bachelor of Science in Mechatronics and Robotics Engineering

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>IE 106 – Engineering Problem Solving</td>
<td>ENG 102 – English Composition II</td>
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<tr>
<td>CHEM 131 – Engineering Chemistry (BPS)</td>
<td>CS 145 - Introduction to Computers for Engineering</td>
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<tr>
<td>CHEM 135 – Engineering Chemistry Lab (EL)</td>
<td>MATH 152 – Calculus II (BPS)</td>
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<tr>
<td>ENG 101 – English Composition I</td>
<td>PHYS 141 – Physics I for Engineering (BPS)</td>
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<td>MATH 150 – Calculus I (BPS, FQR)</td>
<td>PHYS 151L – University Physics Laboratory I (EL)</td>
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<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>ACS 103 - Interpersonal Communications</td>
<td>ME 262 – Dynamics</td>
</tr>
<tr>
<td>CE 240 – Statics</td>
<td>CE 242 – Mechanics of Solids</td>
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<td>MATH 250 – Calculus III (BPS)</td>
<td>ECE 211 – Circuit Analysis II</td>
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<td>PHYS 142 – Physics II for Engineering (BPS)</td>
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<td>PHYS 152L – University Physics Laboratory II (EL)</td>
<td>MATH 305 – Differential Equations I</td>
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<td>ECE 210 – Circuit Analysis I</td>
<td># Application for Upper Division</td>
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<tr>
<th>Year 3</th>
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<tbody>
<tr>
<td>ECE 282 - Digital Systems Design</td>
<td>MRE 358 – Intro to Mechatronics</td>
</tr>
<tr>
<td>ME 356 – Dynamic Systems Modeling</td>
<td>MRE 320 – Sensors and Actuators</td>
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<tr>
<td>ME 354 - Numerical Simulation</td>
<td>ME 450* – Automatic Control</td>
</tr>
<tr>
<td>MRE 380 - Design of Machine Elements</td>
<td>ECE 381 - Microcontroller</td>
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<td>MATH 321 - Linear Algebra</td>
<td>PHIL 323 – Engineering, Ethics, &amp; Professionalism (BHUM)</td>
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<td>Breadth Fine &amp; Performing Arts (BFPA)</td>
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<tbody>
<tr>
<td>MRE 454 - Robotics - Dynamics &amp; Controls</td>
<td>MRE Technical Elective II</td>
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<tr>
<td>MRE 480 - Design in Mech &amp; Robotics I</td>
<td>MRE 477 - Computer Integ Manufacture Systems</td>
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<td>IE 345 - Engineering Economic Analysis</td>
<td>MRE 481 - Design Mech &amp; Robotics II</td>
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<td>MRE Technical Elective II</td>
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<td>Interdisciplinary Studies (IS)/Experience Global Cultures (EGC)</td>
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*ME 450 may be substituted by the two-course series ECE 365 - Control Systems and ECE 465 - Control Systems Design.

# Application for Upper Division requires satisfactory completion of lower-division core courses. An 'APPLICATION FOR ADMISSION TO UPPER-DIVISION' must also be completed and approved. This application is available online and in the Engineering Student Services Office.

Graduation Requirements
Degree requirements include the following:

- a cumulative grade point average of 2.0 or higher in engineering courses;
- a cumulative grade point average of 2.0 or higher is required for mechatronics and robotics engineering courses numbered above 299;
- completion of all departmental and University requirements; and
- completion of a senior assignment as part of MRE 480 - Design in Mechatronics & Robotics I and MRE 481 - Design in Mechatronics & Robotics II.

Minor Requirements
Eighteen semester hours are required for a minor in mechatronics and robotics engineering, including MRE 358 and ME 450. Remaining courses are electives to be selected from among the following courses: ME 262, ECE 282, ECE 381, ME 356, MRE 320, MRE 477, and MRE 454. A cumulative grade point average of 2.0 or higher is required for mechatronics and robotics engineering courses.
SCHOOL OF NURSING

Laura Bernaix, PhD, RN
Dean and Professor
Clinical Associate Professors
Omondi, Linda, D.N.P., 2007, Medical College of Georgia
White, Kim, Ph.D., 2005, Barry University

Clinical Assistant Professors
Chance, Charlotte, D.N.P., 2016, Southern Illinois University Edwardsville
Griffin, Valerie, D.N.P., 2013, Maryville University

Instructors
Andrews, Angela, M.S., 2012, Southern Illinois University Edwardsville
Bachmann, Michele, M.S., 2007, Southern Illinois University Edwardsville
Basarich, Kerry, M.S., 2017, Southern Illinois University Edwardsville
Blake, Danielle, M.S.N., 2017, Chamberlain
Boatman, Marilyn, M.S., 2007, Southern Illinois University Edwardsville
Boyer, Gaylyn, M.S.N., 1982 University of California
Clarida, Pamela, M.S.N., 2016, Wilkes University
Collier, Rebecca, D.N.P., 2013, Southern Illinois University Edwardsville
Combs, Cathy, M.S.N., 1986, University of Evansville
Compton-McBride, Sheri, M.S., 2010, Southern Illinois University Edwardsville
Cooley, Tracy, M.S., 2013, Southern Illinois University Edwardsville
Dixon, Barbara, M.S.N., 2006, University of Missouri-St. Louis
Ellis, Angela, M.S., 2012, Southern Illinois University Edwardsville
Ertel, Michelle, DNP, 2017, Middle Tennessee School of Anesthesia
Frazier, Mary, M.S.N., 2017, Southern Illinois University Edwardsville
Hammel, Leah, M.S., 2012, McKendree University
Harmon, Elise, M.S.N., 2011, McKendree University
Hopper, Laurie, M.S.N., FNP, 2017, Simmons College
Howland, Chelsea, M.S., 2016, Southern Illinois University Edwardsville
Hoxsey, Jennifer, M.S.N., 2002, Jewish Hospital College of Nursing
Jackson, Cheryl, M.S., 1998, Southern Illinois University Edwardsville
Jennings, Greg, M.S., FNP, 2017, Southern Illinois University Edwardsville
LaFollette, Jean, M.S.N., 2010,
University of Missouri-St. Louis
Lukowski, Cindy, M.S., 2013,
Southern Illinois University Edwardsville
Martin, Deanna, M.S., 2005,
Southern Illinois University Edwardsville
McGuire, Kelley, M.S., 2013,
Southern Illinois University Edwardsville
McKay, Chontay, M.S.N., 2015,
Maryville University
Metz, Diane, M.S., 2017,
Southern Illinois University Edwardsville
Nicholson, Heather, M.S.N., 2007,
Mckendree University
Owen, Rachel, M.S., 2015
Southern Illinois University Edwardsville
Petri, Carly, M.S., 2010,
Southern Illinois University Edwardsville
Phelan, Caitlin, M.S., FNP-BC, 2011,
Southern Illinois University Edwardsville
Reed, Amy, M.S., 2012,
Southern Illinois University Edwardsville
Roberts, Kimberly, M.S.N., 2003
University of Alabama
Ross, Amanda, M.S., 2016,
Southern Illinois University Edwardsville
Sanders, Sarah, M.S., 2017,
Southern Illinois University Edwardsville
Schmitz, Jennifer, 2014, M.S.,
Southern Illinois University Edwardsville
Skelton, Stacy, M.S.N., 2002,
University of Missouri-St. Louis
Sobczak, Bernadette, DNP, PNP-C, 2017,
Maryville University
Stonecypher, Taylor, M.S., 2015,
Southern Illinois University Edwardsville

Lecturers
Agne, Marnie, M.S.N., 2012,
Mckendree University
Baecht, Leah, M.S., 2010
Southern Illinois University Edwardsville
Bartlett, Malyanch, M.S.N., 2014,
Chamberlain College of Nursing
Beard, Rachael, E.d.D., 2013
Lindenwood University
Behrhorst, Virginia, M.S., 1993,
Southern Illinois University Edwardsville
Carter, Mary, M.S., 2001,
Southern Illinois University Edwardsville
Coats, Michon, CRNA, DNAP, 2014,
Mt. Marty School of Nurse Anesthesia
Constantinides, Maria, DNP, 2017,
Southern Illinois University Edwardsville
Cranick-Stokes, Lesley, M.S.N., 2015,
Mckendree University
Dudley, Terry, M.S.N., 2013
Mckendree
Elmore, Kristin, M.S. FNP-BC, 2014,
Southern Illinois University Edwardsville
Emling, Christine, M.S.N., 2017,
University of Southern Indiana
Furfaro, Terri, DNP, FNP-BC, 2013,
Southern Illinois University Edwardsville
Govero, Elizabeth, D.N.P. 2017,
Southern Illinois University Edwardsville
Hamilton, Amy, D.N.P., 2017,
Southern Illinois University Edwardsville
Hamilton, Megan, M.S., 2008,
Southern Illinois University Edwardsville
Harlston, Veronica, M.S., 1990
Southern Illinois University Edwardsville
Hartzel, Karen, M.S., 1994,
Southern Illinois University Edwardsville
Henske, Kendra, M.S., 2006,
Southern Illinois University Edwardsville
Hood, Annette, D.N.P., 2013,
Southern Illinois University Edwardsville
Hopper, Laurie, M.S.N., 2017,
Simmons College
Howell, Kendra, M.S.N., 2011,
Walden University
Imoden, Annie, M.S.N., 2007,
Vanderbilt University
Ludwig, Kristin, M.S.N., 2015
Maryville University
Marks, Vivian, M.S.N., 2009,
University of Southern Indiana
Martin, Evelyn (Lyn), M.S., 1991,
Southern Illinois University Edwardsville
McCoy, Jamie, M.S.N., 2016
Webster University
McGuigan, Jennifer, MA, Philosophy, M.S.N.
2016,
Chamberlain University
Miller, Maureen, M.S.N., 1995,
Saint Louis University
Milton, Amanda, M.S., 2015,
Southern Illinois University Edwardsville
Moran, Mary, M.S.N., 2015,
Webster University
Murray, Kelly, M.S.N., 2000,
University of Missouri St. Louis
Patrick, Cortney, M.S., 2016
Southern Illinois University Edwardsville
Payne, Kathleen, M.S.N., 1987,
St. Louis University
Petrov, Ruth, M.S., 2012,
Southern Illinois University Edwardsville
Pietroburgo, Sheila, M.S., 2005,
Southern Illinois University Edwardsville
Ross, Amanda, M.S., 2016,
Southern Illinois University Edwardsville
Schmidt, April, D.N.P., ANP-C., 2013,
St. Louis University
Schneider, Adam, M.S., 2015,
Southern Illinois University Edwardsville
Nursing is defined by the School of Nursing as the protection, promotion and optimization of health and abilities, prevention of illness and injury, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, communities and populations (ANA, 2003, Social Policy Statement.)

Nursing courses build on a foundation in the liberal arts and sciences and are concentrated in the last six semesters of study. The undergraduate nursing curriculum is built on the themes of analytical reasoning, communication, role, human diversity, and ethics. Learning is viewed as an active search by the learner in constructing and reconstructing knowledge. Learning involves social interaction that promotes a process of becoming a member of a sustained community of practice. Clinical and laboratory experiences are an integral part of the nursing major. Health care agencies in Central, Southern, and Southwestern Illinois and in the greater St. Louis area cooperate with the School of Nursing in providing opportunities to practice clinical skills and apply theoretical knowledge.

Faculty are nationally recognized experts in nursing care and their expertise represents a wide range of specialties. All faculty have advanced preparation in nursing and maintain an active role in clinical practice, research, scholarly inquiry and professional service.

Mission Statement
The Southern Illinois University Edwardsville (SIUE) School of Nursing faculty and staff educate, empower, and support diverse learners to achieve excellence in nursing.

Characteristics of the Graduates
Upon completion of the baccalaureate nursing program, the student:

- appraises all aspects of health care situations and consequences of chosen actions.
- chooses effective communication approaches using strategies and theories integral to the practice of nursing.
- designs effective responses to identified health care concerns.
- initiates investigation of professional issues.
- integrates knowledge of human diversity and the effects of health and social policies on populations.
- integrates personal and professional ethical code into professional practice.
incorporates understanding of moral judgments into determining ethical issues.

Career Opportunities
Nursing is a learned profession built on a core of knowledge reflective of its dual components of science and art. As lifelong learners, professional nurses practice in a variety of settings such as hospitals, public health departments, schools, outpatient clinics, and home health and mental health agencies. The professional nurse partners with other healthcare professionals in applying evidence-based knowledge combined with caring and compassion to provide quality care.

Degree Programs
Bachelor of Science, Nursing
Options for completion:
- Traditional
- Post-Baccalaureate Accelerated
- Accelerated R.N. to B.S. Nursing

Program Overview
Traditional Option-Program for Licensure

Edwardsville & Regional Program at Carbondale
The Traditional Option-Program for Licensure is designed for first degree-seeking students with no previous college experience. It is offered at both the Edwardsville campus and the SIUC campus. The option at the Edwardsville campus is offered in a primarily face-to-face format. The regional program at the SIUC campus is identical to the curriculum offered on the Edwardsville campus, and the classes are offered in a primarily face-to-face format. SIUE nursing faculty will teach classes at Carbondale and provide clinical supervision of the nursing students in the Carbondale area. Admission criteria are the same for both campuses. The Bachelor of Science degree will be conferred by SIUE. Upon successful completion of the option, students are eligible to take the National Nursing Licensure Exam (NCLEXRN) to obtain their license as a registered nurse.

Admission
A prospective student may declare a preclinical nursing major during first semester as long as he/she is not enrolled in Academic Development classes and is in good standing.

Nursing applications are accepted September 15-March 1 for both Fall and Spring admissions. Fall admission is for both the Edwardsville and Carbondale campuses. The Spring admission is for the Edwardsville campus only.

The deadline date for application is March 1 for both Fall and Spring admissions.

The School of Nursing admission requirements are the same for the Edwardsville applicants and the SIUC regional campus applicants. Applicants must choose to apply to either Edwardsville or Carbondale, not both.

An application to the School of Nursing will be considered complete and ready to be reviewed for admission when all of the following criteria are met:

- Admission to the University by the March 1 deadline (requires submission of a university application and $40 fee) for Edwardsville and transfer applicants. Students taking the pre-nursing curriculum on the SIUC campus do not have to apply for SIUE University admission until they receive a conditional admission letter from the School of Nursing. The $40 application fee is waived for these students.

- Completed nursing application and Minimum Technical Standards form on file in the School of Nursing by the March 1 deadline for BOTH Fall and Spring admissions.

- Successful completion of the required admission prerequisite courses with a grade of C or better by the end of the Fall semester (preceding the spring admission evaluation for BOTH Fall and Spring admissions). The required prerequisites for admission are ENG 101, ACS 101 or 103; CHEM 120a/124a, PSYC 111, and BIOL 140 (or a higher Biology prerequisite [BIOL 150 or BIOL 240a]). *SEE NOTE BELOW*

- Students must have a minimum prerequisite grade point average of 2.7 on a 4.0 scale (including transfer credit as well as credit earned at SIUE), and a minimum cumulative GPA of 2.5 for admission consideration.

- Completion of the Test of Essential Academic Skills (TEAS) examination by the March 1 deadline for BOTH Fall and Spring admissions. Students must score in the “proficient” level to be considered for admission. The test can be repeated one time only prior to the deadline date (must wait 3 weeks after taking test the first time).

NOTE: Prerequisite courses taken during the summer semester (preceding the fall admission term) and prerequisite courses taken during the fall semester (preceding the spring admission
The application process is competitive. The School of Nursing reserves the right to limit the size of its entering class, therefore merely applying to the program and meeting or exceeding the stated minimum GPAs and TEAS test score does not guarantee admission into the nursing program.

Students are admitted to the School of Nursing at the end of their freshman year for enrollment in nursing classes in the following fall or spring semester. Conditional acceptance will be issued in mid April for BOTH fall and spring admissions. Final acceptance will be issued once the final grades of “C” or better are received for all of the required prerequisite courses, and the minimum prerequisite and cumulative gpa requirements are still upheld.

Direct Entry Admission

Direct entry into the bachelor of science in nursing (BS) program is awarded to highly qualified incoming freshmen with an ACT composite score of 23 or higher. To be considered for direct entry, prospective freshmen must submit a completed undergraduate admission application by December 1. Candidates should list nursing or “still deciding in nursing” as their intended major. Selection to the nursing program is guaranteed, provided the student satisfies prerequisite work in the first year at SIUE and maintains the following criteria:

- A “C” grade or higher in all prerequisite courses.
- A minimum 3.0 prerequisite gpa (including prerequisite courses taken at SIUE or transfer) calculated at the end of the fall semester (freshman year) and again at the end of the spring semester (freshman year).
- A minimum 3.0 cumulative gpa (including all college course work) calculated at the end of the fall semester (freshman year) and again at the end of the spring semester (freshman year).

Pre-nursing course advisement will be conducted by School of Nursing advisors.

Retention

- Students must achieve a grade of 76 or above
to pass a nursing course and progress to the next sequence of courses. The grading scale for the School of Nursing is: A = 93-100; B = 85-92; C = 76-84; D = 68-75 and F below 68. Students will be excluded from the School of Nursing if they receive two failing grades (grades below C) in nursing courses, two failing grades in the corequisite course Biol 240B (Human Anatomy & Physiology II), or a combination of both.

- All students admitted to the undergraduate nursing program are required to maintain a cumulative GPA of 2.0 or above.
- Students must receive a grade of C or higher for all prerequisite and corequisite courses for nursing. Corequisite courses include BIOL 240b, RA 101, STAT 107, and PHIL 225, 320, or 321.
- Pre-licensure and ABS students must complete the requirements of the standardized testing program.
- Students must meet the competencies standards set in the Minimum Technical Standards Policy of Admission and Matriculation.
- Students must display conduct congruent of that expected of professional persons. (See Retention and Progression Standards in the Baccalaureate Student Handbook for details).

**Transfer**

Transfer students follow the same criteria and procedures for admission as SIUE students. Please see the admission information listed above.

Students seeking admission whose prerequisite courses were taken at other colleges or universities must submit official transcripts to the Office of Admissions, SIUE, Box 1047 as part of the admission process. In addition, course descriptions obtained from official sources or course syllabi may be requested. The prerequisite and cumulative grade point averages will be calculated in the School of Nursing. Applicants are responsible for ensuring their record is current and complete.

Selected nursing courses will transfer only from baccalaureate programs accredited by the Accreditation Commission for Education in Nursing or Commission on Collegiate Nursing Education. Course syllabi from the school of transfer will be reviewed for approval of credit and placement in the program by the Assistant Dean for Undergraduate Programs in consultation with the nursing course leader as appropriate. Typically, nursing courses do not transfer from school to school. Up to 25 percent of the nursing curriculum hours can be accepted as transfer which equates to 17 semester hours for the Traditional Option.

**General Education Requirements for the Traditional Option**

**Admission Prerequisite Requirements**

To be completed by the end of the fall semester (preceding the spring admission evaluation for BOTH the Fall and Spring admissions):
- ENG 101; ACS 101 or 103; CHEM 120a/124a; PSYC 111; and BIOL 140 (or a higher Biology prerequisite, BIOL 150 or BIOL 240a).

**Remaining Prerequisite Requirements**

To be completed by the end of the spring semester (preceding the Fall admission term) for students applying to BOTH the fall and spring semesters. Students applying for spring admission ONLY must complete the remaining listed prerequisites by the end of the summer semester (preceding the Spring admission term). The remaining prerequisite courses are:
- ENG 102; CHEM 120b/124b; Bacteriology (BIOL 250); Anatomy and Physiology I (BIOL 240a).

All science courses must be completed within seven years of admission to the program. A grade of C or better must be earned in all prerequisite courses.

**NOTE:** Honors students may need an elective course to meet the 120 hours for graduation. Students should check their hours with the School of Nursing advisor.

**Degree Requirements**

University General Education requirements are listed in the General Education section of this catalog and noted in the sample curricula.

<table>
<thead>
<tr>
<th>NURS 231</th>
<th>NURS 234</th>
<th>NURS 240</th>
<th>NURS 246</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 341a</td>
<td>NURS 341b</td>
<td>NURS 342</td>
<td>NURS 343</td>
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<tr>
<td>NURS 354</td>
<td>NURS 355</td>
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<td>NURS 483</td>
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</tr>
<tr>
<td>BIOL 240b</td>
<td>RA 101</td>
<td>PHIL 225, 320 or PHIL 321</td>
<td></td>
</tr>
<tr>
<td>STAT 107 (prior to senior status)</td>
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</table>
Sample Curriculum for the Bachelor of Science Degree in Nursing

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>ENG 101 – English Composition I ................................................. 3</td>
<td>ENG 102 – English Composition II .................................................. 3</td>
</tr>
<tr>
<td>ACS 101 Public Speaking (FSPC) or 103 - Interpersonal Communication (EUSC) ..................................................... 3</td>
<td>BIOL 250 – Bacteriology (LS) ............................................................ 4</td>
</tr>
<tr>
<td>CHEM 120a Gen, Org, &amp; Biol Chem I (BPS) ............................................. 3</td>
<td>BIOL 240a – Anatomy &amp; Physiology I (BLS, EL) ...................................... 4</td>
</tr>
<tr>
<td>CHEM 124a Gen, Org, &amp; Biol Chem Lab (EL) ............................................ 1</td>
<td>Chem 120b Gen, Org, &amp; Biol Chem II (BPS) ........................................... 3</td>
</tr>
<tr>
<td>BIOL 140 – Human Biology (BLS) ......................................................... 3</td>
<td>Chem 124b Gen, Org, &amp; Biol Chem II Lab (EL) ........................................ 1</td>
</tr>
<tr>
<td>PSYC 111 – Foundations of Psychology(BSS) .......................................... 3</td>
<td>Total ........................................................... 15</td>
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<tr>
<td><strong>Total</strong> ......................................................... 16</td>
<td><strong>Total</strong> ........................................................... 16</td>
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<thead>
<tr>
<th><strong>Year 2</strong></th>
<th><strong>Year 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 231 - Examination of Role of Profess Nurse ................................ 4</td>
<td>NURS 240 – Pathophysiology (LS) ....................................................... 4</td>
</tr>
<tr>
<td>NURS 234 – Human Development – Life Span ............................................. 3</td>
<td>NURS 246 – Foundation &amp; Assmnt in Nsg Practice .................................. 6</td>
</tr>
<tr>
<td>BIOL 240b – Anatomy &amp; Physiology II (BLS, EL) .................................... 4</td>
<td>STAT 107 Concepts of Statistics (BICS) ............................................... 3</td>
</tr>
<tr>
<td>RA 101 - Reasoning &amp; Argumentation (FRA) or PHIL 212 ......................... 3</td>
<td>Breadth Fine &amp; Performing Arts (BFPA) ............................................... 3</td>
</tr>
<tr>
<td>QR 101 - Quantitative Reasoning or MATH 150 ...................................... 3</td>
<td>Total ........................................................... 17</td>
</tr>
<tr>
<td><strong>Total</strong> ......................................................... 17</td>
<td><strong>Total</strong> ........................................................... 16</td>
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<th><strong>Year 3</strong></th>
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<tr>
<td>NURS 341a - Pharmacology for Nurses-Adult Medicine ................................ 2</td>
<td>NURS 341b - Pharmacology for Nsg-Specialty Courses ............................. 2</td>
</tr>
<tr>
<td>NURS 342 – Adult Health I ................................................................. 5</td>
<td>NURS 354 – Care of Women &amp; Childbearing Families ................................ 5</td>
</tr>
<tr>
<td>NURS 343– Adult Health II ................................................................. 5</td>
<td>NURS 355 – Care of Children &amp; Adolescents ......................................... 5</td>
</tr>
<tr>
<td>Interdisciplinary Course (IS)/Experience Global Cultures (EGC) ................ 3</td>
<td>PHIL 225 - Contemp Moral Issues, PHIL 320 – Ethics or PHIL 321 – Medical Ethics (BHUM) ......................................................... 3</td>
</tr>
<tr>
<td><strong>Total</strong> ......................................................... 15</td>
<td>Total ........................................................... 15</td>
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<table>
<thead>
<tr>
<th><strong>Year 4</strong></th>
<th><strong>Year 4</strong></th>
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</thead>
<tbody>
<tr>
<td>NURS 472 Nursing Research ............................................................ 3</td>
<td>NURS 481 Nursing Leadership &amp; Management ..................................... 3</td>
</tr>
<tr>
<td>NURS 474 Care of Person with Mental Health Needs ................................ 5</td>
<td>NURS 482 Transition to Professional Practice Role ............................... 4</td>
</tr>
<tr>
<td>NURS 475 Care of Populations (EUSC) ................................................. 4</td>
<td>NURS 476 Care of Person with Complex Health Needs ............................ 5</td>
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<tr>
<td><strong>Total</strong> ......................................................... 12</td>
<td>NURS 483 Capstone Review ............................................................... 3</td>
</tr>
<tr>
<td><strong>Total Course Credits for Graduation</strong> ............................................ 121</td>
<td>Total ........................................................... 15</td>
</tr>
</tbody>
</table>

The Health Experience requirement will be met for nursing majors.

**Post-Baccalaureate Accelerated Bachelor of Science Degree in Nursing (ABS) Option**

The Post-Baccalaureate Accelerated Bachelor of Science Degree in Nursing option allows students with a bachelor’s degree to attain a B.S. degree with a major in Nursing through three semesters and one summer session. It is an intense, defined curriculum with a combination of classroom instruction and clinical experiences for students seeking a second baccalaureate degree. Coursework and clinical experiences are of the same high quality as the traditional first-degree baccalaureate progression, but taken at an accelerated pace. Upon successful completion of the option, students are eligible to take the National Nursing Licensure Exam (NCLEXRN) to obtain their license as a registered nurse.

Students must be dedicated and willing to attend classes as many as five days a week and devote an appropriate amount of time to their studies in order to be successful with this option. The full-time program begins in August (fall semester). ABS students pay differential tuition and fees as approved by the SIUE Board of Trustees.

**Admission**

Applications for admission are available from September 15 - March 1. The application deadline is March 1 or until the option is full.

An application to the School of Nursing will be considered complete and ready to be reviewed for admission when all of the following criteria are met:
Admission to the University (requires submission of a university application plus a $40 fee)

Completion of a baccalaureate degree (in any major field) from an accredited college or university by the end of the spring semester preceding fall enrollment.

Cumulative GPA of 3.0 on a 4.0 scale (bachelor's degree cumulative GPA)

Prerequisite GPA of 3.0 on a 4.0 scale. Prerequisite courses include ENG 101, PSYC 111, CHEM 120a/124a, CHEM 120b/124b, BIOL 240a, BIOL 240b, BIOL 250, STAT 107, PHIL 225, 320 or 321, and NURS 234 (Life Span Development). Equivalent transfer courses may be used (check with nursing advisor). A grade of C or better must be earned in all prerequisite courses. Any remaining prerequisites must be completed by May 31 (prior to fall enrollment).

Completed ABS application packet and Minimum Technical Standards form on file in the School of Nursing

Official transcripts from all college/universities attended

Two letters of reference completed by persons in an educational, administrative, or collegial capacity who have worked with the applicant closely in the past five years

Applicants are responsible for ensuring that their materials are received in the School of Nursing.

Applications received after the deadline will be viewed on a space-available basis. Applications are available from the School of Nursing Web site (siue.edu/nursing) or from the School of Nursing in Alumni Hall, Room 2117, or by calling (618) 650-3956.

In order for an application to be reviewed, all required materials must be submitted (partial application packets will not be reviewed). Applicants selected for admission will be directly admitted into the School of Nursing. Applying to the program and meeting the minimum admission criteria does not guarantee admission to the program. Admitted students must provide official documentation of all completed degree/prerequisite courses prior to fall enrollment.

Admitted students will be required to pay a non-refundable Advance Deposit fee of $175 which will be applied to the student’s tuition billing for fall enrollment. If the student does not attend, the fee is forfeited.

Retention
For information about retention requirements, please refer to the Retention and Progression Standards in the Baccalaureate Student Handbook.

Transfer
Transfer procedures for the ABS Option are the same as those stated for the Traditional Option with the exception of the transfer hours accepted from other nursing programs. Up to 25 percent of the nursing curriculum hours can be accepted as transfer, which equates to 15 semester hours for the ABS Option.

General Education Requirements for the Accelerated Option

Prerequisite Requirements
To be completed by May 31 (prior to fall enrollment):

- Anatomy and Physiology I (with lab)
- Anatomy and Physiology II (with lab)
- Inorganic, Organic Chemistry and Biochemistry (with labs)
- Microbiology/Bacteriology (with lab)
- Introduction to Psychology
- Human Growth and Development (Life Span)
- English Composition
- Statistics
- Ethics

NOTE: CLEP exams for prerequisite requirements are only accepted if the University accepts the individual exam.

All science courses must be completed within seven years of admission to the program. A grade of C or better must be earned in all prerequisite courses. A failed prerequisite course (D, F, or WF) may not be repeated more than once to receive a passing grade of C or higher.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NURS 231</td>
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<tr>
<td>NURS 240</td>
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<td>NURS 246</td>
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<tr>
<td>NURS 341a</td>
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<tr>
<td>NURS 341b</td>
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<td>NURS 355</td>
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Sample Curriculum for the Post-Baccalaureate Bachelor of Science Degree in Nursing

Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 231</td>
<td>Examination of Role of Profess Nurse</td>
<td>4</td>
</tr>
<tr>
<td>NURS 240</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 246</td>
<td>Foundation &amp; Assmt in Nsg Practice</td>
<td>6</td>
</tr>
<tr>
<td>NURS 472</td>
<td>Nursing Research *</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

* Students with a previous research course from their prior bachelor’s degree may petition to have the hours reduced for this course. If required to take 1 hour of credit, the student will complete the course in the summer semester as 1 hour.

Summer Session

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>NURS 354</td>
<td>Care of Women and Childbearing Families</td>
<td>5</td>
</tr>
<tr>
<td>NURS 355</td>
<td>Care of Children and Adolescents</td>
<td>5</td>
</tr>
<tr>
<td>NURS 341b</td>
<td>Pharmacology for Nsg-Specialty Courses</td>
<td>2</td>
</tr>
<tr>
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Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 474</td>
<td>Care of Persons with Mental Health Needs</td>
<td>5</td>
</tr>
<tr>
<td>NURS 342</td>
<td>Adult Health I</td>
<td>5</td>
</tr>
<tr>
<td>NURS 343</td>
<td>Adult Health II</td>
<td>5</td>
</tr>
<tr>
<td>NURS 341a</td>
<td>Pharmacology for Nurses-Adult Medicine</td>
<td>2</td>
</tr>
<tr>
<td>NURS 475</td>
<td>Care of Populations</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

An application to the School of Nursing will be considered complete and ready to be reviewed for admission when all of the following criteria are met:

- Admission to the University and the School of Nursing (requires submission of the on-line application for the Accelerated RN to BS Program and the $40 application fee)
- Cumulative GPA of 2.0/4.0 scale (includes all college level courses)
- Official transcripts from all college/universities attended

Applicants are responsible for ensuring that their materials are received in the School of Nursing.

The application is available from the School of Nursing Web site (siue.edu/nursing) or the University Admissions website at www.siue.edu/apply. Applicants should complete the “RN to BS” application.

NOTE: Anatomy/Physiology 1 and 2, Microbiology, and one college chemistry course must be completed prior to enrolling in any nursing courses.

Bridge Process

Academic proficiency credit for lower-division nursing courses completed as part of their preparation for licensure program at another institution will be given to applicants who have completed their nursing course work within five years of acceptance into the SIUE School of Nursing Accelerated RN to BS program.

Applicants who have completed their nursing course work over five years prior to acceptance into the program are required to submit a portfolio of their professional work prior to completion of their first semester in the nursing program. The portfolio will be reviewed by the RN to BS Program Coordinator. Applicants should contact the RN to BS program advisor for details.

Applicants who receive transferable nursing credits from an associate degree program at a four-year college/university. Proficiency credits will apply towards the nursing major at SIUE. Proficiency hours may be adjusted.
Retention
Retention requirements for the RN to BS Option are the same as those for the Traditional Option. Please refer to the Traditional Option or the Retention and Progressions Standards in the Baccalaureate Student Handbook for details.

Transfer
Transfer procedures for the RN to BS Option are the same as those stated for the Traditional Option with the exception of the transfer hours accepted from other nursing programs. Up to 25 percent of the nursing curriculum can be accepted as transfer which equates to 5 semester hours for the RN to BS Option.

General Education Requirements for the Accelerated RN to BS Option
Prerequisite Requirements - must have a “C” grade or higher
PREREQUISITES REQUIRED FOR ENROLLMENT IN THE PROGRAM:
- Anatomy & Physiology I (BLS, EL) ................. 4
- Anatomy & Physiology II (BLS, EL) ............... 4
- Microbiology (LS) .................................. 3

COMPLETE “IMMERSION” PRIOR TO REGISTRATION IN NURS 240R:
Prior to enrolling in the first nursing course (NURS 240R), it is recommended that students complete the “Immersion” to the RN-BS program on Blackboard. This immersion is separated into four modules. The first three modules provide information regarding (1) how to be a successful online student, (2) how to best use the Blackboard tools, and (3) library resources. In the fourth module, the student will demonstrate successful use of many of the Blackboard tools used in the nursing courses. The “Immersion” will be a resource for students throughout the program.

ADDITIONAL PREREQUISITES REQUIRED BEFORE NURS 475R (to be completed with a “C” grade or higher):
- English Comp I ................................... 3
- English Comp II ................................ 3
- Speech* ........................................... 3
- Logic (Reasoning & Argumentation) ........... 3
- Statistics (BICS) ................................ 3
- Ethics (BHUM) ................................. 3
*NOTE: Public Speaking or Interpersonal Communications will meet this requirement for transfer students.

REMAINING GENERAL EDUCATION COURSES TO BE COMPLETED FOR DEGREE
- Breadth Social Science (BSS) ......................... 3
- Breadth Fine & Performing Arts (BFPA) ............ 3
- Breadth Physical Science (BPS) ....................... 3
- Interdisciplinary Course (IS) ......................... 3
- Quantitative Reasoning (QR) ......................... 3
- Experience Global Cultures requirement (EGC) .... 3
- Elective Courses if needed (varies by student) .... 3
- 120 hours are required for graduation

Degree Requirements for a Bachelor of Science Degree in Nursing
NURSING COURSES TO BE COMPLETED (in order listed) - 22 hours - (8 week course format)
- NURS 240R - Pathophysiology ........................ 4
- NURS 335R - Health Assessment Strategies ........ 3
- NURS 475R - Care of Populations ..................... 4
- NURS 472R - Scholarly Inquiry: Connecting Research to Practice (Capstone I) ............... 3
- NURS 484R - Quality, Safety, and the Professional Nurse (Capstone II) ............... 4
- NURS 480R - Nursing Leadership in Health Care Systems (Capstone III) ............... 4
- Total Nursing Credits through Enrollment .......... 22

Additional Curriculum Requirements for All Baccalaureate Students
Senior Assignment
All Nursing majors are required to complete a Senior Assignment. In the Traditional and ABS programs, students will complete a senior assignment project in NURS 481. A capstone review course, NURS 483, is also required for all Traditional and ABS students. In the Accelerated RN to BS program, students will complete their senior assignment in NURS 472R, 484R, and 480R. At the end of NURS 481 and 480R, students will present their senior assignment project to course participants, course faculty, and other invited faculty. Students in NURS 481 and NURS 480R will complete a capstone reflection summarizing the development of the student from admission to the nursing program to graduation as a baccalaureate prepared professional nurse.

Standardized Exams
Traditional Option-Program for Licensure and Accelerated Option students admitted to the School of Nursing are required to take standardized exams throughout the curriculum.

Student Transportation to Clinical Practicum
Students are required to travel to a variety of clinical sites for the practicum experiences. Transportation to those sites is the responsibility of the student.
Health/Background Check Information
After admission into the Traditional and ABS nursing programs, students must submit the following materials (at the student’s expense). These specifications are required by all clinical agencies. The Baccalaureate Student Handbook, issued to students accepted into the School of Nursing, contains full details.

- Copy of a Physical Exam (according to School of Nursing guidelines)
- Immunization History plus (annual TB skin test and influenza injection required)
- Proof of CPR Certification (must maintain active status)
- Proof of Health Insurance
- Criminal Background Check
- Drug Screen

Students admitted into the RN to BS program will submit a criminal background check, drug screen, immunization waiver form, and an unencumbered registered nurse license (at the student’s expense).

Minor Requirements
A minor in nursing is not available.

Graduation Requirements
- Completion of 121 credit hours for the Traditional Option
- Completion of 120 credit hours for the Accelerated RN to BS Option
- Completion of 63 or 65 credit hours for the ABS Option
- Overall GPA of 2.0/4.0 scale
- Successful completion of School of Nursing Curriculum requirements
- Successful completion of Senior Assignment.

Non-Degree-Seeking Option
Continuing Education
The School of Nursing is an approved provider of continuing nursing education by the Ohio Nurses Association, an accredited approver by the American Nurses Credentialing Center’s Commission on Accreditation. The School of Nursing offers a variety of educational activities. More information can be found at siue.edu/nursing/about/continuinged.shtml.

Simulated Learning Center for Health Sciences
The School of Nursing maintains a Simulated Learning Center for Health Sciences that provides students with opportunities to practice and expand clinical knowledge and skills in a simulated, technological environment. All dimensions of health care are practiced in this environment, which consists of computerized and non-computerized patient simulations.

SIUE WE CARE Clinic
The SIUE WE CARE clinic in East St. Louis, Illinois, provides comprehensive nursing services to promote, maintain, and restore the physical, emotional, and social well-being of its clients. Service offered at the East St. Louis and community sites include physical examinations, immunizations, health screenings, evaluation and management of acute minor and chronic illnesses and health education. More information about the WE CARE clinic services can be obtained by calling (618) 482-6959.

Other Sources of Information
Prospective students and those currently enrolled may obtain additional information from academic profile sheets, School of Nursing bulletin boards, and the Student Handbook.
SCHOOL OF PHARMACY

Gireesh V. Gupchup, PhD, FAPhA
Dean and Professor
School of Pharmacy

University Park Building 200, Room 220
siue.edu/pharmacy

Professors
Behnen, Erin, Pharm.D. 2001,
St. Louis College of Pharmacy

Crider, A. Michael, Ph.D. 1975,
University of Kentucky

Gupchup, Gireesh V., Ph.D. 1996,
Purdue University

Luer, Mark S., Pharm.D. 1990,
St. Louis College of Pharmacy

Lynch, J. Christopher, Pharm.D. 1993,
St. Louis College of Pharmacy

McPherson, Timothy, Ph.D. 1995,
Purdue University

Poirier, Therese I., Pharm.D. 1979,
University of Michigan; M.P.H. 1985,
University of Pittsburgh

Ruscin, J. Mark, Pharm.D. 1993,
University of Illinois at Chicago

Siganga, Walter, Ph.D. 1992,
University of Maryland Baltimore

Associate Professors
Devraj, Radhika, Ph.D. 1998,
Purdue University

Ferguson, McKenzie, Pharm.D. 2006,
St. Louis College of Pharmacy

Gable, Kelly, Pharm.D. 2004,
University of Mississippi

Hecht, Keith, Pharm.D. 2001,
St. Louis College of Pharmacy

Herndon, Chris, Pharm.D. 1998,
St. Louis College of Pharmacy

Kerr, Jessica, Pharm.D. 2001,
St. Louis College of Pharmacy

Kolling, William, Ph.D. 1997,
University of Iowa

Kontoyianni, Maria, Ph.D. 1991,
University of North Carolina

Kwon, Guim, Ph.D. 1992,
University of Michigan

Neumann, William L., Ph.D. 1988,
University of Missouri-St. Louis

Nieto, Marcelo, Ph.D. 1999,
National University of Córdoba, Córdoba, Argentina

Santanello, Cathy, Ph.D. 1990,
Saint Louis University

Schober, Joseph, Ph.D. 2003,
University of Illinois at Chicago

Witt, Ken, Ph.D. 2001,
University of Arizona

Worthington, Ronald, Ph.D. 1982,
Washington University in St. Louis

Assistant Professors
Deshpande, Maithili, Ph.D., 2013,
University of Wisconsin, Madison

Clinical Professor
Wuller, Cynthia, M.S. 1988,
St. Louis College of Pharmacy

Clinical Associate Professors
Arnoldi, Jennifer, Pharm.D. 2006,
Midwestern University, Chicago College of Pharmacy

Butler, Lakesha, Pharm.D. 2005,
Mercer University

Fan, Jingyang, Pharm.D. 2001,
University of Illinois at Chicago

Frueh, Janice, Pharm.D. 2007,
Creighton University

Lubsch, Lisa, Pharm.D. 2001,
St. Louis College of Pharmacy

Maynard, Cassandra, Pharm.D. 2001,
St. Louis College of Pharmacy

Ronald, Katie, Pharm.D. 2006,
St. Louis College of Pharmacy

Rosselli, Jennifer, Pharm.D. 2003,
St. Louis College of Pharmacy

Vogler, Carrie, Pharm.D. 2007,
Midwestern University, Chicago College of Pharmacy

Wilhelm, Miranda, Pharm.D. 2002,
University of Kansas

Clinical Assistant Professors
Cady, Elizabeth, Pharm.D. 2014,
Drake University

Gattas, Fred, Pharm.D. 2002,
University of Tennessee

Gonzalez, Misty, Pharm.D. 2007,
Purdue University

Gronowski, Scott, J.D. 1997,
Saint Louis University

McGinley, Julie, Pharm.D. 2015,
St. Louis College of Pharmacy

Newman, Katherine, Pharm.D. 2010,
Southern Illinois University Edwardsville

Sheley, Jared, Pharm.D. 2012,
Southern Illinois University Edwardsville

Wooley, Andrea, Pharm. D. 2011,
Saint Louis College of Pharmacy

Adjunct Research Assistant Professors
Sandoval, Karin, Ph.D. 2004,
University of Arizona
Program Description
The School of Pharmacy is SIUE’s newest academic unit, and represents a significant expansion of SIUE’s educational offerings in the area of health sciences for Southern and Central Illinois. The School offers a 4-year professional pharmacy program, leading to the Doctor of Pharmacy degree (Pharm.D.). The School of Pharmacy considers applications from qualified students who have completed a defined pre-professional curriculum at accredited colleges or universities. Opportunities to specialize in education and/or pediatric pharmacy are available to students in the third year of the professional program. Additional program options include the Pharm.D./MBA as well as certifications in Organizational Leadership and Healthcare Information Systems.

Vision Statement
Southern Illinois University Edwardsville School of Pharmacy will be a national model for exceptional pharmacy education, patient-centered care and innovative research.

Mission Statement
Southern Illinois University Edwardsville School of Pharmacy is an interdisciplinary educational community dedicated to the preparation of pharmacy professionals, scholars and leaders to improve the health and well-being of the region and beyond.

Goals
The goals of the School of Pharmacy are:
- Advance innovative education, service and scholarship programs
- Promote faculty and staff development and support
- Foster prospective pharmacy students
- Expand and support professional growth of students and alumni
- Cultivate diversity and inclusiveness
- Identify, develop and sustain external relations and financial support

Degree Program
Doctor of Pharmacy (Pharm.D.)

Program Overview and General Department Information
The SIUE School of Pharmacy Doctor of Pharmacy (Pharm.D.) program is based upon a 2+4 model. To earn the Pharm.D. degree at SIUE, students must successfully complete the equivalent of a minimum of six years of college coursework (two years of pre-professional/pre-pharmacy study followed by four years in the professional degree program). The first two years of pre-pharmacy coursework may be completed at any regionally accredited college or university, however the four years of professional education must be completed at the SIUE School of Pharmacy. Students who are interested in applying to the Pharm.D. program are encouraged to contact the School of Pharmacy Office of Professional and Student Affairs (OPSA) for further information prior to application to ensure that admissions policies and application procedures are understood. Application information is available on the website at www.siue.edu/pharmacy/prospective or by calling (618) 650-5150.

Admissions Policies
Admissions to the professional program of the SIUE School of Pharmacy are limited and highly competitive – it is anticipated that the instructional resources available to the School will enable approximately 80 new students to be admitted each fall term. For this reason, achieving the minimum pre-pharmacy subject and grade criteria does not guarantee admission. In selecting students for admission, the School will consider the applicant’s cumulative grade point average (GPA), pre-pharmacy curriculum GPA, and pre-pharmacy GPA in science and mathematics courses. Only college level coursework is considered in these GPA calculations. Other evaluation criteria include the Pharmacy College Admissions Test (PCAT) score, letters of recommendation, and an on-campus interview which includes a formal writing assessment.

There are three pathways to gain admission into the pharmacy program: (1) traditional student; (2) Conditional Entry Program (CEP) student; or (3) transfer student.

Traditional Student
Traditional students should begin the application process one year before their anticipated enrollment in the SIUE School of Pharmacy. The SIUE School of Pharmacy uses the Pharmacy College Application Service (PharmCAS).

To be considered for admission to the Pharm.D. Program in the School of Pharmacy, candidates must:
- Complete the Pre-Pharmacy Curriculum by the end of the spring term prior to planned enrollment in the School of Pharmacy.
- All courses listed in the Pre-Pharmacy Curriculum must be completed with a grade of C or better.
- Applicants must have a minimum grade point average of 2.75 (on a 4.0 scale) in each of the following:
  - cumulative grade point average for all post-secondary courses attempted (excluding graduate courses)
  - pre-pharmacy curriculum grade point average
  - pre-pharmacy science and mathematics grade point average
- Complete a PharmCAS application (PharmCAS.org) and keep the PharmCAS record updated.
- Take the Pharmacy College Admission Test (PCAT) and scores must be submitted directly to PharmCAS.
- Meet the technical standards for admissions and continued enrollment. For details, please visit siue.edu/pharmacy.
- Complete and submit the professional program supplemental application. For details, please visit siue.edu/pharmacy.
- Successfully complete an on-campus professional program interview and writing assessment.

Based on the criteria above, the top candidates will be invited to matriculate in the Pharm.D. program.

**Conditional Entry Program Student**

Incoming freshmen who enter SIUE directly from high school may be considered for the Conditional Entry Program (CEP). The CEP is an early assurance program that allows selected students to earn direct admission to the SIUE School of Pharmacy (SOP). In order to qualify for consideration to the CEP, students must apply to the Meridian Scholars Program at SIUE and indicate either pharmacy or pre-pharmacy as an area of intended study on the Meridian Scholars Program application. On a competitive basis, candidates will be invited to interview and the top candidates will receive a formal invitation to participate in the CEP.

To be admitted to the School of Pharmacy via CEP, students must matriculate at SIUE as a freshman and:
- Complete the Pre-Pharmacy Curriculum no later than the end of the spring term of their sophomore year.

- All courses listed in the Pre-Pharmacy Curriculum must be completed with a minimum grade of C.
- CEP participants must have a minimum grade point average of 3.5 (on a 4.0 scale) in each of the following:
  - cumulative grade point average for all post-secondary courses attempted (excluding graduate courses)
  - pre-pharmacy curriculum grade point average
  - pre-pharmacy science and mathematics grade point average
- Complete a PharmCAS application (http://www.PharmCAS.org) and keep the PharmCAS record updated.
- Take the Pharmacy College Admission Test (PCAT) and scores must be submitted directly to PharmCAS.
- Meet the technical standards for admissions and continued enrollment. For details, please visit www.siue.edu/pharmacy.
- Complete and submit professional program supplemental application. For details, please visit www.siue.edu/pharmacy.
- Successfully complete an on-campus professional program interview and writing assessment.

Based on the criteria above, successful candidates will be invited to matriculate in the Pharm.D. program. For more information on the Conditional Entry Program, contact the School of Pharmacy at pharmacy@siue.edu or (618) 650-5150.

**Transfer Student**

The SIUE School of Pharmacy may accept students with advance standing subject to available positions in each class. An Advanced Standing Admissions Committee will evaluate all applicants applying with prior credits from another ACPE accredited degree program in pharmacy. Advanced standing admission can only be offered in fall semesters. To be considered for admission, students with advanced standing are required to:
- Complete the Advanced Standing (Transfer Student) Application Form.
- Be currently enrolled in an ACPE accredited professional Pharm.D. curriculum.
- Pay a $40 application fee.
General Education Requirements for the Major

Students pursuing the Pharm.D. degree are not required to complete the university general education requirements. However, students are required to complete the pre-pharmacy curriculum listed below. Completion of the pre-pharmacy course requirements does not guarantee admission to the SIUE School of Pharmacy. In addition, courses that will meet the SIUE pre-pharmacy requirements may not meet the requirements for completion of other majors at SIUE.

Pre-Pharmacy Curriculum

<table>
<thead>
<tr>
<th>BIOL 150</th>
<th>BIOL 151</th>
<th>BIOL 240b</th>
<th>BIOL 240a</th>
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<tr>
<td>BIOL 250 or BIOL 350 (BIOL 220 Prerequisite)*</td>
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<tr>
<td>CHEM 121a</td>
<td>CHEM 121b</td>
<td>CHEM 125a</td>
<td>CHEM 125b</td>
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<tr>
<td>CHEM 241a</td>
<td>CHEM 241b</td>
<td>CHEM 245</td>
<td>ECON 111</td>
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<tr>
<td>ENG 101</td>
<td>ENG 102</td>
<td>MATH 150 or MATH 145</td>
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<tr>
<td>PHYS 131/131L</td>
<td>PHYS 132/132L or STAT 244**</td>
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<tr>
<td>RA 101 or any PHIL</td>
<td>SOC 111 or PSYC 111</td>
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<tr>
<td>ACS 101</td>
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</table>

* Students who plan to enter the SIUE School of Pharmacy in 2018 or later must take either bacteriology (BIOL 250) or microbiology (BIOL 350). Microbiology has genetics (BIOL 220) as a prerequisite.

** Students who plan to enter the SIUE School of Pharmacy in 2017 may take either statistics (STAT 244) or a second semester of physics (PHYS 132/132L). Students who plan to enter the SIUE School of Pharmacy in 2018 or later must take statistics and the second semester of physics will no longer fulfill a requirement of the pre-pharmacy curriculum.

Degree Requirements Pharm.D.

<table>
<thead>
<tr>
<th>PHAS 708</th>
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<th>PHAS 716</th>
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<td>PHAS 728N</td>
<td>PHAS 733N</td>
<td>PHAS 754</td>
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<td>PHAS 756</td>
<td>PHEP 719A</td>
<td>PHEP 719B</td>
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<td>PHEP 739B</td>
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<td>PHEP 780</td>
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<td>PHEP 781</td>
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<td>PHEP 783</td>
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<td>PHEP 784*</td>
<td>PHEP 789</td>
<td>PHPR 710</td>
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<td>PHPR 711</td>
<td>PHPR 713N</td>
<td>PHPR 718A</td>
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<td>PHPR 718B</td>
<td>PHPR 735N</td>
<td>PHPR 758B</td>
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<td>PHPS 700</td>
<td>PHPS 701</td>
<td>PHPS 702</td>
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<td>PHPS 704</td>
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<td>PHPS 707N</td>
<td>PHPS 712</td>
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<td>PHPT 730B</td>
<td>PHPT 730C</td>
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<td>PHPT 730D</td>
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<tr>
<td>PHPT 750C</td>
<td>PHPT 750D</td>
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</table>

Electives**

* Students must repeat PHEL 784 to accumulate 18 credit hours for graduation

** Students are required to accumulate 10 elective credits for graduation. Approved internal and
external electives are listed below. Students may apply no more than 5 hours of external electives and 4 hours of Independent Study toward completion of elective hours. Students enrolled in the concurrent PharmD/MBA program are not subject to the external elective hour limitation.

**Approved Internal Electives:**

- PHEL 760E
- PHEL 765E
- PHEL 769E
- PHEL 772E
- PHEL 775E
- PHEL 779E
- PHEL 782E
- PHEL 785E
- PHEL 788E
- PHEL 791E
- PHEL 792E

**Approved External Electives:**

This list contains classes that may be of interest to Pharm.D. students to fulfill elective requirements. The inclusion of a course on this list does not imply direct application to pharmacy, but may allow the student to develop areas of personal interest or to expand their understanding of professional opportunities. If interested in one of these courses, the student must contact SOP Office of Professional and Student Affairs to inquire about enrollment procedures. The Curriculum Committee is not promoting and cannot guarantee enrollment in the following courses. The Committee will perform quality assurance measures to continually assess the inclusion of courses on this list:

- ACS 403
- ENG 491
- PBHE 464
- IS 343
- HONS 499
- PHIL 321
- PSYC 420
- PSYC 431
- PBHE 495
- SOCW 388*

University of Florida

- PHA6557 Clinical Toxicology I
- PHA6935 Veterinary Pharmacy
- PHA6357 Herbal and Dietary Supplements

Notre Dame of Maryland University

- PHRD 624 APhA Institute on Alcoholism and Drug Dependencies

*Students cannot earn credit toward the Pharm.D. for both SOCW 388 Chemical Dependency and PHEL 768 Addiction

Additional requirements may be expected for professional pharmacy students - see individual instructor for specific information.

### Sample Pre-Pharmacy Curriculum

#### Fall Semester

**Year 1**

- CHEM 121a – General Chemistry I .......................... 4
- CHEM 125a – General Chemistry Lab I ................... 1
- ENG 101 – English Composition I .......................... 3
- MATH 150 – Calculus I or MATH 145 – Calculus for the Life Sciences ........................................ 5
- BIOL 150 – Intro to Biological Sciences I ................ 4
- Total .......................................................... 17

**Year 2**

- BIOL 220 – Genetics ........................................... 4
- BIOL 240a – Human Anatomy & Physiology I ............ 4
- CHEM 241a – Organic Chemistry I .......................... 3
- PHYS 131/131L – College Physics I ......................... 5
- ACS 101 or 103 - Oral Expression .......................... 3
- Total .......................................................... 19

Beginning in 2018, STAT 244 (statistics) will completely replace PHYS 132/132L (physics II) and students will be required to take either BIOL 250 (Bacteriology) or BIOL 350 (microbiology). BIOL 350 has BIOL 220 (genetics) as a prerequisite.

#### Spring Semester

**Year 1**

- BIOL 151 – Intro to Biological Sciences II ................ 4
- CHEM 121b – General Chemistry II ........................ 4
- CHEM 125b – General Chemistry Lab II .................. 1
- ECON 111 – Principles of Macroeconomics ................ 3
- ENG 102 – English Composition II ........................ 3
- RA 101 - Reasoning & Argumentation (recommended) or any PHIL course ........................................ 3
- Total .......................................................... 18

**Year 2**

- BIOL 350 – Microbiology ....................................... 4
- BIOL 240b – Human Anatomy & Physiology II ............ 4
- CHEM 241b – Organic Chemistry II ........................ 3
- CHEM 245 – Organic Chemistry Lab ......................... 2
- STAT 244 – Statistics ........................................... 4
- SOC 111 or PSYC 111 ......................................... 3
- Total .......................................................... 20
## Sample Pharm.D. Curriculum

### 1st Professional Year

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>PHPS 700</td>
<td>Principles of Drug Action I</td>
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<tr>
<td>PHPS 702</td>
<td>Biochemical Principles for Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>PHPS 704</td>
<td>Biopharmaceutics and Drug Delivery I</td>
<td>2</td>
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<tr>
<td>PHAS 708</td>
<td>Health Care Systems</td>
<td>3</td>
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<td>PHPR 711</td>
<td>Drug Information</td>
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<tr>
<td>PHAS 716</td>
<td>Ethical Issues in Health Care.</td>
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<td>Pharmacy Skills Lab I</td>
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### 2nd Professional Year

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<td>PPHPS 720N</td>
<td>Pharmacokinetics</td>
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<td>PHAS 728N</td>
<td>Pharmacy Management I</td>
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<td>PHPT 730A</td>
<td>Integrated Pharmacotherapeutics I</td>
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<td>Integrated Pharmacotherapeutics II</td>
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<td>PHPT 735N</td>
<td>Physical Assessment &amp; Patient Care Skills</td>
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<td>PHEP 738A</td>
<td>Pharmacy Skills Lab III</td>
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<td>PHEP 739A</td>
<td>Personal and Professional Development III</td>
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### 3rd Professional Year

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<td>PHPT 750A</td>
<td>Integrated Pharmacotherapeutics V</td>
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<td>PHPT 750B</td>
<td>Integrated Pharmacotherapeutics VI</td>
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<td>PHAS 756</td>
<td>Pharmacy and Population Health</td>
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<td>PHPR 758R</td>
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### 4th Professional Year

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<td>PHEP 780</td>
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<td>PHEP 781</td>
<td>APPE (Hospital Pharmacy)</td>
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<tr>
<td>PHEP 782</td>
<td>APPE (Ambulatory Care)</td>
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<tr>
<td>PHEP 783</td>
<td>APPE (Acute Care/General Medicine)</td>
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### Elective Credits

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<tr>
<td>PHPT 750D</td>
<td>Integrated Pharmacotherapeutics VIII</td>
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<tr>
<td>PHPR 758B</td>
<td>Pharmacy Skills Lab VI</td>
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<td>PHEP 759B</td>
<td>Personal and Professional Development VI</td>
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<td><strong>Total</strong></td>
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### Other Courses

- PHPS 701 – Principles of Drug Action II.................. 2
- PHEP 703 - Principles of Pharmacogenomics ............... 2
- PHPR 704 – Biopharmaceutics and Drug Delivery II........ 3
- PHEP 705N - Biopharmaceutics and Drug Delivery II........ 3
- PHPS 707N – Pharmacy Calculations ........................ 1
- PHEP 710 – Biomedical Literature Evaluation .............. 3
- PHPS 712 - Immunology and Immunization Training ........ 3
- PHEPR 713N - Self Care & Alternative Medicines .......... 3
- PHEPR 718R - Pharmacy Skills Lab II ....................... 1
- PHEPR 719B - Personal and Professional Development II ... 3
- PHEPR 744 - Health Promotion & Literacy .................. 2
- PHEP 750A – Integrated Pharmacotherapeutics V ........... 2
- PHAS 754 – Pharmacy Management II ........................ 2
- PHEP 750C – Integrated Pharmacotherapeutics VII .......... 4
- PHPT 750D - Integrated Pharmacotherapeutics VIII ......... 4
- PHAS 754 – Pharmacy Management II ........................ 2
- PHEP 751 – Essentials of Research Application ........... 1
- PHPT 750C – Integrated Pharmacotherapeutics VII .......... 4
- PHPR 758B - Pharmacy Skills Lab VI ....................... 1
- PHEP 759B – Personal and Professional Development VI ... 1
- Electives ................................................................ 5
- **Total** ................................................................ **18**

### Notes

- Total credits varies depending on number of elective credits taken. Students are required to accumulate a total of 11 elective credits for graduation.
- The Pharm.D. curriculum is subject to change per recommendations by Curriculum Committee.
- The normal academic load is indicated for each semester. Students may be permitted to take more than these credits with the approval of the Office of Academic Affairs and the Pharmacy Advisor.
- Basic Life Support (BLS) Certification is required in order to progress from the first to the second professional year.
- The entire P-4 year is comprised of Advanced Pharmacy Practice Experiences (APPE). Over the course of three semesters, students will complete seven experiences, each lasting five weeks. There are four “Core” or required experiences (Community Pharmacy, Hospital Pharmacy, Ambulatory Care Pharmacy and Acute Care General Medicine Pharmacy) and three elective rotations that take place in any of numerous pharmacy specialized practices. The final element of the APPE program is the “Capstone” Senior Project rotation during which students design and complete a project in cooperation with a preceptor and under the guidance of the Capstone Coordinator who is an SIUE School of Pharmacy faculty member.
Graduation Requirements

Students must complete the curriculum in accordance with progression guidelines to be eligible for graduation from the Pharm.D. program.

Students are eligible to graduate when all of the following criteria have been met:

1. Students must successfully complete the Pharm.D. curriculum as approved by the faculty in the School of Pharmacy.

2. Students must complete 10k credit hours of electives
   a. No more than 5 elective credit hours can be external elective hours (except those enrolled in the concurrent PharmD/MBA program)
   b. No more than 4 elective credit hours can be independent study hours

3. Students must be in academic good standing.
   a. Students must have a cumulative GPA of 2.0 or above.
   b. Students cannot have more than 8 cumulative credit hours of “D” grades in courses applied towards the Pharm.D. degree.
   c. Students cannot have any “F” grades in courses applied towards the Pharm.D. degree.
   d. Students cannot have any “no credit” grades in courses applied towards the Pharm.D. degree.
School of Dental Medicine

2800 College Avenue
Alton, IL 62002
siue.edu/dentalmedicine

Professors
Douglas, R. Duane, D.M.D., 1989,
University of Manitoba; M.Sc., 1996,
State University New York
Land, Martin F., D.D.S., 1975, University of
Utrecht; M.S.D., 1978,
Purdue University
Milligan III, Wilbert H., D.M.D., 1979,
Southern Illinois University
Rotter, Bruce E. (Dean), D.M.D., 1982,
Southern Illinois University; M.S., 1990,
University of Iowa

Assistant Professors
Back, Brian C., D.M.D., 2008,
Southern Illinois University
Banker, Jeffrey C., D.D.S., 1986,
University of Illinois; M.S., 1992,
University of Missouri
Biethman, Rick, D.M.D., 1980,
Southern Illinois University; Certificate in
Periodontics, 1985,
VA Hospital Kansas City
Bitter, Robert N., D.M.D., 1978,
Washington University St. Louis; Certificate in
Periodontics, 1981,
Northwestern University
Buschman, Jason A., D.D.S., 1996,
University of Oklahoma; M.Ed., 2013,
Cameron University
Duncan, Randall C., D.D.S., 1983,
University of Texas; M.S., 1988,
University of Texas
Emery, Morgan, D.D.S., 2012,
U of MO KC
Gruender, Bret, D.M.D., 1986,
D.M.D.Southern Illinois University
Kosten, Kathryn R., 2009, D.M.D.,
Southern Illinois University
Langenwalter, Eric M., 1985,
Southern Illinois University
Misischia, Arthur J., D.M.D., 1978,
Washington University; Certificate in Oral &
Maxillofacial Surgery, 1984,
Washington University
Rawson, Kenneth, D.M.D., 2005,
Southern Illinois University; Certificate in
Pediatric Dentistry, 2007,
University of Nevada
Rieken, Susan E., D.M.D., 1995,
Southern Illinois University
Rowland, Kevin, Ph.D., 2003,
West Virginia University
Seaton, William W., D.D.S., 1982,
University of Missouri Kansas City
Sokolowski, Joseph E., D.D.S., 1982,
University of Missouri Kansas City
Steinhauer, Tad J., D.M.D., 1999,
Southern Illinois University
Thomas, Cornell C., D.D.S., 1978,
University of Missouri, Kansas City
Thornton, Charles B., D.M.D., 1974,
Washington University; M.S., 1979,
Saint Louis University

Associate Professors
Belcher, Mark A., D.D.S., 1982,
University of Illinois
Blackwell, Robert L., D.D.S., 1983,
University of Illinois
Dixon, Debra A., D.M.D., 1993,
Southern Illinois University; M.S., 2002,
University of London
Fischer, Gary M., D.M.D., 1982,
Southern Illinois University
Periodontics;Pontifícia Universidade Javeriana
Dental School, Bogota-Colombia
Henley, Gary M., D.D.S. 1985
University of Missouri; M. Ph., 2006
University of Missouri
Hinz, Jessica G., Ph.D., 1997,
University of Missouri
Hoffman, Steven M., D.M.D., 1982,
Southern Illinois University
Hopp, Christa D., D.M.D., 2003,
Southern Illinois University
Joy, Anita, Ph.D., 2010,
Rush University
Ketteman, Daniel E., D.D.S., 1981,
University of Missouri Kansas City
Misischia, Arthur J., D.M.D., 1978,
Washington University; Certificate in Oral &
Maxillofacial Surgery, 1984,
Washington University
Pandarakalam, Cyril, M.D.S., 2007,
Calicut Government Dental College;
Certificate in Orofacial Pain and Oral
Medicine, 2010, University of Southern
California
The School of Dental Medicine also offers Advanced Education in General Dentistry, a one-year certificate program designed to enhance patient care skills acquired during the predoctoral education process. Training is conducted at the Alton campus, the East St. Louis Center and Touchette Regional Hospital. The program includes experiences with special needs patient populations, outpatient sedation, operating room care and training in dental implant techniques.

The dental school offers an implant fellowship as part of its postdoctoral training program. The fellowship is a one-year, non-certificate program that provides intensive training in implant dentistry within a comprehensive patient care environment. Training is conducted at the Alton campus. Clinical, teaching and research experiences are emphasized throughout the program.

Additional advanced dental education opportunities include Master of Science programs in Endodontics and Periodontology with degrees awarded by the St. Louis University Graduate School. These unique programs combine the resources of the SIU School of Dental Medicine and Saint Louis University to educationally qualify the resident for specialty practice in endodontics or periodontology. Training is conducted at both campuses.

The school’s admission committee, on a competitive basis, grants admission to the doctor of dental medicine (D.M.D.) program on completion of specific undergraduate academic requirements, satisfactory achievement on the Dental Aptitude Test, and successful review of the student’s’ credentials.

Combined Arts and Sciences Dental Curriculum (B.S./D.M.D. Honors Program)

A special combined arts and sciences dental curriculum that leads to the degrees of Bachelor of Science and Doctor of Dental Medicine (B.S./D.M.D. Honors Program) is available for students interested in attending Southern Illinois University Edwardsville for their undergraduate degree. The pre-professional part of the curriculum is completed in just three years on the Edwardsville campus, and the four-year professional portion at the School of Dental Medicine in Alton, Illinois. After successful completion of the first year of the combined program, a student is offered a tentative acceptance to the dental school,
provided the student meets and continues to meet or exceed the conditions of the three-year pre-professional program. Students admitted to the School of Dental Medicine at the end of their junior year at SIUE may transfer appropriate credits toward the completion of the requirements for the Bachelor of Arts or Bachelor of Science degree in biological sciences with a specialization in medical science, or a Bachelor of Arts degree in chemistry with a specialization in medical science. For details, see the Biological Sciences and Chemistry sections of this catalog. Students interested in the dental program or the combined baccalaureate in biology/doctorate in dentistry (B.S./D.M.D.) program should write to the Office of Admissions and Records, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002, phone (618) 474-7170.

Degree Programs
Doctor of Dental Medicine (D.M.D.)

Additional Postdoctoral program opportunities include:
- Advanced Education in General Dentistry (AEGD)
- Fellowship in Implant Dentistry

Program Overview and General Department Information
Admission
The absolute minimum prerequisite for admission to the School of Dental Medicine is successful completion of three academic years – 90 semester or 135 quarter hours – of undergraduate coursework, which includes the specified subjects listed below, at a four-year accredited college or university in the United States, Puerto Rico or Canada. The majority of accepted applicants have completed requirements for a Bachelor of Arts or a Bachelor of Science degree prior to matriculation at the School of Dental Medicine. Admission requirements are subject to change. Please contact the School of Dental Medicine directly for the most current admission requirements.

The specific subjects or equivalents which must be included are:

- Inorganic Chemistry 8 semester or 12 quarter hours
- Organic Chemistry 8 semester or 12 quarter hours

Biochemistry 3 semester or 5 quarter hours
*Biology/Zoology 8 semester or 12 quarter hours
*Physics 6 semester or 9 quarter hours

English 6 semester or 9 quarter hours

*These courses must consist of a combination of laboratory and lecture instruction. It is strongly recommended that these courses be taken at a four-year accredited college or university.

The remainder of the predental program should be designed to contribute a broad cultural background; however, the program should not exclude courses related to the S.D.M. curriculum such as anatomy, microbiology, physiology, genetics, etc.

It is possible that a tentative acceptance may be extended subject to fulfillment of these requirements; however, all course requirements, as proposed by the applicant, must be met in full before admission is granted. All academic admission requirements must be completed by July 1, prior to the desired date of matriculation.

Minimal Academic Expectations of Students/Graduation Requirements
All students are expected to progress through the School of Dental Medicine program in good academic standing. Good standing is defined, minimally, as earning:

- Passing grades in all courses (defined as 70.00 percent or higher);
- A minimum semester grade point average of 2.25, in each semester;
- A minimum cumulative grade point average of 2.25;
- Passing grades on all competency exams;
- A minimum requirement of discipline specific and comprehensive patient care points as described in the Student Interactive Learning Progress System (SILPS) document for clinical students in Year III and Year IV;
- Free of academic sanctions.

Note: The dental curriculum is designed to move the student from required foundational knowledge to more advanced clinical applications. As such, each semester presents a fixed set of courses that are prerequisite to the subsequent semester. There is no flexibility
in the schedule of courses and all courses can be offered only one time per academic year. All courses must be successfully completed each semester in order to advance to the next semester. Therefore, a failure in a single course can prevent the promotion of a student.

Single course withdrawals are not permitted. A student must be in good standing to be eligible for unconditional promotion from one academic year to the next and for graduation from the program.

Sample Curriculum for the Doctor of Dental Medicine

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td>DAMT 711 – Medical Terminology .................................................. 1st 9 weeks</td>
<td>DAPH 722 – Pharmacology II ................................................................. 1st 9 weeks</td>
</tr>
<tr>
<td>DILD 711 – Ethical Issues in Dentistry ........................................... 1st 9 weeks</td>
<td>DGBS 722 – Dental Behavioral Science II ............................................... 2nd 9 weeks</td>
</tr>
<tr>
<td>DIEB 711 – Evidence Based Dentistry ................................................. 1st 9 weeks</td>
<td>DGPD 722 – Pediatric Dentistry III ...................................................... 2nd 9 weeks</td>
</tr>
<tr>
<td>DGCP 711 – Cariology, Community &amp; Preventive Dentistry ................................ 1st 9 weeks</td>
<td>DAME 722 – Medical Emergencies .............................................................. 2nd 9 weeks</td>
</tr>
<tr>
<td>DARC 711 – Immunology/Immunopathology ............................................... 2nd 9 weeks</td>
<td>DIPR 722 – Dental Implantology I ............................................................ 2nd 9 weeks</td>
</tr>
<tr>
<td>DROC 718* – Clinical Care II ................................................................... 18 wks.</td>
<td>DIOB 722 – Oral Diagnosis &amp; Physical Evaluation ......................................... 2nd 9 weeks</td>
</tr>
<tr>
<td>DORC 718* – General/Systemic Pathology ............................................. 18 wks.</td>
<td>DAOM 722 – Oral and Maxillofacial Surgery I ............................................ 2nd 9 weeks</td>
</tr>
<tr>
<td>DORC 718** – Grand Rounds ...................................................................... 18 wks.</td>
<td>DIPR 722 – Hard Tissue Oral Pathology .................................................... 2nd 9 weeks</td>
</tr>
<tr>
<td>DRMO 711 – Dental Morphology ................................................................. 8 wks.</td>
<td>DIPR 722 – Oral Radiology ........................................................................... 2nd 9 weeks</td>
</tr>
<tr>
<td>DROD 711 – Operative Dentistry I .............................................................. 18 wks.</td>
<td>DIPR 722 – Introduction to Patient Care II ................................................ 18 wks.</td>
</tr>
<tr>
<td>DISF 711c*** – Musculoskeletal System .................................................... 18 wks.</td>
<td>DIPR 722 – Radiographic Interpretation ...................................................... 18 wks.</td>
</tr>
<tr>
<td>DISF 711d*** – Cardiovascular System ...................................................... 18 wks.</td>
<td>DIPR 722 – Radiographic Interpretation ...................................................... 18 wks.</td>
</tr>
<tr>
<td>DISF 711g*** – Endocrine and Reproductive Systems .................................. 18 wks.</td>
<td>DIPR 722 – Radiographic Interpretation ...................................................... 18 wks.</td>
</tr>
<tr>
<td>*Not graded until end of Semester II</td>
<td>*Course continued from Semester I</td>
</tr>
<tr>
<td>**Pass/Fail course - Credit Hours Issued at end of Semester II</td>
<td>**Pass/Fail course - Course continued from Semester I</td>
</tr>
<tr>
<td>***Systems Structure and Function I (DISF 711a - DISF711g). Courses are scheduled at different intervals throughout the semester.</td>
<td>***Craniofacial Structure and Function I (DICF 712a -DICF712d). Courses are scheduled at different intervals throughout the semester.</td>
</tr>
</tbody>
</table>

*Not graded until end of Semester II                                          **Course continued from Semester I
**Pass/Fail course - Credit Hours Issued at end of Semester II               **Pass/Fail course - Course continued from Semester I

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344 Southern Illinois University Edwardsville
### Sample Curriculum for the Doctor of Dental Medicine continued

#### Fall Semester

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>DGCP 730</td>
<td>Special Needs &amp; Geriatric Dent.</td>
<td></td>
<td>Summer</td>
</tr>
<tr>
<td>DGOR 730</td>
<td>Orthodontics II</td>
<td></td>
<td>Summer</td>
</tr>
<tr>
<td>DITP 730</td>
<td>Treatment Planning</td>
<td></td>
<td>Summer</td>
</tr>
<tr>
<td>DRRP 731</td>
<td>Removable Complete Dentures II</td>
<td></td>
<td>1st 9 wks.</td>
</tr>
<tr>
<td>DIPM 731</td>
<td>Ethics &amp; Jurisprudence in Dental Practice</td>
<td>1st 9 wks.</td>
<td></td>
</tr>
<tr>
<td>DAPI 731</td>
<td>Periodontology III</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DRFP 731</td>
<td>Fixed Prosthodontics III</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DGBS 731</td>
<td>Dental Behavioral Science III</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DAOM 731</td>
<td>Oral and Maxillofacial Surgery II</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DAEN 731</td>
<td>Endodontics</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DIDM 731</td>
<td>Adv. Dental Materials &amp; Oper Dent.</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DIGR 738*</td>
<td>Grand Rounds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DGBS 736*</td>
<td>Clinical Behavioral Science</td>
<td>6 wks.</td>
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</tr>
<tr>
<td>DIPP 736*</td>
<td>Professionalism &amp; Patient Mgmt. I</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DRDA 736*</td>
<td>Clinical Dental Auxiliary Utilization</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAEN 736*</td>
<td>Clinical Endodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAOQ 736*</td>
<td>Clinical Oral Medicine</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAOM 736*</td>
<td>Clinical Oral &amp; Maxillofacial Surgery</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DGPD 736*</td>
<td>Clinical Pediatric Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAPE 736*</td>
<td>Clinical Periodontology</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DRRP 736*</td>
<td>Clinical Removable Prosthodontics</td>
<td>43 wks.</td>
<td></td>
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<tr>
<td>DARA 736*</td>
<td>Clinical Radiology</td>
<td>43 wks.</td>
<td></td>
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<tr>
<td>DROD 736*</td>
<td>Clinical Operative Dentistry</td>
<td>43 wks.</td>
<td></td>
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<tr>
<td>DRFP 736*</td>
<td>Clinical Fixed Prosthodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DGCP 736*</td>
<td>Clinical Community Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
</tbody>
</table>

*Pass/Fail course - Credit Hours Issued at end of Semester II

**Year 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
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</thead>
<tbody>
<tr>
<td>DGPM 740</td>
<td>Dental Practice Management II</td>
<td></td>
<td>Summer</td>
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<tr>
<td>DGPM 741</td>
<td>Dental Practice: A Mgmt. Simulation</td>
<td>18 wks.</td>
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<tr>
<td>DGPD 748</td>
<td>Advanced Pediatric Dentistry</td>
<td>18 wks.</td>
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<tr>
<td>DIPM 746*</td>
<td>Professionalism &amp; Patient Mgmt. II</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DGCP 746*</td>
<td>Adv. Clinical Community Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAEN 746*</td>
<td>Advanced Clinical Endodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DIGR 746**</td>
<td>Grand Rounds</td>
<td>18 wks.</td>
<td></td>
</tr>
</tbody>
</table>

*Not graded until end of Semester II

**Spring Semester**

**Year 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
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</thead>
<tbody>
<tr>
<td>DATH 732</td>
<td>Therapeutics</td>
<td></td>
<td>1st 9 wks.</td>
</tr>
<tr>
<td>DGAS 732</td>
<td>Dental Anxiolysis, Sedation and General Anesthesia</td>
<td>1st 9 wks.</td>
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</tr>
<tr>
<td>DGPM 732a</td>
<td>Dental Practice Management I</td>
<td>1st 9 wks.</td>
<td></td>
</tr>
<tr>
<td>DGPM 732b</td>
<td>Dental Practice Management II</td>
<td>2nd 9 wks.</td>
<td></td>
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<tr>
<td>DAIM 732</td>
<td>Internal Medicine</td>
<td>2nd 9 wks.</td>
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<tr>
<td>DGBS 732</td>
<td>Dental Behavioral Science IV</td>
<td>2nd 9 wks.</td>
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<tr>
<td>DGOR 732</td>
<td>Orthodontics II</td>
<td>2nd 9 wks.</td>
<td></td>
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<tr>
<td>DAPH 732</td>
<td>Applied Pharmacology</td>
<td>18 wks.</td>
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<tr>
<td>DAOM 732</td>
<td>Oral &amp; Maxillofacial Surgery III</td>
<td>18 wks.</td>
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<tr>
<td>DROC 732</td>
<td>Occlusion II</td>
<td>18 wks.</td>
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<tr>
<td>DIPR 738**</td>
<td>Grand Rounds</td>
<td>18 wks.</td>
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</tr>
<tr>
<td>DGBS 736**</td>
<td>Clinical Behavioral Science</td>
<td>36 wks.</td>
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<tr>
<td>DIIP 736**</td>
<td>Professionalism &amp; Patient Mgmt. I</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DRDA 736**</td>
<td>Clinical Dental Auxiliary Utilization</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAEN 736**</td>
<td>Clinical Endodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAOQ 736**</td>
<td>Clinical Oral Medicine</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAOM 736**</td>
<td>Clinical Oral &amp; Maxillofacial Surgery</td>
<td>43 wks.</td>
<td></td>
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<tr>
<td>DGPD 736**</td>
<td>Clinical Pediatric Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAPE 736**</td>
<td>Clinical Periodontology</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DARA 736**</td>
<td>Clinical Radiology</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DROD 736**</td>
<td>Clinical Operative Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DRFP 736**</td>
<td>Clinical Fixed Prosthodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DGCP 736**</td>
<td>Clinical Community Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
</tbody>
</table>

*Pass/Fail course - Course continued from Semester I

**Year 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISC 742</td>
<td>Advanced Topic Selectives</td>
<td>2nd 9 wks.</td>
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</tr>
<tr>
<td>DGPD 748*</td>
<td>Advanced Pediatric Dentistry</td>
<td>18 wks.</td>
<td></td>
</tr>
<tr>
<td>DIPM 746*</td>
<td>Professionalism &amp; Patient Mgmt. II</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DGCP 746*</td>
<td>Adv. Clinical Community Dentistry</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DAEN 746*</td>
<td>Advanced Clinical Endodontics</td>
<td>43 wks.</td>
<td></td>
</tr>
<tr>
<td>DIGR 746**</td>
<td>Grand Rounds</td>
<td>18 wks.</td>
<td></td>
</tr>
</tbody>
</table>

*Course continued from Semester I

**Pass/Fail course - Course continued from Semester I

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*Not graded until end of Semester II

**Pass/Fail course - Credit Hours Issued at end of Semester II

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2018-2019 Undergraduate Catalog 345
GRADUATE SCHOOL

Jerry B. Weinberg, PhD
Associate Provost for Research and
Dean of the Graduate School
Graduate School
Rendleman Hall, Room 2215
siue.edu/graduate/

The Graduate School of Southern Illinois University Edwardsville is committed to promoting graduate education and research of the highest quality. Its mission is to provide high-quality programs, foster intellectual development, and facilitate excellence in research and scholarly and creative activities. Sixteen percent of the students at the University are enrolled in graduate programs and specializations. Programs and specializations leading to master’s degrees, specialist degrees, and post-baccalaureate and post-master’s certificates are listed below. For admission information, go to Rendleman Hall, Room 2120, or visit siue.edu/graduate-admissions.

Master of Arts
Applied Communication Studies
Art Therapy Counseling
Biological Sciences
Economics and Finance
English/American and English Literature
English/Teaching English as a Second Language
English/Teaching of Writing
History
Integrative Studies
Psychology/Clinical-Adult
Psychology/Industrial-Organizational
Sociology

Master of Business Administration
Business Administration
Business Administration/Management
Information Systems

Master of Fine Arts
Art Studio
Creative Writing

Master of Marketing Research

Master of Music
Music/Music Education
Music/Music Performance

Master of Public Administration

Master of Science
Biological Sciences
Chemistry
Civil Engineering
Computer Management and Information Systems
Computer Science
Economics and Finance

Electrical Engineering
Environmental Sciences
Geography
Healthcare Informatics
Industrial Engineering
Integrative Studies
Options available:
  Applied Environmental and Communication Studies
  Cultural Education Advocacy
  Cultural Heritage and Resources Management
  Engineering Management
  GIS Development and Database Administration
  Information Systems and Graphic Design Media Management
  Organizational Design Thinking
  Sustainability
  Kinesiology-Exercise and Sport Psychology
  Kinesiology - Exercise Physiology
  Mass Communications
  Mathematics
  Mechanical Engineering
  Nursing/Health Care and Nursing Administration
  Nursing/Nurse Educator
  Pharmaceutical Sciences
  Psychology/Clinical Child and School Psychology
  Speech-Language Pathology

Master of Science in Accountancy
Accountancy
Accountancy/Taxation

Master of Science in Education
College Student Personnel Administration
Curriculum and Instruction
Options available :
  Advanced Pedagogy
  STEM Education
  Secondary Education/Art
  Secondary Education/Biology
  Secondary Education/Chemistry
  Secondary Education/Earth and Space Sciences
  Secondary Education/English/Language Arts
  Secondary Education/Foreign Languages
  Secondary Education/History
  Secondary Education/Mathematics
  Secondary Education/Physics

Educational Administration
Instructional Technology
Kinesiology - Physical Education and Coaching Pedagogy
Learning, Culture and Society
Literacy Education
Special Education

Master of Social Work
Social Work
Social Work/School Social Work

Professional Science Master’s
Environmental Science Management

Specialist Degrees
Educational Administration
School Psychology

Post-Master’s Certificates
Literacy Education/Literacy Specialist
Nursing/Health Care and Nursing
  Administration
Nursing/Nurse Educator

Post-Baccalaureate Certificates
English/Teaching English as a Second Language
English/Teaching of Writing
History/Museum Studies
Instructional Technology/Classroom Technologies
Instructional Technology/Web-Based Learning
Integrative Studies
  Options Available:
    Marketing and Public Relations
    Sustainability
    Transportation Engineering and Construction Management
Mass Communications/Media Literacy
Music/Piano Pedagogy
Music/Vocal Pedagogy

Doctoral Programs
(Degree conferred by Southern Illinois University Edwardsville)
Doctor of Nursing Practice/Family Nurse Practitioner
Doctor of Nursing Practice/Nurse Anesthesia
Doctor of Education/Educational Leadership

Cooperative Doctoral Programs
(Degree conferred by Southern Illinois University Carbondale)
Doctor of Philosophy degree in Computer Science
Doctor of Philosophy degree in Engineering Science
Doctor of Philosophy degree in Environmental Resource and Policy
Doctor of Philosophy degree in History

For more information on gainful employment programs at SIUE, please visit www.siue.edu/financialaid/certificate-programs2014.shtml
Non-Traditional Credit Programs and Services

Educational Outreach
The Office of Educational Outreach provides support services and ensures compliance to state and federal regulations for departments and students who participate in off-campus classes or corporate partnership agreements. Faculty and students should contact this office for help with matters related to instruction and attendance at off-campus classes. SIUE, working with community colleges, other universities and businesses, may host courses delivered to or from SIUE via technology-mediated instruction. For schedules of classes being offered off-campus and for information about enrolling in these classes, students may contact Educational Outreach, Campus Box 1084, SIUE, Edwardsville, IL 62026-1084, phone 618-650-3215, or email mawalke@siue.edu.

Web-Based Courses
Web-based courses deliver 100 percent of course content online. Web courses require access to a computer with an Internet connection and a Web browser. The technical requirements for Web courses and a self-assessment tool can be found at siue.edu/online.

Blended Courses
Web-based courses deliver 100 percent of course content online. Web courses require access to a computer with an Internet connection and a Web browser. The technical requirements for Web courses and a self-assessment tool can be found at siue.edu/online.

Off-Campus Classes, Credit
Selected degree programs, identical to on-campus programs in academic content, may be offered at various off-campus locations. University credit courses may also be offered at sites in order to meet particular educational needs in various communities. The Office of Educational Outreach assists departments to comply with state reporting and federal campus safety mandates for off-campus courses. The office also may assist with marketing and recruitment efforts as well as admission, registration, fee payment and financial aid inquiries. Faculty and students are invited to contact this office for help with matters related to off-campus classes. Educational Outreach serves as a liaison between off-campus students and University offices. Institutions, agencies, or organizations interested in off-campus courses should contact: Office of Educational Outreach at Campus Box 1084, SIUE, Edwardsville, IL 62026-1084, phone 618-650-3215 or email mawalke@siue.edu.

SIUE Transfer Services Office at Southwestern Illinois College
The SIUE Transfer Services Office at Southwestern Illinois College (SWIC) provides area residents with a wide range of services, including information about SIUE degrees and programs, onsite academic advisement for students interested in transferring to SIUE, assist students in SIUE application process and answer questions about SIUE. It is located in Main Complex, Room 1070 and open during regular business hours. To contact the Coordinator of Academic Services and Partnership Program Advising, Roxie Renner, in the SIUE Transfer Services Office, call 618-222-5335 or 618-650-2630, or email rrenner@siue.edu.

SIUE Transfer Services Office at Lewis and Clark Community College
The SIUE Transfer Services Office at Lewis and Clark Community College (LCCC) provides area residents with a wide range of services, including information about SIUE degrees and programs, onsite academic advisement for students interested in transferring to SIUE, assist students in SIUE application process and answer questions about SIUE. It is located in Haskell Hall, Room B07 and open during regular business hours. To contact the Coordinator of Academic Services and Partnership Program Advising, David Shifflet, in the SIUE Transfer Services Office, call 618-468-2628 or 618-650-2660, or email dshiffl@siue.edu.
Environmental Resources Training Center

In 1977, the Environmental Resources Training Center (ERTC) was designated by the Illinois Environmental Protection Agency (IEPA) as the Illinois Training Center for Water Treatment Technology. The training is designed for personnel who are involved in the operation, maintenance, and management of drinking water and wastewater treatment systems. ERTC courses were developed to provide entry-level personnel preparing for a career in drinking water and wastewater treatment systems, and to provide persons already employed in the water industry the opportunity to obtain additional education to upgrade job skills or prepare for more responsible positions. ERTC also offers courses for licensed plumbers in cross connection control. Persons who complete ERTC courses are awarded Renewal Training Credits (RTCs) by the University and receive education credits recognized by the IEPA, Missouri DNR and additional states. The RTCs are applicable towards professional certifications as drinking water or wastewater treatment system operators or in cross connection control device inspectors.

The ERTC Water Quality Control Operations program is a one-year, 35-40 hour-per-week program of study leading to a certificate of completion. Upon completing the program, a student is eligible to take the Illinois and Missouri professional certification exams to become certified as a entry-level public water supply operator and wastewater treatment system operator. The learning environment for the students consists of a combination of classroom and hands-on operation of the one-of-a-kind 30,000-gallon per-day training-scale drinking water and wastewater treatment plants housed at ERTC. More than 600 people have graduated from this program since it began in 1981. About 85 percent of them have obtained employment in the drinking water and/or wastewater treatment systems field. About 70 percent of the employed graduates work in Illinois and the St. Louis Metro area; students also find employment throughout the nation.

Admission and Retention

ERTC considers individual potential when granting admission to the program. Admission to ERTC requires a high school graduation or a GED Certificate. Applicants must also submit a written self evaluation and two personal references. Students must remain in good academic standing by maintaining a cumulative 2.00 (on a 4.00 scale) grade point average to be retained in the program, and to be eligible for an internship.

Curriculum for the Water Quality Control Operations Certificate Program

The program emphasizes practical training during 35-40 contact hours per week. The practical aspects of drinking water and wastewater treatment presented in lecture sessions are supplemented by actual experience in laboratories, shops, training-scale treatment plants, and actual treatment plants. A 10-week supervised work study internship is an integral part of the program.

All students enroll in an internship in a public water supply and/or wastewater treatment system.

The courses taken each term are as follows:

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lect.</th>
<th>Lab</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTC 101 Wastewater Operations I</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>ERTC 102 Water Supply Operations I</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>ERTC 103 Water Quality Laboratory I</td>
<td>2</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>ERTC 105 Mechanical Maintenance</td>
<td>3</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>ERTC 106 Water Quality Math and Science</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td><strong>18</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Lect.</th>
<th>Lab</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTC 201 Wastewater Operations II</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>ERTC 202 Water Supply Operations II</td>
<td>4</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>ERTC 203 Water Quality Laboratory II</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>ERTC 205 Electrical/Instrumentation Maint</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>ERTC 207 Water Quality Communications</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>ERTC 208 System Maintenance</td>
<td>2</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
<td><strong>20</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer Term</th>
<th>Lect.</th>
<th>Lab</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERTC 300 Supervised Work Study</td>
<td>40 hours per week for 10 weeks</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Career Opportunities

Demand is continually growing for operators who provide safe drinking water and maintain the water quality of our rivers and streams. As a result, the need can be expected to increase for skilled operators of drinking water and wastewater treatment systems. Persons interested in becoming a skilled operator should consider enrollment in the ERTC Water Quality Control Operations certificate program.

Application for Admission

Applications for admission to the ERTC program should be made directly to the ERTC. More information and application forms may be obtained by writing to the Director,
Environmental Resources Training Center, Box 1075, SIUE, Edwardsville, IL 62026-1075, by phone at (618)650-2030, by fax at (618) 650-2210, or at siue.edu/ertc.

For more information on gainful employment programs at SIUE, please visit siue.edu/financialaid/certificate-programs2014.shtml.

Class Enrollment
Enrollment is limited to 35 students per academic year. Entry into the program is in the fall semester only.

Water Quality Control Operations Program Course Summary

ERTC 101 Wastewater Operations I — Introduction to physical, chemical, and biological treatment processes for wastewater is provided. The treatment processes covered include preliminary, primary, fixed film, stabilization ponds, and activated sludge. Additional topics covered include rules and regulations related to wastewater treatment operator certification, sources, characteristics, and public health aspects of wastewater.

ERTC 102 Water Supply Operations I — Surface water treatment procedures are provided for the production of safe and acceptable drinking water from lakes and rivers. Specific topics covered include preliminary treatment, clarification, filtration, disinfection, taste and odor control, and corrosion control. Field trips to surface water treatment systems are provided. The extensive operation of the ERTC training-scale treatment plants is used to obtain hands-on experience related to the operation and maintenance of actual drinking water treatment plants.

ERTC 103 Water Quality Laboratory I — Basic introduction to chemistry and microbiology for the analysis of drinking water and wastewater. Topics include the proper care and use of glassware, equipment and chemicals; laboratory safety; laboratory techniques; and specific analytical techniques for selected drinking water and wastewater parameters.

ERTC 105 Mechanical Maintenance — Introduction to the operation and maintenance of mechanical equipment in drinking water and wastewater treatment systems is provided. This equipment includes centrifugal and positive displacement pumps, blowers, air compressors, motors, and speed reducers. Topics include lubrication, valves, bearings, connections, safety, proper use of tools and equipment, and maintenance documentation.

ERTC 106 Water Quality Mathematics and Science — Review of basic mathematics and an introduction to drinking water and wastewater treatment system process control calculations to include chemical feed calculations. An introduction is provided to the science used in drinking water and wastewater treatment systems.

ERTC 201 Wastewater Operations II — The wastewater treatment processes covered include advanced activated sludge, aerobic and anaerobic digestion, sludge handling, sludge disposal methods, physical-chemical treatment, tertiary and industrial treatment systems. Field trips are provided to wastewater treatment plants. The ERTC pilot plant is used to provide practical experience related to the operation and maintenance of wastewater treatment plants.

ERTC 202 Water Supply Operations II — Groundwater treatment procedures are provided for the production of safe and acceptable drinking water from wells. Topics covered include iron and manganese control, operation and maintenance of wells, softening, fluoridation, process waste disposal, reverse osmosis, and ozonation. Field trips to ground water treatment plants are provided. The ERTC pilot plant is used to provide practical experience related to the operation and maintenance of water treatment plants.

ERTC 203 Water Quality Laboratory II — Continuation of ERTC 103 with additional applications of chemistry and microbiology for the analysis of drinking water and wastewater. Topics include laboratory management, quality control, record keeping, and specific analytical techniques for selected drinking water and wastewater parameters.

ERTC 205 Electrical/Instrumentation Maintenance — Introduction to the operation and maintenance of electrical and instrumentation equipment in drinking water and wastewater treatment systems. This equipment includes motors and their control systems, flow measurement systems, and water level indication systems. Topics include safety, proper use of electrical testing equipment, troubleshooting, calibrating procedures, and the use of electrical schematics and wiring diagrams. Site visits to electrical and instrumentation systems are provided.

ERTC 207 Water Quality Communications — Introduction to microcomputer applications to include word processing, file systems, and
Continuing Education Courses
Each year, the ERTC presents about 50 continuing education courses for operators and managers of drinking water and wastewater treatment systems and licensed plumbers for cross connection control training. These courses assist in upgrading job skills and in preparing for state certification exams administered by the Illinois Environmental Protection Agency. They include evening courses at the ERTC facility and in the Chicago area, and daytime workshops and seminars throughout Illinois. A complete list of the courses currently being taught by the ERTC staff can be found at the website at siue.edu/ertc/. The Training Center also offers IEPA approved correspondence courses. Persons interested in enrolling in any of the ERTC courses should call the Center at 618-650-2030, send a fax to 618-650-2210, or email marcweb@siue.edu. Online registration for ERTC courses is also available at https://commerce.cashnet.com/siuemisc.

ERTC 208 System Maintenance — Introduction to the operation and maintenance of wastewater collection and drinking water distribution systems. Topics include safety, construction, inspection, cleaning, service connections, water main disinfection, records, public notices, sampling procedures, flushing hydrants, meters, cross connection control, and water storage. Field trips are used to demonstrate current practices.

Supervised Work Study (Internship) — This course is a 10-week work experience in drinking water and wastewater treatment systems. This work experience is coordinated by an ERTC staff member and is directly supervised by personnel employed at each treatment plant. A daily log, written report, and oral report describing this experience are prepared and presented to the ERTC staff at the conclusion of the work experience.

Non-Credit Programs and Services

Conferences, Workshops, and Institutes
The Office of Educational Outreach provides specialized program planning services, career/professional development program record keeping, and logistical arrangements for University faculty and staff as well as for private business, professional organizations, government agencies, and community groups. The attractive, convenient, well-equipped facilities of the University provide an excellent setting for all types of meetings, seminars, workshops, continuing education programs, and special events. For more information, call 618-650-3210, or cgorsag@siue.edu.

Continuing Education Units
Continuing education units (CEUs) and Continuing Professional Development Units (CPDUs) reflect participation in approved Continuing Education activities for licensed professionals. The Office of Educational Outreach processes requests to offer CEUs and maintains master files of all CEU approved activities as well as participant records. For information about CEUs or to request confirmation of CEU participation, contact the Office of Educational Outreach, Campus Box 1084, SIUE, Edwardsville, IL 62026-1084, call 618-650-2164, or email cgorsag@siue.edu.

Educard
The Educard program enables persons not enrolled at SIUE to attend selected classes on a space-available basis at a modest fee. No credit is earned, and no official University record is kept of Educard participation, but Educard learners may obtain a courtesy library card and may borrow undergraduate textbooks for the term they attend. For information about Educard policies and restrictions, or information about registering for Educard classes, contact the Office of Educational Outreach at 618-650-3210, or outreach@siue.edu.

Leisure Learning Activities
Designed for adults of all ages, these activities provide opportunities for personal enrichment and leisure-time learning. Leisure learning
activities include many language courses such as German, Italian, Japanese, and Spanish, and a variety of other special-interest courses. To receive a schedule of leisure learning activities or to register for leisure learning activities, contact the Office of Educational Outreach at 618-650-3210, or outreach@siue.edu. A complete list of leisure learning activities can be viewed at siue.edu/educationaloutreach.

Lifelong Learning Activities
Sponsored by the Office of Educational Outreach, Lifelong Learning programs are offered both on and off campus and offer a variety of stimulating and educational lectures utilizing the gifts of SIUE faculty, staff, students, alumni, and community members. For details about these activities, contact the Office of Educational Outreach at 618-650-3215 or email mawalke@siue.edu. A complete list of lifelong learning activities appears at siue.edu/educationaloutreach.

Community Services

Arts & Issues
Arts & Issues is a performing arts and speaker series that supports the academic mission of the university. Free tickets are available for SIUE students for each Arts & Issues event. Students often meet and discuss issues with these renowned speakers in workshops, receptions and classes. Students in music, theater and dance work directly with visiting artists in master classes. More information is available at artsandissues.com.

Community Services

East St. Louis Center
As part of SIUE’s commitment to community and public service in southwestern Illinois, the East St. Louis Center’s mission is to improve the quality of life for individuals and families in East St. Louis and surrounding urban communities. The center, through research, identifies urban community needs and opportunities. The center plays a role in SIUE’s baccalaureate, professional, and master’s programs by supporting clinical and practicum experiences. It assigns first priority to encouraging, supporting, and improving the educational success of the residents of East St. Louis and surrounding urban communities. And it provides comprehensive programs, services and training in education, health, social services, and the arts.

The East St. Louis Center is the site of community service programs and activities that address a variety of public school and preschool-age children’s needs. The center also encourages and helps potential college students, seeks to enhance the cultural and aesthetic values of those within the community, and fosters community involvement. Notable among the center’s public service efforts are the Head Start/Early Head Start programs, Upward Bound, The East St. Louis Charter High School, and the East St. Louis Center for the Performing Arts (formerly the Katherine Dunham Center for the Performing Arts).

The East St. Louis Center is on the East St. Louis Higher Education Campus. Also on the campus are three health-care facilities that provide services for citizens of metropolitan East St. Louis and Missouri. They are the Dental Clinic, supported by the School of Dental Medicine; Community Nursing Services, supported by the School of Nursing; and the Optometry Clinic, supported by the University of Missouri-St. Louis School of Optometry in conjunction with SIUE. Also on site are the Clinical Practice Offices supported by SIUE School of Pharmacy, and the Small Business Development Center, supported by the SIUE School of Business.

Office of Educational Outreach
The Office of Educational Outreach enriches the economic, cultural, personal, and professional lives of a diverse society, eliminating barriers to expand the educational resources of SIUE.

Office of Educational Outreach at 618-650-3215 or email mawalke@siue.edu. A complete list of lifelong learning activities appears at siue.edu/educationaloutreach.
We promote learning by providing accessible educational opportunities through the agile development of relevant, collaborative programs and partnerships.

**Summer Camps**
The Office of Educational Outreach provides logistical support for SIUE summer youth camps on campus, as well as for certain private business, professional organizations, government agencies, community groups and grant-based programs. This specialized support can be multitiered from registrations to complete logistical oversight for each program. For details, call 618-650-3210, or email outreach@siue.edu.

**International Trade Center**
Alumni Hall, Room 2126
siue.edu/business/itc

The Illinois SBDC International Trade Center works directly with manufacturing and service businesses in Southern Illinois, helping them to increase sales through exporting. The center offers assistance in assessing client readiness for international sales, guiding clients through the many requirements necessary to enter into foreign markets, obtaining trade leads, market research, trade show participation, and arranging student projects related to international business. The center accomplishes these objectives through one-on-one counseling, training seminars, and workshops. The center works closely with other export assistance programs offered by the state and federal governments and by private organizations. The center is supported by a Small Business Administration grant from the Illinois Department of Commerce and Economic Opportunity as well as SIUE resources and services. Interested parties should contact the International Trade Center at 618-650-2452, 618-650-3851, international-trade-center@siue.edu, at siue.edu/business/itc.

**Labor and Management Programs (LAMP)**
Labor and Management Programs (LAMP) promotes labor and management cooperation in southwestern Illinois through a variety of services. These services foster information sharing, communication, and problem solving, which help to strengthen labor management relationships and economic development in the region. By drawing on the faculty, staff and resources of the University, Labor and Management Programs provides services such as:

- advising and supporting an area labor management committee;
- sponsoring educational seminars and conferences;
- providing work-site change resources and materials;
- coordinating training and educational programs;
- facilitating and coordinating problem solving and conflict resolution activities.

Those interested in these services may contact Labor and Management Programs at (618)650-2681 or mfinkel@siue.edu.

**SIUE Small Business Development Center**
Alumni Hall 2126 and SIUE East St. Louis Higher Education Center, Building D Room 1017
siue.edu/business/sbdc

The SIUE School of Business hosts two Small Business Development Center offices (SBDC) — one on the SIUE main campus and the other at the SIUE East St. Louis Higher Education Center. Both centers benefit the 9 Southwestern Illinois counties business communities by providing premiere business counseling and assistance to prospective and current small business owners and entrepreneurs throughout the nine counties surrounding the Edwardsville Campus. SBDC services include, but are not limited to, assisting small businesses with financial, marketing, production, organization, and technical issues, and feasibility studies. The SBDC also strives to reach socially and economically disadvantaged groups, veterans, women and the disabled, to help meet entrepreneurial aspirations.

**WSIE Radio Station**
Serving southwestern Illinois and the St. Louis metropolitan area, WSIE-FM (88.7, The Sound) went on the air in September 1970 as a 50 kilowatt FM station which provides quality music, news, public affairs programming, SIUE sports and student programming for a diverse listenership. WSIE broadens the visibility of SIUE while enhancing its image as an essential regional resource. As part of its overall educational mission, WSIE-FM offers practical training in the latest audio technologies for students, affording those student opportunities to work alongside industry professionals. WSIE-FM staff members encourage high academic standards and development of professional responsibility within a framework of creativity and freedom of artistic expression.
University Policies

Alcohol and Drug Policies
Each year, in accordance with the Drug-Free Schools and Communities Act of 1989, SIUE advises students and employees of its policies in compliance with local, state, and federal laws governing controlled substances, illegal drugs, and alcoholic beverages. Information is provided about the health effects of drug and alcohol use, penalties for violating applicable laws or university policy, and educational and referral program assistance provided by the university.

Alcohol Notification and Violence Disclosure
The Family Educational Rights and Privacy Act permits institutions of higher education to disclose to parents or legal guardians of a student under the age of 21 years information regarding the violation of any federal, state, or local law, institutional disciplinary rule or policy regarding the use or possession of alcohol or a controlled substance. Further, the act permits institutions of higher education to disclose limited information from disciplinary records of students who have admitted to or been found guilty of a crime of violence where the records directly relate to such misconduct.
Recognizing that disclosure is permitted rather than required, SIUE will notify the parents of students under the age of 21 years regarding the violations of any federal, state, or local law or university disciplinary rules or policies pertaining to the use or possession of alcohol or a controlled substance at the discretion of the Vice Chancellor for Student Affairs or his or her designee.

Affirmative Action and Equal Opportunity
SIUE is committed to affirmative action and equal opportunity for all persons in regard to its academic and educational programs and services offered to the university community. SIUE administers its activities, programs, services, and educational and employment opportunities without regard to an individual’s age, color, disability, marital status, national origin, race, religion, sex, sexual orientation, veteran status, or other prohibited basis.
Responsibility for this area is assigned to the Office of Equal Opportunity, Access, and Title IX Coordination, which is charged with developing and maintaining the necessary programs, records, and reports to comply with applicable state and federal statutes and regulations, and with carrying out the goals and objectives of affirmative action and equal opportunity.
Anyone seeking more information about SIUE’s Affirmative Action Plan and equal opportunity should contact the Office for Equal Opportunity, Access, and Title IX Coordination, Room 3310, Rendleman Hall, Box 1025, SIUE, Edwardsville, IL, 62026-1025, 618-650-2333, EOA-TitleIX@siue.edu.

Fair Practice
SIUE maintains fair and reasonable practices in all matters affecting students: the delivery of educational programs, provision of support services, and due process with regard to disciplinary matters and the handling of grievances and complaints. In addition, the university endorses the basic principles of the codes of ethics issued by the American Association of Collegiate Registrars and Admissions Officers and by the National Association of College and University Business Officers. Information about fair practices may be obtained from the Offices of the Provost and Vice Chancellor for Academic Affairs, the Vice Chancellor for Student Affairs, and the Office of Equal Opportunity, Access and Title IX Coordination, Room 3310, Rendleman Hall, SIUE Campus, Box 1025, Edwardsville, IL, 62026-1025.

Notification of Students Involved in Violent Crime
SIUE will release the following information, upon request: the name of person(s) found to have committed a violent crime, the type of crime committed, the final disposition of the disciplinary process, and the sanction imposed. Students found responsible for such violations of the Student Code of Conduct which are considered “crimes of violence” as referred to in the Family Education Rights and Privacy Act (FERPA) [20 U.S.C. §1232g(b)(6)], will be notified of the University’s policy regarding the release of this information.
Statement on Right to Privacy and Nondisclosure

Under the Family Educational Rights and Privacy Act (FERPA), all students have certain rights with respect to their education record. These rights include:

1. The right to inspect and review their official SIUE records in accordance with provisions of the aforementioned act and within the University guidelines. Inquiries regarding the Family Educational Rights and Privacy Act of 1974 should be directed to the Office of the Registrar.

2. The right to request the amendment of the education record that the student believes is inaccurate, misleading, or otherwise a violation of student’s privacy rights under FERPA. A student who wishes to ask the University to amend a record should write to the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. The University will notify the student in writing of the decision and hearing procedures if appropriate.

3. The right to provide written consent before the University discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent.

4. The University discloses education records without a student’s prior written consent to school officials with a legitimate educational interest. A school official is a person employed by the University in an administrative, supervisory, academic or research, support staff position (including law enforcement unit personnel and health staff); a person or organization with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, collection agent, or clinical/practicum site personnel); University-related organizations; or students assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University. Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll. The university may make accessible to any person directory information concerning students unless such release violates state and/or federal regulations. For example, in accordance with the Southern Illinois University Management Act, the University will not release a student’s personal identifying information to a business or financial institution that issues credit or debit cards, unless the student is 21 years of age or older.

5. Directory Information includes:
   - Student name
   - Student address and telephone number (local and permanent)
   - Student e-mail address
   - Major field of study
   - Classification
   - Dates of attendance
   - Full or part-time status
   - Attempted hours
   - Degrees and awards received
   - Most recent educational agency or institution attended prior to enrollment at SIUE
   - Participation in officially recognized activities or sports
   - Weight or height of members of athletic teams
   - Date of birth

Students may object to the release of their directory information by submitting a Directory Information Release form. This form is found in the Service Center or online at siue.edu/registrar/forms/pdf/DirectoryInformationRelease.pdf. SIUE publishes a web directory located at siue.edu/search/index.shtml. The information in the directory is refreshed once in fall and once in spring. To ensure exclusion from this online publication, the Directory Information Release form must be on file by the end of the first week of the semester during which the objection is to go into effect. Once filed, requests to withhold directory information will remain in effect until the student submits a written cancellation of the request.

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

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901
Note: The University’s complete Policy on Release of Student Information and Access to Student Records may be found at siue.edu/policies/3g2.shtml.

Annual Security and Fire Safety Report
The SIUE Annual Security and Fire Safety Report is available online at siue.edu/securityreport. The report contains campus safety and security information, crime statistics, fire safety policies, and fire statistics for the previous three calendar years. This report is published in compliance with Federal law, titled the “Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act” and the Higher Education Opportunity Act, also known as the “Campus Fire Safety Right to Know.” The report is also available for review at the Lovejoy Library Circulation Desk at SIUE; the Biomedical Library Circulation Desk on the SIU School of Dental Medicine Campus in Alton, Ill.; the SIUE Satellite Police Station at the East St. Louis Higher Education Campus in East St. Louis, Ill.; the Medical Library on the SIU School of Medicine Campus in Springfield, Ill.; and the Morris Library Circulation Desk at SIUC. For those without computer access, a paper copy of the report may be obtained, with a 24-hour notice, from the Office of the Vice Chancellor for Administration, Rendleman Hall, Room 2228, 618-650-2536.

University Religious Observances Act
The University Religious Observances Act (110 ILCS 110) prohibits institutions of higher education from discriminating against students for observing religious holidays or religious practices in regard to admissions, class attendance, scheduling of examinations and work requirements. Under the Act, “religious observance” or “religious practice” includes all aspects of religious observance and practice, as well as belief. Section 1.5 of the Act provides as follows, “Any student in an institution of higher learning, other than a religious or denominational institution of higher learning, who is unable, because of his or her religious beliefs, to attend classes or to participate in any examination, study, or work requirement on a particular day shall be excused from any such examination, study, or work requirement and shall be provided with an opportunity to make up the examination, study, or work requirement that he or she may have missed because of such absence on a particular day; provided that the student notifies the faculty member or instructor well in advance of any anticipated absence or a pending conflict between a scheduled class and the religious observance and provided that the make-up examination, study, or work does not create an unreasonable burden upon the institution. No fees of any kind shall be charged by the institution for making available to the student such an opportunity. No adverse or prejudicial effects shall result to any student because of his or her availing himself or herself of the provisions of this Section.”

Any student who believes he or she has been unreasonably denied an educational benefit due to his or her religious belief or practices may seek redress with the professor of the class or with a University administrator or may file a complaint with the Office of Equal Opportunity, Access and Title IX Coordination (EOA), Room 3310, Rendleman Hall, Box 1025, SIUE, Edwardsville, IL, 62026-1025, (618) 650-2333. The EOA complaint procedure is posted on the SIUE website at siue.edu/policies/2c8.shtml. Moreover, the student may file a grievance pursuant to the Student Grievance Code. The code is posted on the SIUE website at https://www.siue.edu/policies/3c3.shtml.

With respect to student work requirements, a student who believes that his or her religious belief or practice has not been reasonably accommodated may seek redress with the supervisor of the unit in which the student is employed, or may file a complaint with the Office of Equal Opportunity, Access and Title IX Coordination (EOA), as discussed above.

Student Social Conduct, Student Academic Conduct, Student Grievance
Students enrolling in SIUE assume responsibility for conduct compatible with the learning environment of the University. Students are expected to be familiar with the Student Code of Conduct, Student Academic Code, and Student Grievance Code. These policies describe the University’s expectations for student conduct, sanctions imposed for violations of these standards, and the procedures which students may follow in filing grievances.

The University gives high priority to matters of academic ethics and abhors all types of cheating, including plagiarism. Plagiarism is the act of representing the work of another as one’s own and may consist of copying or otherwise using written or oral work of another without proper acknowledgement of the source. Instructors may impose sanctions for academic cheating in accordance with the
Student Academic Code. Students who wish to understand matters relevant to academic ethics and plagiarism should consult their advisors or instructors.

Copies of the codes are available in the Office of the Vice Chancellor for Student Affairs, the Office of the Provost and Vice Chancellor for Academic Affairs, the Graduate School, the Service Center, and in the Office of the Dean, School of Dental Medicine. An electronic version of the Code of Student Conduct can also be found at siue.edu/policies/3c1.shtml.

SIUE Policy Prohibiting Sexual Harassment

Sexual harassment in higher education is illegal. Everyone has the right to attend a college or university free from sexual harassment. The Illinois Human Rights Act makes it unlawful for teachers, professors, faculty members and other employees of colleges and universities to sexually harass their students. The Act specifically prohibits unwelcome advances or conduct of a sexual nature, and requests for sexual favors of students by an executive, faculty member, administrative staff member, or teaching assistant. The Act covers all public or private universities, colleges, community colleges, junior colleges, business schools, and vocational schools.

Examples of Sexual Harassment in Higher Education:

1. A professor who continually makes jokes of a sexual nature in the classroom;
2. A registration advisor who tells a student he or she might be able to get into a class if the student dates the advisor;
3. An admissions officer who tells a prospective student that the advisor will put in a “good word” for the prospective student if he or she dates the advisor;
4. A financial assistance advisor who tells a student that “if you have sex with me, I can look out for scholarships for you;”
5. A teaching assistant who promises a student a better grade if the student does not resist any inappropriate touching or sexual advances.

Protection Against Retaliation: It is unlawful for a teacher or professor, or for the college or university, to retaliate against a student because the student reported sexual harassment, participated in an investigation of sexual harassment, or because the student filed a charge of discrimination with the Illinois Department of Human Rights.

What to Do: Any student who believes he or she is being subjected to sexual harassment or retaliated against, or anyone seeking more information about SIUE’s Sexual Harassment Policy can contact the Office of Equal Opportunity, Access, and Title IX Coordination, Room 3310, Rendleman Hall, Box 1025, SIUE, Edwardsville, IL 62025-1025, (618) 650-2333 or email cmartaa@siue.edu. The SIUE Sexual Harassment Policy is available online at siue.edu/policies/2c5.shtml.

Any student who believes he or she is being subjected to sexual harassment or retaliated against should contact the Illinois Department of Human Rights for more information or to file a charge. Students may contact the Department at (312) 814-6200 (Chicago) or (217) 785-5100 (Springfield), (866) 740-3953 (TTY); or by visiting the Department’s website: illinois.gov/dhr. Any charge alleging sexual harassment in higher education must be filed within 180 days of the alleged incident(s). Charge forms are available on the Department’s website: illinois.gov/dhr/FilingaCharge/Pages/Education.aspx.
University Facilities

Art and Design Buildings (AD)
Studios and offices for Painting, Drawing, Art Education, Art Therapy, Art History, 2D, Graphic Design, Textiles, Photography, Printmaking, Metals, Sculpture, Ceramics, and Glass, are located in the Art & Design Buildings. The Art & Design Complex is made up of two buildings, Art and Design East and West, connected on the second floor by an enclosed bridge.

Biotechnology Laboratory Incubator (BL)
The Biotechnology Laboratory Incubator (BL) building was built in 2006 and is located in University Park. The BL is owned by University Park Inc. and includes a Biology class laboratory, the GIS offices and a research space for the School of Pharmacy.

Birger Hall (BH)
Dedicated in the fall of 2000, B. Barnard Birger Hall is home to the SIUE Alumni Association, SIUE Foundation and Office of Development and Public Affairs. The 12,000 square-foot facility is named for B. Barnard Birger, a longtime supporter of SIUE.

Bluff (BR), Prairie (PR), Woodland (WR) Halls
Three residence halls — Bluff, Prairie and Woodland — are designed to house 500 students each. Student residential areas are designed in clusters with two student rooms sharing a common bath. Facilities include an open-access computer laboratory, study areas, meeting rooms, laundry, and recreation and activity space. Prairie and Woodland Halls are located south of the central academic core; Bluff Hall is west of the Engineering Building.

Center for Spirituality and Sustainability (RC)
Just southwest of the academic core, a visually arresting geodesic dome structure designed by R. Buckminster Fuller houses this center, funded with private donations.

Cougar Village (CV)
Cougar Village is a 496-unit apartment complex that is the home to upper class single students, graduate students and family residents. Residents are assigned to two-bedroom and three-bedroom apartments. The apartments are just a short walk or shuttle ride north of the classroom buildings.

Dunham Hall (DH)
Named after the famed dance pioneer Katherine Dunham of East St. Louis, this building houses the Mass Communications, Music, and Theater and Dance Departments and the broadcasting studios of WSIE-FM. Classes, plays, musicals, recitals and concerts are held in the 396-seat theater. Scenery and costume shops, dance studios, dressing rooms, a state-of-the-art music recording studio, and a television studio complete with production and postproduction editing facilities are housed here.

Early Childhood Center (ECC)
The Early Childhood Center is on the northwestern edge of the central academic core of campus. A State-of-Illinois-licensed child care center for children age two to six years, the center provides early childhood education to members of the SIUE community and also serves as a learning environment for SIUE education students.

Engineering Building (EB)
The Engineering Building includes classrooms, labs, and offices for Civil, Computer Science, Construction, Electrical, and Mechanical and Industrial disciplines. A new addition to the existing building was recently completed to expand the facilities to accommodate the growth in Engineering and another addition in progress will add shops for the engineering students to work on the Solar Car, Baja Car, Formula Car, Concrete Canoe, and Steel Bridge.

Evergreen Hall (ER)
Located at the corner of Circle Drive and Whiteside Road, Evergreen Hall combines the independence of apartment-style living with the amenities of a residence hall. Spaces are available in four floor plans: studio apartment, 4-person suite, 4-person apartment, and 6-person apartment.

Founders Hall (FH), Alumni Hall (AH)
Bordered by a pond to the east, Peck Hall to the south, parking to the west, and Circle Drive to the north, these two academic buildings form a single complex connected by tunnel and skywalk. Faculty for the Schools of Business, Education, and Nursing and the College of Arts and Sciences share the buildings, which houses lecture halls, instructional laboratories, and conference rooms.

Lovejoy Library (LB)
Named for martyred abolitionist newspaper publisher Elijah P. Lovejoy, the library houses a
self-instruction lab, computer labs, an extensive audiovisual reference collection, an Illinois and U.S. Government Documents Depository, a rare books collection, an international library network, and thousands of electronic journals and books. A 100-seat auditorium on the lower level is used for musical performances, movies and lectures.

**Metcalf Student Experimental Theater (ST)**
This facility, named for SIUE former budget director James F. Metcalf, is just northwest of the main core. It includes dressing rooms, storage, and a main stage area with a seating capacity of 200.

**Morris University Center (MUC)**
Morris University Center, named after Delyte W. Morris, President of Southern Illinois University from 1948-1970, is home to many activities and services. The building’s Information Center assists persons who have questions about the university. The center provides dining facilities, including a Starbucks and a Kaldi’s with open access computers and laptop hook-ups for students, faculty, and staff. It also offers recreational facilities, including a 16-lane bowling alley, table tennis, and pool tables. Other amenities include the University Bookstore, a convenience store, barber and beauty shop, ATM and conference rooms. Dances, movies, various entertainment programs, and other functions are held in Meridian Ballroom.

**Student Success Center (SSC)**
The SIUE Student Success Center consolidates student services and resources to help improve recruitment, retention and graduation rates. The new addition houses, among others, Academic Advising, Career Development Center, Counseling Services, Disability Support Services, Center for International Programs, and Health Service.

**Peck Hall (PH)**
The first building opened on campus is named for John Mason Peck, an early pioneer and educator in this region. In 1827, Peck founded Shurtleff College in Alton, Illinois — the first college in Illinois and now the site of the SIU School of Dental Medicine. Peck Hall is home to the College of Arts and Sciences, the Anthropology Teaching Museum, the Communication Laboratory, a computer laboratory, and laboratories for foreign language instruction. Two wings, opening from a center court, are used for classrooms; a third wing houses faculty offices.

**Pharmacy Buildings (PL)**
The School of Pharmacy, located in three buildings of SIUE’s University Park, incorporates technologically advanced classrooms, a Drug Information and Wellness Center, and pharmacy teaching and research laboratories in its innovative and contemporary curriculum.

**Rendleman Hall (RH)**
The administration building, named for the university’s first President, John S. Rendleman, houses offices of the Chancellor, Provost and Vice Chancellor for Academic Affairs, Vice Chancellor for Administration, Vice Chancellor for Student Affairs, Admissions, Service Center, Registrar, Bursar, Student Financial Aid, Educational Outreach, University Housing Contract Office and Parking Services.

**Science Building (SW and SE)**
The Science Building complex includes the Science West (SW) Building, a new teaching and research laboratory building for biology, chemistry, and environmental sciences, and the renovated Science East (SE) Building for Physics, Mathematics, and the Science Technology Engineering and Math (STEM) program.

**Student Fitness Center (SC)**
The Student Fitness Center opened for use in the spring of 1993, expanded in 1999, and expanded again in 2009. The facility, dedicated to student recreational use, includes six multipurpose courts, an elevated jogging track, weight training facilities, fitness and cardio facilities, exercise studios, an aerobics training room, and a wellness center designed to provide health and fitness assessment and programming.

**Vadalabene Center (VC) and Lukas Annex**
The Sam M. Vadalabene Center for Health, Recreation, and Physical Education is named after former Illinois Senator Sam Vadalabene of Edwardsville. This multipurpose building, used for campus-wide recreation and intramural and intercollegiate sports, is located on the north edge of the central academic core. It houses a swimming pool; racquetball courts; a rock-climbing gym; a 33,000-square foot multipurpose room; lockers/ showers; rooms for dance, combat, and weightlifting sports;
laboratories; classrooms; and offices for
the athletics staff and the Department of
Kinesiology and Health Education.

**Other Facilities**

Stadium drive is home to SIUE athletics’ Ralph
Korte Stadium, including Bob Guelker Field
(soccer); the Simmons Law Firm Baseball
Complex, including Roy Lee Field (baseball);
and Cougar Stadium and Fulginiti Indoor
practice facility (softball). The SIUE Tennis
Courts are on

Cougar Drive, adjacent to the Vadalabene
Center. Other facilities such as the Supporting
Services Building, the Clifford H. Fore
Environmental Resources Training Center, the
School of Dental Medicine at Alton and the East
St. Louis Higher Education Campus, are remote
from the campus core.
Faculty Emeriti

**Ahlbrand, William P.**, Professor of Education Leadership, PhD, 1968, Washington University

**Anderson, Daniel J.**, Professor of Art and Design, MFA, 1970, Cranbrook Academy of Art

**Andris, James F.**, Professor of Education Leadership, PhD, 1974, Indiana University

**Archangel, Rosemarie**, Professor of Kinesiology and Health Education, PhD, 1968, University of Iowa

**Ardis, Colby V.**, Professor of Civil Engineering, PhD, 1972, University of Wisconsin

**Aucamp, Donald**, Professor of Production and Operations Management (Management), PhD, 1971, Washington University Ault

**Ault, David E.**, Professor of Economics, PhD, 1969, University of Illinois

**Axtell, Ralph W.**, Professor of Biological Sciences, PhD, 1958, University of Texas at Austin

**Baden, Don**, Associate Professor of Curriculum and Instruction, EdD, 1973, University of Houston

**Bagchi, Deipica**, Professor of Geography, PhD, 1977, Oregon State University

**Baier, Marjorie A.**, Associate Professor of Nursing, PhD, 1995, Saint Louis University

**Baker, John A.W.**, Professor of Health, Kinesiology and Health Education, PhD, 1979, University of Iowa

**Barker, John A.**, Professor of Philosophy, PhD, 1967, Tulane University

**Barlow, Hugh D.**, Professor of Sociology and Criminal Justice Studies, PhD, 1973, University of Texas at Austin

**Beals, Paula L.**, Instructor of Theater and Dance, MA, 1970, Columbia Teacher’s College

**Beaman, Margaret**, Professor of Nursing, PhD, 1987, University of Illinois Chicago

**Bell, Doris E.**, Professor of Nursing, PhD, 1979, Saint Louis University
Bender, Lewis G., Professor of Public Administration and Policy Analysis, PhD, 1977, University of Georgia

Bengtson, Harlan H., Professor of Civil Engineering, PhD, 1971, University of Colorado

Blain, Robert R., Professor of Sociology and Criminal Justice Studies, PhD, 1967, University of Massachusetts

Bock, Douglas, Professor, Computer Management and Information Systems, PhD, 1987, Indiana University

Bodapati, Surya N., Professor of Construction, PhD, 1969, University of Manchester, United Kingdom

Boedeker, Richard R., Professor of Physics, PhD, 1959, St. Louis University

Bollini, Raghupathy, Professor of Electrical and Computer Engineering, PhD, 1971, Purdue University

Bosse, Daniel, Professor of Marketing, PhD, 1971, Saint Louis University

Bosse, Roberta B., Professor of English Language and Literature, PhD, 1971, Saint Louis University

Boyd, Mary A., Professor of Nursing, PhD, 1977, St. Louis University

Boyd, Rita E., Associate Professor of Nursing, PhD, 2002, Southern Illinois University Carbondale

Braundmeier, A. J., Professor of Physics, PhD, 1970, University of Tennessee, Knoxville

Brimer, Richard W., Associate Professor of Special Education and Communications Disorders, PhD, 1978, University of Missouri

Brown, Stephen M., Professor of Music, MMus, 1970, Southern Illinois University Edwardsville

Brugam, Richard B., Distinguished Research Professor of Biological Sciences, PhD, 1975, Yale University

Bryan, Virginia R., Professor of Chemistry, PhD, 1968, University of Minnesota

Bukalski, Peter J., Professor of Theater and Dance, PhD, 1975, Ohio State University

Burcky, William D., Professor of Educational Leadership, PhD, 1971, Saint Louis University

Bush, Richard D., Professor of Public Administration and Policy Analysis, PhD, 1983, University of Illinois

Butler, David L., Associate Professor of English Language and Literature, PhD, 1972, Saint Louis University

Cady, Lois M., Assistant Professor of Nursing, MS, 1962, University of Colorado

Carey, Ann Lee, Professor of Special Education and Communication Disorders, PhD, 1969, Southern Illinois University Carbondale

Carpenter, Sara, Lecturer of Kinesiology and Health Education, BA, 1950, Texas A&I

Carver, M. Robert Jr., Professor of Accounting, PhD, 1980, University of Missouri – Columbia

Chen, Ching-Chih, Professor of Historical Studies, PhD, 1973, Harvard University

Clement, Jacquelyn, Professor of Nursing, PhD, 1984, University of Texas – Austin

Clements, Donald W., Associate Professor of Geography, 1975, Southern Illinois University Carbondale

Collins, Janet D., Associate Professor of English Language and Literature, PhD, 1972, Saint Louis University

Cooper, Mary A, Professor of Mathematics and Statistics, DSc, 1970, Washington University

Corr, Charles Anthony, Professor of Philosophy, PhD, 1966, Saint Louis University

Cote, Daniel N., Professor of Construction, MS, 1958, North Carolina State University

Covington, Nelda K., Associate Professor of Kinesiology and Health Education, PhD, 1986, Texas Woman’s University

Creason, Nancy, Professor of Nursing, PhD, 1977, University of Michigan

Danley, John R., Professor of Philosophy, PhD, 1977, University of Rochester

Darnell, Donald, Associate Professor of Curriculum and Instruction, EdD, 1962, George Peabody Teachers College

Davis, Don F., Professor of Art and Design, MA, 1955, Ohio University

deMeneses, Mary R., Professor of Nursing, EdD, 1982, Northern Illinois University

De Toye, Lela, Professor of Curriculum and Instruction, EdD, 1989, Southern Illinois University Edwardsville

Decoteau, Pamela H., Professor of Art and Design, PhD, 1975, University of Wisconsin

Denby, Robert V., Assistant Professor of English Language and Literature, PhD, 1974, University of Illinois
Denny, Sidney G., Professor of Anthropology, PhD, 1972, Southern Illinois University Carbondale

Dewese, David, Associate Professor of Curriculum and Instruction, EdD, 1994, East Tennessee State University

Donald, Ralph R., Professor of Mass Communications, PhD, 1987, University of Massachusetts - Amherst

Donnelly, Brian, Associate Professor of Public Administration and Policy Analysis, PhD, 1978, University of Georgia

Duffey, Harry, Professor of Civil Engineering, ScD, 1965, Washington University

Eder, Douglas J., Associate Professor of Biological Sciences, PhD, 1973, Florida State University

Edmonds, Radcliffe, Associate Professor of Economics and Finance, PhD, 1979, University of Michigan

Eilers, James E., Professor of Chemistry, PhD, 1971, Case Western Reserve University

Elliott, Donald S. Jr., Professor of Economics and Finance, PhD, 1976, University of Minnesota

Engbretson, Robert O., Professor of Psychology, PhD, 1964, Michigan State University

Engelman, Dixie A., Dean/Associate Professor of College of Arts and Sciences Speech Pathology, MS, 1973, Southern Illinois University Edwardsville

Farley, Alice H., Professor of English Language and Literature, PhD, 1979, Brown University

Farley, John E., Professor of Sociology, PhD, 1977, University of Michigan

Farrell, John V., Associate Professor of Political Science, PhD, 1975, University of Iowa

Fearing, Arleen D., Associate Professor of Nursing, MSN, 1977, Northern Illinois University

Feeney, William R., Professor of Political Science, PhD, 1970, Johns Hopkins University

Fernando, Rex, Associate Professor, PhD, 1976, St. Louis University

Firsching, Henry F., Professor of Chemistry, PhD, 1955, Syracuse University

Fonseca, Elizabeth A., Associate Professor of Foreign Languages and Literature, PhD, 1982, University of Iowa

Forni, Patricia R., Professor of Nursing

Franke, Arnold, Associate Professor of Management, MS, 1960, Purdue University

Freund, William F., Professor of Art and Design, MS, 1950, University of Wisconsin

Frisbie, Charlotte J., Professor of Anthropology, PhD, 1970, University of New Mexico

Frisbie, Theodore R., Professor of Anthropology, PhD, 1971, Southern Illinois University Carbondale

Funkhouser, Linda, Associate Professor of English Language and Literature, PhD, 1978, Saint Louis University

Gallaher, John G., Professor of Historical Studies, PhD, 1960, Saint Louis University

Gipe, Thomas D., Professor of Art and Design, MFA, 1972, University of Arkansas

Glossop, Ronald J., Professor of Philosophy, PhD, 1960, Washington University

Godhwani, Arjun, Professor of Electrical and Computer Engineering, PhD, 1972, University of Arkansas

Goehe, Patricia A., Associate Professor of Speech Communication, MS, 1958, Southern Illinois University Carbondale

Gore, S. Joseph, Professor of Curriculum and Instruction, PhD, 1962, Washington University

Graebe, Annette M., Associate Professor of Speech Communication, MA, 1964, Southern Illinois University Carbondale

Grant, Samuel B. Jr., Associate Professor of Historical Studies, PhD, 1968, University of Michigan

Griffen, Toby D., Professor of Foreign Language and Literature, PhD, 1975, University of Florida

Grist, Arthur Leonard, Associate Professor of Curriculum and Instruction, MPH, 1960, University of Michigan

Grivna, William J., Professor of Theater and Dance, MFA, 1978, University of Minnesota

Haas, James, Professor of Historical Studies, PhD, 1960, University of Illinois

Haley, Johnetta, Professor of Music, MMus, 1972, Southern Illinois University Edwardsville
Hampton, Phillip J., Professor of Art and Design, MFA, 1952, Kansas City Art Institute
Hamrick, William S., Professor of Philosophy, PhD, 1971, Vanderbilt University
Hanna, Steven J., Professor of Civil Engineering, PhD, 1968, Purdue University
Hansel, Walter Max, Associate Professor of Business Education, PhD, 1983, Southern Illinois University Carbondale
Hansen, Stephen L., Professor of Historical Studies, PhD, 2000, University of Illinois Chicago
Harrick, Edward J., Professor of Management, PhD, 1974, Saint Louis University
Harrison, Jean M., Associate Professor of Special Education and Communication Disorders, EdD, 1996, Southern Illinois University Edwardsville
Hasty, Marilyn L., Associate Professor of Mathematics and Statistics, PhD, 1986, Southern Illinois University Carbondale
Hattemer, Jimmie, Professor of Computer Science, PhD, 1964, Washington University
Havens, Daniel F., Professor of English Language and Literature, PhD, 1965, University of Michigan
Havis, Barbara J., Assistant Professor, MEd, 1966, University of Missouri
Henderson, George A., Professor of Physics, PhD, 1970, Georgetown University
Henslin, James M., Professor of Sociology and Criminal Justice Studies, PhD, 1967, Washington University
Hess, Charles F., Professor of Geography, PhD, 1964, Michigan State University
Hill, Roger C., Professor of Physics, PhD, 1969, California Institute of Technology
Hirsch, Maurice L. Jr., Professor of Accounting, PhD, 1977, Washington University
Ho, Allan B., Professor of Music, PhD, 1984, University of Kentucky
Ho, Chung Wu, Professor of Mathematics and statistics, PhD, 1970, Massachusetts Institute of Technology
Hofmann, David Carl, Associate Professor of Educational Leadership, EdD, 1969, University of Toledo
Hull, Gary L., Professor of Educational Leadership, PhD, 1972, Michigan State University
Hunsley, James, Assistant Professor of Chemistry, PhD, 1970, Michigan State University
Hunt, John W., Associate Professor of Educational Leadership, PhD, 1977, Southern Illinois University Carbondale
Isaacson, Joel D., Professor of Computer Science, PhD, 1963, Michigan State University
Jacobitti, Edmund E., Professor of Historical Studies, PhD, 1970, University of Wisconsin
Jarrell, James C., Professor of Theater and Dance, MFA, 1980, University of Oklahoma
Jewett, Thomas O., Associate Professor of Curriculum and Instruction, PhD, 1985, Saint Louis University
Kaikati, Jack G., Professor of Management and Marketing, PhD, 1976, Florida State University
Karimpour, Rahim G., Professor of Mathematics and Statistics, PhD, 1977, University of Oregon
Keating, Richard C., Professor of Biological Sciences, PhD, 1965, University of Cincinnati
Keefe, Donald, Professor of Curriculum and Instruction, PhD, 1975, University of Illinois
Keene, Carol A., Professor of Philosophy, PhD, 1969, Saint Louis University
Kerr, Ruth Slenczynska, Professor of Music, DFA (Honorary), 2000, Southern Illinois University Edwardsville
Kim, Sang-Ki, Professor of Philosophy, PhD, 1973, State University of New York
King, Thomas E., Professor of Accounting, PhD, 1973, University of California at Los Angeles
Kittrell, Ethel Jean, Associate Professor of English Language and Literature, PhD, 1973, Southern Illinois University Carbondale
Kleinman, Kenneth M., Professor of Psychology, PhD, 1967, Washington University
Klepper, Robert, Professor of Computer Management and Information Systems, PhD, 1973, University of Chicago
Korn, Alfred, Professor of Civil Engineering, ScD, 1967, Washington University
Krchniak, Stefan P., Professor of Education Leadership, PhD, 1968, New York University
Krishnan, Kuppanna, Associate Professor of University Services to East St. Louis, PhD, 1978, Saint Louis University

Kropp, Lloyd E., Professor of English Language and Literature, MA, 1961, University of Pittsburgh

Lamp, Robert E., Professor of Psychology, PhD, 1966, Washington University

Lampe, Marion, Professor of Music, DMA, 1968, University of Michigan

Lashley, Felissa L., Dean of Nursing, School of, PhD, 1973, Illinois State University

Lawrence, Barbara J., Professor of English Language and Literature, PhD, 1973, Saint Louis University

Lazerson, Earl E., President and Distinguished Service Professor of Mathematics and Statistics, PhD, 1982, University of Michigan

Lessen, Elliott, Professor of Special Education and Communication Disorders, PhD, 1977, University of Florida

Levin, Stanford L., Professor of Economics and Finance, PhD, 1974, University of Michigan

Lieblich, Malcolm, Professor of Special Education and Communication Disorders, PhD, 1963, New York University

Lin, An-Yhi, Professor of Economics and Finance, PhD, 1967, Iowa State University

Lin, Chiang, Professor of Civil Engineering, PhD, 1984, University of Kentucky

Linden, George W., Professor of Philosophy, PhD, 1956, University of Illinois

Lindsay-Skinner, Vaughnie, Professor of Business Education, EdD, 1966, Indiana University

Livingston, Marilynn, Professor of Computer Science, PhD, 1966, University of Alberta

Long, Ruby D., Professor of Special Education and Communication Disorders, EdD, 1967, University of Missouri

Loucks, Donald G., Professor of Music, PhD, 1974, Ohio State University

Luan, David, Professor of Economics, PhD, 1959, University of Texas

Luedke, George C., Associate Professor of Kinesiology and Health Education, DPEd, 1982, Indiana University

Lynch, James M., Associate Professor of Marketing, PhD, 1984, University of Texas – Austin

Mackie, Wade C., Associate Professor of Theater and Dance, PhD, 1972, Indiana University

Malone, Robert R., Professor of Art and Design, MFA, 1958, University of Chicago

Maurer, Marcia C., Professor of Nursing, PhD, 1994, Loyola University of Chicago

Maynard, Riley, Professor of Mass Communications, PhD, 1995, Saint Louis University

McCabe, Don F., Associate Professor of Political Science, PhD, 1972, University of Idaho

McCall, John N., Professor of Psychology, PhD, 1959, University of Minnesota

McCleary, Kevin E., Professor of Speech Communication, PhD, 1979, University of Kansas

McClure, James R., Associate Professor of Chemistry, PhD, 1978, University of Missouri – Columbia

McCommas, Steven A., Professor of Biological Sciences, PhD, 1982, University of Houston

McKinney, Richard N., Professor of Management, PhD, 1969, Saint Louis University

Mellott, George K., Professor of Music, PhD, 1964, University of Iowa

Mendelson, Robert E., Professor of Geography, MUP, 1966, University of Illinois

Meyering, Sheryl L., Professor of English Language and Literature, PhD, 1986, Michigan State University

Michlitsch, Joseph F., Associate Professor of Management, PhD, 1980, University of Minnesota.

Millett, Richard L., Professor of Historical Studies, PhD, 1966, University of New Mexico

Mitchell, Sylvia L., Assistant Professor of Nursing, School of, MSN, 1972, Saint Louis University

Moehn, Larry Niel, Assistant Professor of Kinesiology and Health Education, MS, 1962, Indiana University

Mundt, Frederick J.C., Professor of Education Leadership, PhD, 1961, University of Wisconsin

Munshaw, Joe A., Professor of Speech Communication, PhD, 1972, University of Missouri
Nabe, Clyde M., Professor of Philosophy, PhD, 1975, Purdue University

Nall, Susan M.W., Professor of Curriculum and Instruction, PhD, 1975, Saint Louis University

Nelson, Charles E., Professor of Educational Leadership, PhD, 1970, Southern Illinois University Carbondale

Nordhauser, Norman E., Professor of Historical Studies, PhD, 1970, Stanford University

Nore, Ellen, Associate Professor of Historical Studies, PhD, 1980, Stanford University

O’Gorman, Gerald, Associate Professor of English Language and Literature, PhD, 1973, St. Louis University

Ortegren, Alan K., Professor of Accounting, PhD, 1982, University of Arkansas

Osiek, Betty T., Professor of English Language and Literature, PhD, 1966, Washington University

Parker, Nancy R., Associate Professor of Biological Sciences, PhD, 1965, University of Texas

Patsloff, Patricia K., Professor of Business Education, EdD, 1967, University of Michigan

Paxson, Thomas D. Jr., Professor of Philosophy, PhD, 1970, University of Rochester

Pearson, Samuel C., Dean of Historical Studies, PhD, 1964, University of Chicago

Perkins, Laura L., Professor of Speech Communication, PhD, 1989, University of Missouri – Kansas City

Perry, Gloria, Professor of Nursing, School of, PhD, 1974, Saint Louis University

Perry, Linda W., Professor of Music, PhD, 1994, University of Illinois at Urbana Champaign

Perry, Richard Kent, Professor of Music, DMA, 1970, University of Illinois

Perry, Sally A., Professor of Nursing, EdD, 1991, Southern Illinois University Edwardsville

Phillips, Paul H., Professor of Mathematics and Statistics, PhD, 1968, Ohio State University

Pierce, Rex G., Instructor of Civil Engineering, MBA, 1987, Southern Illinois University Edwardsville

Pocreva, Robert S., Associate Professor of Construction, MS, 1966, Auburn University

Popp, Jerome A., Professor of Education Leadership, PhD, 1966, St. Louis University

Portwood, Shirley J., Professor of Historical Studies, PhD, 1982, Washington University

Prince, Alice R., Associate Professor of Health, Recreation and Physical Education, PhD, 1984, Southern Illinois University Carbondale

Ragen, Brian A., Professor of English Language and Literature, PhD, 1987, Princeton University

Ratzlaff, Kermit O., Professor of Biological Sciences, PhD, 1962, University of California

Reading, Gloria D., Associate Professor of Curriculum and Instruction, EdD, 1999, Southern Illinois University Edwardsville

Redmond, Eugene B., Professor of English Language and Literature, MA, 1966, Washington University

Regnell, Barbara C., Professor of Business Communications, MA, 1966, Syracuse University

Reuterman, Nicholas, Professor of Psychology, PhD, 1968, University of Colorado

Revard, Stella Purce, Professor of English Language and Literature, PhD, 1961, Yale University

Richards-Ellsworth, Rosanda, Associate Professor of Education Leadership, PhD, 1970, University of Wisconsin

Richardson, Betty H., Professor of English Language and Literature, PhD, 1968, University of Nebraska

Rider, John R., Professor of Mass Communications, PhD, 1963, Michigan State University

Rigdon, Steven E., Distinguished Research Professor of Mathematics and Statistics, PhD, 1985, University of Missouri Columbia

Riley, Lawrence E., Associate Professor of Sociology and Criminal Justice Studies, PhD, 1971, Ohio State University

Ringerling, Dennis L., Professor of Art and Design, MFA, 1970, University of Colorado

Rockwell, Robert E., Professor of Curriculum and Instruction, PhD, 1972, Saint Louis University

Rogers, Karen, Professor of Music, MFA, 1974, University of Iowa

Rossip, Mark P., Professor Civil Engineering, PhD, 1973, University of Michigan – Ann Arbor

Rumfle, Janice J., Assistant Professor of Nursing, EdD, 1991, Southern Illinois University Edwardsville
Runkle, Gerald J.T., Professor of Philosophy, PhD, 1951, Yale University

Russo, Joseph R., Professor of Psychology, EdD, 1963, Pennsylvania State University

Ruth, Sheila, Professor of Philosophy, PhD, 1969, State University of New York

Santoni, Wayne D., Associate Professor of Historical Studies, PhD, 1968, University of Kansas

Sappington, V. Ellen, Associate Professor of Kinesiology and Health Education, PhD, 1976, University of Iowa

Schieber, Robert W., Professor of Music, MEd, 1956, Indiana University

Schmidt, Cynthia A., Professor of Nursing, PhD, 1997, Saint Louis University

Schrage, John F., Professor of Computer Management and Information Systems, PhD, 1978, Michigan State University

Schultheis, Robert A., Professor of Computer Management and Information Systems, PhD, 1966, Indiana University

Schusky, Ernest L., Professor of Anthropology, PhD, 1960, University of Chicago

Schusky, Mary Sue, Assistant Professor of Educational Leadership, PhD, 1960, University of Chicago

Schwartz, David F., Associate Professor of Political Science, PhD, 1975, Pennsylvania State University

Schwer, Ann S., Professor of Economics, PhD, 1952, Saint Louis University

Scott, Janet, Professor of Music, MM, 1976, Washington University

Shaheen, Jack G. Jr., Professor of Mass Communications, PhD, 1969, University of Missouri

Shaul, Kerry J., Associate Professor of Theater and Dance, MFA, 1973, Southern Methodist University

Shea, Thomas M., Professor of Special Education and Communication Disorders, EdD, 1967, Boston University

Showers, Norman E., Professor of Kinesiology and Health Education, EdD, 1966, University of Southern California

Sill, David J., Professor of Theater and Dance, MFA, 1979, Michigan State University

Simons, Margaret A., Distinguished Research Professor of Philosophy, PhD, 1977, Purdue University

Smith, Frances M., Distinguished Research Professor of Biological Sciences, PhD, 1986, University of Kansas

Smithson, Isaiah, Professor of English Language and Literature, PhD, 1977, University of California Davis

Snell, Luke M., Professor of Construction, MS, 1970, University of Oklahoma

Spurgeon, Dickie A., Professor of English Language and Literature, PhD, 1967, University of Illinois

Stahnke, Arthur, Professor of Political Science, PhD, 1966, University of Iowa

Stamps, David B., Professor of Music, MM, 1975, University of Miami

Statler, Luther D., Assistant Professor of Management, PhD, 1977, Saint Louis University

Steckling, Ronald, Associate Professor of Historical Studies, PhD, 1964, University of Wisconsin

Stein, James R., Associate Professor of Special Education and Communication Disorders, PhD, 1973, Saint Louis University

Steinberg, David, Dean/Professor of Mathematics and Statistics, ScD, 1968, Washington University

Stephen, G. Gregory, Professor of Computer Science, PhD, 1969, University of New Mexico

Sullivan, George M., Professor of Management and Marketing, LLM, 1982, New York University

Sultan, Paul E., Professor of Economics, PhD, 1950, Cornell University

Sumner, Mary R., Professor of Computer Management and Information Systems, EdD, 1977, Rutgers State University of New Jersey - New Brunswick

Swaine, Richard L., Professor of Sociology and Criminal Justice Studies, PhD, 1971, Washington University

Swamy, Padmanabha N., Professor of Physics, Ph.D., 1963, Delhi University

Sweezev, Charles O., Professor of Theater and Dance, 1974, Brandeis University

Sykes, Roslyn Kelley, Professor of Nursing, PhD, 1984, Saint Louis University

Tallant, Audrey M., Professor of Music, MFA, 1977, California Institute of The Arts
Taylor, John A., Professor of Historical Studies, PhD, 1972, University of Chicago
Taylor, Joyce S., Professor of Special Education and Communication Disorders, PhD, 1969, University of Missouri
Theodore, Peter A., Associate Professor of Educational Leadership, PhD, 2001, Saint Louis University
Thornton, Charles A., Professor of Geography, PhD, 1970, University of Tennessee
Traxler, Anthony J., Professor of Psychology, PhD, 1969, Pennsylvania State University
Turner, Sarah T., Professor of Music, MA, 1958, Columbia University
Vailati, Ezio, Professor of Philosophy, PhD, 1985, University of California - San Diego
Valley, David B., Professor of Speech Communication, PhD, 1972, University of Illinois
Van Roekel, Jacob, Professor of Industrial and Mechanical Engineering, MSIE, 1968, Purdue University
Van Syoc, W. Bryce, Professor of English, PhD, 1959, University of Michigan
Vandegrift, Vaughn, Emeritus Chancellor and Professor of Chemistry, PhD, 1974, Ohio University
Verderber, Nadine L., Professor of Mathematics and Statistics, PhD, 1974, Ohio State University
Vilhauer, William W., Professor of Theater and Dance, PhD, 1965, University of Iowa
Voller, John G., Professor of English Language and Literature, PhD, 1987, University of California - San Diego
Wagner, Robert M., Professor of Special Education and Communication Disorders, PhD, 1971, Saint Louis University
Wallace, Mona Ruddy, Associate Professor of Nursing, EdD, 1983, University of Missouri – St. Louis
Wanda, Paul E., Professor of Biological Sciences, PhD, 1978, Pennsylvania State University
Waxman, Bernard M., Professor of Computer Science, Emeritus Professor, SCD, 1989, Washington University
Weber, Joseph A., Professor of Curriculum and Instruction, PhD, 1983, Saint Louis University
Weingartner, James J., Professor of Historical Studies, PhD, 1967, University of Wisconsin
Weiss, Stuart L., Professor of Historical Studies, PhD, 1961, University of Chicago
Werner, David J., Professor of Computer Management and Information Systems, PhD, 1969, Northwestern University
White, J. Edmund, Professor of Chemistry, PhD, 1958, Indiana University
Whiteside, William, Professor of Special Education and Communication Disorders, PhD, 1969, Southern Illinois University Carbondale
Wilbraham, Antony C., Professor of Chemistry, PhD, 1965, Royal Institute of Chemistry
Wiley, W. Deane, Professor of Education Leadership, PhD, 1966, Claremont Graduate School
Williams, Robert A., Professor of Curriculum and Instruction, PhD, 1975, Georgia State University
Wilson, Howell K., Professor of Mathematics and Statistics, PhD, 1964, University of Minnesota
Wilson, Rudolph G., Associate Professor of Curriculum and Instruction, BA, 1964, California State University, Los Angeles
Winnett, David A., Professor of Curriculum and Instruction, EdD, 1988, Southern Illinois University Edwardsville
Wolf, Robert G., Professor of Philosophy, PhD, 1970, Saint Louis University
Woods, William I., Professor of Geography, PhD, 1986, University of Wisconsin – Milwaukee
Yarbrough, Ronald E., Professor of Geography PhD, 1972, University of Tennessee
Youn, Luis T., Professor of Electrical and Computer Engineering, PhD, 1985, University of Houston- Downtown College
Ziegler, Robert J., Associate Professor of English Language and Literature, PhD, 1972, University of Rochester
Course Descriptions

The information published in the Course Descriptions section of this catalog is correct at the time of printing. Addition and removal of courses from the course inventory as well as changes to course descriptions and prerequisites occur over time. The current inventory of course offerings (including course prerequisites) for each term is located in the Course Catalog section of CougarNet. Students are encouraged to review course prerequisites and descriptions prior to registration each semester.

Frequency of Course Offerings

The following characters are noted in the course description to indicate the terms in which the class is typically offered. When the notation is not present, this may indicate that the course is offered infrequently or not offered in regular term intervals. For example, it may be offered one year in the summer and another in the fall or not offered annually. These notations may be used for planning, but should not be relied upon for a guarantee of availability. Students should consult CougarNet each term to explore the courses available for the term.

F     Fall
aF    Alternating Fall
S     Spring
aS    Alternating Spring
M     Summer
aM    Alternating Summer

Designations Used in Course Descriptions

Some courses listed in this section of the catalog will fulfill general education requirements. The following abbreviations, when listed with the course description, indicate how the course may be used to meet general education requirements. These specific components of the Lincoln Program are:

Foundations: All students are required to take five (5) Foundations courses which develop competencies in written and oral communication, logic, and quantitative literacy that form the bases of information literacy and scientific literacy.

[FQR] Foundations/Quantitative Reasoning
[FRA] Foundations/Reasoning and Argumentation
[FSPC] Foundations/Oral Communication

[FW1] Foundations/Written Expression 101
[FW2] Foundations/Written Expression 102

Breadth Areas: All students are required to take six (6) Breadth courses (one from each of the following areas) which provide the opportunity to explore the breadth of human knowledge by introducing students to the principles, substance, and methodology of disciplines beyond their major. These courses are distributed across six Breadth Areas: Fine and Performing Arts, Humanities, Information and Communication in Society, Life Sciences, Physical Sciences, and Social Sciences.

[BFPA] Breadth Fine and Performing Arts
[BHUM] Breadth Humanities
[BICS] Breadth Information and Communication in Society
[BLS] Breadth Life Sciences
[BPS] Breadth Physical Sciences
[BSS] Breadth Social Sciences

Interdisciplinary Studies: All students are required to take one (1) Interdisciplinary Studies course to foster awareness of the interrelationships among branches of human knowledge.

[IS] Interdisciplinary Studies

Experiences:

New Freshman Seminar [FRSM]: All new freshmen are required to enroll in a New Freshman Seminar that introduces students to university learning, expectations, and procedures by exploring various topics of academic and civic interest with a faculty member.

Experience Health [EH]: All students are required to take a course or complete an approved project or activity that explores at least one component of health: physiological, psychological (including emotional and spiritual health aspects), or social.

Experience Laboratory [EL]: All students are required to take a laboratory course in order to develop scientific literacy that helps shape informed citizens.

Experience United States Cultures [EUSC]: All students are required to take a course or complete an approved project or activity that explores the diverse, pluralistic population
of the United States and the contributions these diverse groups have made to our shared culture.

**Experience Global Cultures [EGC]:** All students are required to take a course or complete an approved project or activity that explores one or more non-US cultures in order to gain an appreciation and understanding of human diversity in a dense, globally interconnected world.

**Other Designations Found in Course Descriptions Section include:**
- [DFAH] Distribution Fine Arts and Humanities
- [DNSM] Distribution Natural Sciences & Mathematics
- [DSS] Distribution Social Sciences
- [IAI] Illinois Articulation Initiative
- [IC] International Culture
- [IGR] Intergroup Cultural Relations
- [II] International Issues
- [IFAH] Introductory Fine Arts and Humanities
- [INSM] Introductory Natural Sciences and Mathematics
- [ISS] Introductory Social Sciences
- [SKCP] Skills Computer Concepts Course
- [SKFL] Skills Foreign Language Course
- [SKLG] Skills Logic Course
- [SKOC] Skills Oral Communication Course
- [SKST] Skills Statistics Course
- [SKW1] Skills Written Expression 101 Course
- [SKW2] Skills Written Expression 102 Course

For additional resources on general education requirements, please visit: [siue.edu/registrar/genedguides.shtml](http://siue.edu/registrar/genedguides.shtml).

**Academic Development (AD)**

Institutional credit is given for zero-level Academic Development courses (AD 070 — AD 095). Such credit may not be used for graduation, and letter grades are not calculated in the grade point average.

**070 - Beginning Algebra — 3**

This course will include the study of signed numbers, fractions, integer exponents, algebraic expressions, solving linear equations/inequalities, graphing, polynomial operations, factoring, rational expressions, systems of linear equations, and applications. Credit not counted for graduation. Letter grades not counted in grade point average. Four contact hours. Upon completion of course, a grade of C or higher indicates readiness for enrollment in Math 120E. Prerequisite: ALEKS PPL score of 0 or above.

**090 - Basic Writing I - 5**

Focuses on thinking skills and expression of ideas within organized and coherent paragraphs and short essays. Emphasis on sentence skills and standard academic English. Credit not counted for graduation. Letter grades not counted in grade point average. Four contact hours. Prerequisite: Course placement determined by SAT/ACT and placement tests or grade of C or better in AD 090 and consent of instructor. Exit Criteria to ENG 101: C or better in AD 092 and consent of instructor.

**092 - Basic Writing II — 3**

Focuses on writing multi-paragraph essays and development of analytical skills needed to address rhetorical topics. Credit not counted for graduation. Letter grades not counted in grade point average. Four contact hours. Prerequisite: college-level reading skills. Exit Criteria: 115, 116: C or better.

**115 - Study Skills – 2**

Improve study behaviors and attitudes through academic goal setting, study systems, note-taking techniques, test taking strategies, time management, classroom communication and problem solving. Two contact hours. Prerequisite: college-level reading skills.

**116 - Reading Speed and Efficiency - 2**

Improvement of reading rate and flexibility with emphasis on comprehension, vocabulary, and textbook reading strategies as related to reading efficiency and overall academic performance. Two contact hours. Prerequisite: college-level reading skills.

**117 - Career Planning and Development – 2**

Career decision-making process investigates self-awareness, career exploration, career information gathering, life styles and job search strategy including development of resumes, interviewing skills and networking techniques. Two contact hours.

**Accounting (ACCT)**

**200 - Fundamentals of Financial Accounting – 3**

Concepts of financial accounting and external reporting. Nature and measurement of assets, liabilities, equities, revenues, expenses. Emphasis on use and understanding of external financial statements. Prerequisites: ECON 112 or concurrent enrollment.

**210 - Managerial Accounting – 3**

Information accumulation, analysis, and use for managerial decisions. Cost-volume-profit relationships; short- and long-term decisions; standards and budgets; segment and managerial performance evaluation. Open only to non-accounting majors. Credit not acceptable for the Bachelor of Science in Accountancy. Prerequisites: 200 with a grade of C or better, MS 251 with a grade of C or better.

**301 - Intermediate Accounting Theory and Practice I – 3**

Financial accounting concepts and procedures; measurement and reporting methods with respect to assets, liabilities, owners equity, revenues and expenses; authoritative pronouncements. Prerequisite: 200 with grade of B or better, accounting, CMIS, economics or finance, business administration majors.

**302 - Intermediate Accounting Theory and Practice II – 3**

Continuation of 301. Selected complex accounting issues from a theoretical and practical viewpoint; pensions, leases, tax allocation, changing prices, other reporting and disclosure issues. Prerequisite: 301 with grade of C or better, accounting majors.
### Aerospace Studies (AS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301-302</td>
<td>Intermediate Accounting Theory and Practice III</td>
<td>3 FSM</td>
<td>Continuation of 302. Emphasis on conceptual understanding and on the ability to apply financial accounting concepts to practice. Topics include the statement of cash flows and accounting for leases, pensions, deferred taxes. Prerequisites: 302 and good standing in accountancy program, or consent of accountancy program director, accounting majors.</td>
</tr>
<tr>
<td>311</td>
<td>Managerial and Cost Accounting I</td>
<td>3 FS</td>
<td>Costs for financial accounting and managerial decision making in changing competitive, service, manufacturing environments; behavioral, quantitative, computer applications; extensive communication and analytical skills development. Prerequisites: 200 with grade of B or better, MS 251 with grade of C or better, accountancy, economics or finance, CMIS or business administration majors.</td>
</tr>
<tr>
<td>312</td>
<td>Managerial and Cost Accounting II</td>
<td>3 FS</td>
<td>Short- and long-term decision making and operational control in changing competitive, service, manufacturing environments; behavioral, quantitative, computer applications; continuation of communication and analytical skills development. Prerequisites: 311 with grade of C or better, accounting majors.</td>
</tr>
<tr>
<td>315</td>
<td>Accounting Systems</td>
<td>3 FS</td>
<td>Accounting systems, concepts, design, information needs and flows; special emphasis on internal control. Prerequisites: 200 with grade of B or better, accounting majors.</td>
</tr>
<tr>
<td>321</td>
<td>Introduction to Taxation</td>
<td>3 FS</td>
<td>Survey of federal tax laws applicable to individuals, corporations, estates, trusts. Prerequisites: 301 with grade of C or better, accounting majors.</td>
</tr>
<tr>
<td>340</td>
<td>Business Law for Accountants</td>
<td>3 FS</td>
<td>Accounting and auditing implications of legal issues. Includes securities laws and Uniform Commercial Code areas of sales; commercial paper; secured transactions; partnerships; corporations; agency; bankruptcy. Prerequisites: 200 with grade of B or better, accountancy, CMIS, economics or finance, business administration majors.</td>
</tr>
<tr>
<td>401</td>
<td>Advanced Financial Accounting</td>
<td>3 FSM</td>
<td>Accounting principles, procedures related to special entities, including governmental units, partnerships, and multi-corporate entities; foreign transactions; primary emphasis on business combinations and consolidated financial statements. Prerequisites: 302 and good standing in Accountancy program, or consent of instructor, accounting majors.</td>
</tr>
<tr>
<td>421</td>
<td>Advanced Taxation – Individual</td>
<td>3 FS</td>
<td>U.S. federal taxes for individuals. Includes compliance, tax research and tax planning strategies for individual taxpayers. Prerequisites: 321 with a C or better, accounting majors.</td>
</tr>
<tr>
<td>431</td>
<td>Principles of Auditing</td>
<td>3</td>
<td>Auditor’s decision process; understanding client’s business; development of working papers, audit tests, statistical sampling applications, EDP systems; preparation of audit report, current pronouncements. Prerequisites: 302, 315, good standing in accountancy program, or consent of accountancy program director, accounting majors.</td>
</tr>
<tr>
<td>490</td>
<td>Independent Study in Accounting</td>
<td>1 to 6</td>
<td>Topical areas in greater depth than regularly titled courses permit; individual or small group readings or research projects. May be repeated to a maximum of 6 hours provided no topic is repeated. Prerequisites: consent of instructor and department chair person, good standing in accountancy program, accounting majors.</td>
</tr>
</tbody>
</table>

### Anthropology (ANTH)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-202</td>
<td>Team and Leadership Fundamentals</td>
<td>2 each</td>
<td>Focuses on laying the foundation for teams and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.</td>
</tr>
<tr>
<td>301-302</td>
<td>Leading People and Effective Communication</td>
<td>3 each</td>
<td>This course teaches cadets advanced skills and knowledge in management and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.</td>
</tr>
<tr>
<td>401-402</td>
<td>National Security Affairs/Preparation for Active Duty</td>
<td>3 each</td>
<td>Gives college seniors the foundation to understand their role as military officers in American society. Note: Leadership Lab is mandatory for AFROTC cadets.</td>
</tr>
</tbody>
</table>

### Anthropology (ANTH)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>111a</td>
<td>Human Ancestry and Adaptations</td>
<td>3 FSM</td>
<td>An introduction to archaeology and biological anthropology. Examines the evolution and biological adaptations of the human species, and the development of culture through archaeological investigation. BLS, EGC, INSM [IAI No. S1 902]</td>
</tr>
<tr>
<td>111b</td>
<td>Human Culture and Communication</td>
<td>3 FSM</td>
<td>An introduction to cultural and linguistic anthropology. Examines diversity in lifeways of people around the world. Includes anthropological approaches to social groups, symbolic systems, globalization. BSS, EGC, EUSC, IC, ISS, IGR [IAI No. S1 901N]</td>
</tr>
<tr>
<td>170a</td>
<td>Introductory Topics in Biological Anthropology</td>
<td>3</td>
<td>Significant problems and issues in natural science applications of biological anthropology not treated in other courses, presented at an introductory level. Content varies. BLS, INSM, LS</td>
</tr>
<tr>
<td>170b</td>
<td>Introductory Topics in Anthropology</td>
<td>3</td>
<td>Significant problems and issues in social science applications of anthropology not treated in other courses, presented at an introductory level. Content varies. BSS, ISS</td>
</tr>
<tr>
<td>202</td>
<td>Anthropology Through Film and Fiction</td>
<td>3</td>
<td>Anthropological issues presented through analysis of feature films, fiction stories, and other resources. Topics include scientific method, human diversity, cultural relativism, human conflict and cooperation. BSS, DSS, EGC, EUSC, IGR</td>
</tr>
<tr>
<td>204</td>
<td>Anthropology of the Paranormal</td>
<td>3</td>
<td>Critical exploration of popular and anthropological perspectives on the paranormal including epistemology, death, the afterlife, ghosts, cryptids, outer space and aliens. BSS, DSS, EGC, IC</td>
</tr>
<tr>
<td>205</td>
<td>Introduction to Native American Studies</td>
<td>3 F</td>
<td>Provides a foundation for Native American Studies by exploring the complexity and diversity of the Native American experience through anthropological, political, historical, and literary perspectives. BSS, DSS, EUSC, IGR</td>
</tr>
<tr>
<td>270</td>
<td>Special Topics in Anthropology</td>
<td>3</td>
<td>Significant problems and issues not treated in on-campus courses. May be repeated to a maximum of 9 hours as long as no topic is repeated. BSS, DSS, EGC, IC</td>
</tr>
<tr>
<td>300</td>
<td>Ethnographic Method and Theory</td>
<td>3 F</td>
<td>Research design and field methods in cultural and linguistic anthropology with emphasis upon theory, ethics, and hands-on</td>
</tr>
</tbody>
</table>

**Course Descriptions**

**Anthropology (ANTH)**

**201-202 - Team and Leadership Fundamentals**

Focuses on laying the foundation for teams and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.

**Professional Officer Courses**

**301-302 - Leading People and Effective Communication**

This course teaches cadets advanced skills and knowledge in management and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.

**401-402 - National Security Affairs/Preparation for Active Duty**

Gives college seniors the foundation to understand their role as military officers in American society. Note: Leadership Lab is mandatory for AFROTC cadets.
application of fieldwork skills. Prerequisite: anthropology major, junior standing, 111b with C or better, concurrency allowed.

BSS, DSS, EUSC, IGR

301 - Anthropology in Practice – 3 F
Focus on applied anthropology career domains and positions, ethical issues in applied anthropology, and skill development in research design, data analysis, and professional interaction. Prerequisite: anthropology major, junior standing, 111b with C or better, concurrency allowed.

BSS, DSS, EUSC, IGR

303 - Language, Culture and Power - 3
Introduction to concepts and themes in linguistic anthropology including non-verbal communication and cognition, as well as power relations in multilingualism, gender, race, ethnicity, endangerment and revitalization.

BICS, DSS, EUSC, IGR

305 - Peoples and Cultures of Native North America - 3
Examines diversity in social, economic, political and religious aspects of the traditional cultures of selected Native American nations and societies.

BSS, DSS, EUSC, IGR

308 - Religion and Culture - 3
A survey of religious traditions around the world in their cultural contexts, emphasizing indigenous religions traditions.

BHUM, DFAH, EGC, IC

311 - Peoples and Cultures of the African Diaspora - 3
Anthropological perspectives on the culture and identities of people of African descent throughout the globe. Comparative approach and reviews the continuing transmission of culture.

BSS, DSS, EUSC, IGR

312 - Contemporary Native Americans - 3
History of unique position within North American society; contemporary issues in economics, politics, law, religion, social life and cultural heritage.

BSS, DSS, EUSC, IGR

325 - Archaeological Method and Theory - 3 S
Major historical developments in anthropological archaeology; methods and theoretical approaches to data analysis. Prerequisite: anthropology major, junior standing, ANTH 111a with a minimum grade of C.

BSS, DSS

332 - Origins of Old World Cities and States - 3
An overview of the rise of cities and states. Neolithic beginnings to developments in Mesopotamia, Egypt, Indus Valley, China, and Sub-Saharan Africa.

BSS,DSS, EGC, IC

333 - Origins of New World Cities and States - 3 S
Origins and development of New World cities and states emphasizing Olmec, Mayan, Teotihuacan, Toltec, Aztec, and Andean cultures. Spanish conquest of Aztecs and Incas.

BSS, DSS, EGC, I1

334 - Food and Cultural Change - 3
Overview of the origins of plant and animal domestication. Covers evidence for independent "invention" and subsequent spread of agriculture in Old World and New World.

BLS, DNSM, EGC, I1

335 - Historical Archaeology - 3
Current methods and theoretical approaches of historical archaeology. Archaeological case studies are used to illustrate the cultural development of historic period groups and communities.

BSS, DSS

336 - North American Prehistory - 3 aF
Survey of North American archaeology, beginning with the arrival of humans in the New World, and ending with the arrival of Europeans ca. 1500.

BSS, DSS, EGC, IC

340 - Environmental Anthropology - 3
Surveys the relationship between humans and their environments from an anthropological perspective, including changes through time and cross-cultural comparisons.

BSS, DSS, EGC, IC

350 - Applied Anthropology - 3
Current issues from anthropological perspective: ethnicity and religious divisions, world hunger, concepts of health and medicine, other uses of anthropology for practical problems.

BSS, DSS, EGC, I1

352 - Medical Anthropology - 3
Theories and applications of medical anthropology. Cross-cultural perspectives on health and medicine.

BSS, DSS, EGC, II, I1

359 - Anthropology and Human Rights - 3
A cross-cultural examination of issues in law, politics and human rights around the world.

BSS, DSS, EGC, I1

360a - Biological Anthropology Method and Theory - 3 S
Current methods and theories in biological anthropology. Includes evolutionary theory, nonhuman primates, human variation, genetics, and paleoanthropology. Must be taken concurrently with 360b. Prerequisite: anthropology major, junior standing, ANTH 111a with minimum grade of C.

BLS, DNSM

360b - Biological Anthropology Lab - 1 S
Laboratory course that must be taken concurrently with 360A. Covers human osteology and comparative nonhuman primate material. Prerequisite: ANTH 111a with minimum grade of C.

BLS, DNSM, EL

365 - Human Origins - 3
Advanced course on human evolution, focusing on fossil and archaeological evidence, and investigating the origins and development of modern human physical and cultural features. Prerequisite: ANTH 111a with a minimum grade of C.

BLS, DNSM, EL

366 - Human Variation - 3
Examines differences between biological and social perspectives on human variation. Includes ethics, methods, and theory regarding variation in human genetics, sex, intelligence, health, and behavior.

BLS, DNSM

367 - Primatology - 3
An overview of humans' closest relatives (prosimians, monkeys, apes). Includes primate anatomy, ecology, social behavior, cognition, and conservation.

BLS, DNSM, EL

369 - Introduction to Forensic Anthropology - 3 F
Introduction to human osteology and anthropological methods, and the relationship to forensics, includes techniques for reconstructing identity, trauma and disease, decomposition and taphonomy.

BLS, DNSM, EL

370 - Special Topics in Anthropology - 3
Significant problems and issues not treated in other countries. May be repeated to a maximum of 9 hours as long as no topic is repeated.

404 - Anthropology and the Arts – 3 aS
Analyzes global cultures' visual and material art forms in museum collections with focus on form, process, meaning, function and value. Prerequisite: junior standing or greater or consent of instructor.

BSS, DSS, EGC, IC
405 - Alternative Tourism – 3
Explores tourism practices, with an emphasis on alternative forms, such as adventure tourism, ecotourism, dark tourism, and 'staycations', with emphasis on ethics and sustainability issues. Prerequisite: junior standing or greater.
BSS, DSS, EGC, IC

408 - Anthropological Theory - 3
Development of central ideas and schools of thought in anthropology, and their relevance to anthropological topics and methods today. Prerequisite: junior standing, ANTH 111b with a minimum grade of C.
BHUM, BSS, DSS

411 - Urban Anthropology - 3
People in city environments. History of urban development, social and ethnic groups, networks. Comparison of urban areas in Africa, North America, other cultural settings. Not for graduate credit. Prerequisite: ANTH 111b or consent of instructor.
BSS, DSS, EGC, IC

420 - Museum Anthropology - 3
A through case studies and exhibit analysis, this course examines historical developments, theoretical approaches, and contemporary ethical issues in museological approaches to anthropology’s four fields. Prerequisite: junior standing, ANTH 111a or ANTH 111b with a minimum grade of C.
BIOS, BSS, DSS, EUSC, IGR

430 - Zooarchaeology - 3
A study of the archaeology of animal remains. Methods and theories for investigating human use of animals in the past. Emphasis on identification of animal bone. Prerequisites: ANTH 111a, 360b.
BLS, DNSM, EL

432 - Prehistory of Illinois - 3
A study of the history and archaeology of Native Americans in Illinois will include examination of artifacts and artifact casts, and field trips to archaeological sites.
BSS, DSS

435 - Living Cultural Heritage - 3
A study of theories and methods of interpretation applied to artifacts and museum sites that express historic and contemporary American culture, including American ethnic groups. Prerequisite: junior standing.
BSS, DSS, EUSC

469 - Forensic Anthropology Applications - 3
A combined lecture-lab course on human skeletal material analysis, including training in techniques for identifying sex, age, ancestry, trauma, disease, and taphonomic considerations. Prerequisite: ANTH 369.
BLS, DNSM, EL

470a - Special Topics in Biological Anthropology – 3 to 9
Significant problems and issues not treated in other courses. Focus is restricted; content varies and is announced in advance. May be repeated to a maximum of 9 hours as long as no topic is repeated. Not for graduate credit. Prerequisite: ANTH 111a or consent of instructor.
DNSM, EL

470b - Special Topics in Anthropology – 3 to 9
Significant problems and issues not treated in other courses. Focus is restricted; content varies and is announced in advance. May be repeated to a maximum of 9 hours as long as no topic is repeated. Not for graduate credit. Prerequisite: ANTH 111b or consent of instructor.
BSS, DSS

473 - Ethnographic Field School - 3
Students participate in an original research project in linguistic or cultural anthropology directed by the instructor; emphasizes field data methods of analysis and write-up. May be repeated for a maximum of 12 hours. Prerequisite: ANTH 111b with C or better.
BSS, DSS

474 - Biological Anthropology Field School – 3 or 6
A research design, data collection and analysis in primatology, skeletal biology, forensic anthropology, or paleoanthropology requiring an independent project or participation in joint project. May be repeated for a maximum of 12 hours. Prerequisite: ANTH 111a with a grade of C or better.
BLS, DNSM

475 - Archaeological Field School – 3 or 6
A students engage in original archaeological research directed by instructor. Methods of archaeological survey and excavation, learned through active participation in archaeological field and lab work. May be repeated for a maximum of 12 hours. Prerequisites: ANTH 111a with a grade of C or better.
BSS, DSS

476 - Cultural Resources Management - 3
A examination of cultural resource management (CRM) history and laws. Students will gain a practical experience in background research, field survey, evaluation, mitigation, report preparation, and curation. Prerequisite: ANTH 475 with a minimum grade of C.
BSS, DSS

483 - Individual Study in Anthropology – 1 to 6
F guided research on anthropological problems supervised by single faculty member chosen by student. Permission of instructor. Not for graduate credit.

487 - Anthropological Research – 1 to 6
F participation in research activities mentored by a faculty member. Course will develop skills for independent research required in graduate school and careers in applied anthropology. Prerequisite: consent of instructor.
EL

488 - Museum Internship – 1 to 6
F professional experience in aspects of museum work, such as exhibition, interpretation, collections management, or administration. Prerequisite: Permission of instructor.
SS

489 - Professional Internship – 1 to 6
F individually crafted professional experiences in careers related to one or more of the four fields of anthropology. Prerequisite: Permission of instructor.

490a - Senior Assignment Colloquium - 2
(Fsame as ANTH 490)
F application of anthropological knowledge and skills to real world problems through capstone project development and career development activities. Course must be taken concurrently with ANTH 490b. Prerequisite: senior standing, Anthropology majors only, and consent of instructor.

490b - Senior Assignment Mentorship - 1
(Fsame as ANTH 483)
F individualized capstone project development under the supervision of a faculty mentor. Course must be taken concurrently with ANTH 490a. Prerequisite: senior standing, Anthropology majors only, and consent of instructor.

Applied Communication Studies (ACS)

101 - Public Speaking – 3
F theories; strategies; techniques for research, organizing, outlining, and delivering speeches. Emphasis on speaking skills in professional and academic contexts.
FSPC, SKOC (IAI No. C2 900)

103 - Interpersonal Communication Skills - 3
F principles and practices of oral communication emphasizing message formation and delivery, listening, perception,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Advanced Public Speaking</td>
<td>3</td>
<td>Developing and delivering speeches, presentations, and briefings in corporate and professional settings. Models and strategies for technical presentations and group business meetings. [Dist. FAH] Prerequisite: ACS 101 or consent of instructor.</td>
<td>BICS, DFAH, HUM, SKOC</td>
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<tr>
<td>201</td>
<td>Small Group Communication</td>
<td>3</td>
<td>Principles, theories, models, methods of group formation, discussion, and decision-making. Current problems used as focus for exploring group behavior.</td>
<td>BSS, DFAH</td>
<td></td>
</tr>
<tr>
<td>203</td>
<td>Introduction to Organizational Communication</td>
<td>3</td>
<td>Principles, theories, organizational skills necessary to function effectively as professionals. Topics include motivation, goal setting, feedback, delegating, resolving conflicts.</td>
<td>DFAH, BICS, HUM</td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>Oral Argumentation Skills</td>
<td>3</td>
<td>Theories; strategies; techniques for researching, analyzing, constructing, and presenting oral arguments for and against selected contemporary topics and issues. Emphasis on in-class presentations.</td>
<td>BICS, DFAH, HUM</td>
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</tr>
<tr>
<td>210</td>
<td>Interracial Communication</td>
<td>3</td>
<td>Personal dimensions of intergroup communication, especially the interaction of black and white Americans.</td>
<td>BSS, DFAH, EUSC, IGR</td>
<td></td>
</tr>
<tr>
<td>213</td>
<td>Introduction to Public Relations</td>
<td>3</td>
<td>Contemporary theories and practices emphasizing communication skills. Lectures, PR simulations, guest practitioners. Appropriate for majors in any academic area. Students in the PR track must receive a grade of C or better.</td>
<td>BICS, DFAH, HUM</td>
<td></td>
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<tr>
<td>261</td>
<td>Oral Interpretation of Literature</td>
<td>3</td>
<td>Principles and skills in selecting, editing and presenting literature in an oral reading format. Prerequisite: ACS 204, or ACS 101, or consent of instructor.</td>
<td>BFPA, DFAH</td>
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</tr>
<tr>
<td>300</td>
<td>Communication in Interviewing</td>
<td>3</td>
<td>Maintaining effective interaction in interviews, developing questions, gathering information, building rapport. Resume creation and critiques. Emphasizes perspective of both interviewer and interviewee with video analysis.</td>
<td>BICS, DFAH, HUM</td>
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<tr>
<td>303</td>
<td>Communication Training and Development</td>
<td>3</td>
<td>The study and application of communication training in business. Students will gain practical knowledge in training design, training methods and evaluation, adult learning theory. Development efforts will also be examined. Prerequisite: ACS 203 or consent of instructor.</td>
<td>BICS, DFAH</td>
<td></td>
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<tr>
<td>304</td>
<td>Conflict Management and Communication</td>
<td>3</td>
<td>The study and practice of effective conflict management techniques including mediation, negotiation, and active listening strategies. Highlights the interdependence between communication, conflict, and professional growth.</td>
<td>BICS, DFAH</td>
<td></td>
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<tr>
<td>305</td>
<td>Listening</td>
<td>3</td>
<td>Examination of messages from listener perspective, focus is on the listening process, diagnosis of listening difficulties, learning relevant theory and practice of effective listening styles.</td>
<td>BICS, DFAH, HUM</td>
<td></td>
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<tr>
<td>309</td>
<td>Independent Projects in Applied Communication Studies</td>
<td>1 to 6</td>
<td>Projects in communication field studies, independent readings, presentations, etc. Specific assignment to be developed by student in consultation with applied communication studies faculty member prior to enrollment. Credits variable; may be repeated up to a maximum of 6 hours cumulative, 3 of which may count toward an ACS major. Prerequisite: by permit only.</td>
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<tr>
<td>311</td>
<td>Intercultural Communication</td>
<td>3</td>
<td>This course examines the processes, assumptions and barriers in intercultural encounters. Theories of cognition and communication will be explored.</td>
<td>BSS, DFAH, EGC, EUSC, IGR</td>
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<tr>
<td>312</td>
<td>Public Relations Theory and Application</td>
<td>3</td>
<td>Advanced study of PR theories and practices introduced in the introduction to public relations course (ACS 213). Focus on approaches proposed by researchers and applied by practitioners, and implications of such approaches. Prerequisite: ACS 213, BICS, DSS.</td>
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<tr>
<td>313</td>
<td>Public Relations Writing</td>
<td>3</td>
<td>Advanced study and application of practices introduced in ACS 213. Emphasis on developing communication materials for PR campaigns. Prerequisites: ACS 213 and concurrent enrollment in ACS 315. Students in the PR track must receive a grade of C or better.</td>
<td>BICS, DFAH, DSS, HUM</td>
<td></td>
</tr>
<tr>
<td>315</td>
<td>Technology Applications in Public Relations</td>
<td>3</td>
<td>Study of electronic technologies in public relations practices; planning and evaluative strategies for online public relations; development of competence in use and design of basic desktop and online public relations. Prerequisite: ACS 213 and concurrent enrollment in ACS 313.</td>
<td>BICS, DFAH, HUM</td>
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<tr>
<td>323</td>
<td>Interpersonal Communication Theory and Applications</td>
<td>3</td>
<td>Explores beginning, maintaining and ending relationships. Emphasizes gender, racial and cultural influences, power, self-image and metacommunication. This course contains both theoretical and experiential approaches to personal relationships. Prerequisite: ACS 103.</td>
<td>BSS, DFAH</td>
<td></td>
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<tr>
<td>329</td>
<td>Communication Research Methods</td>
<td>3</td>
<td>Contemporary methods applicable to analysis of human communication processes. Includes logic of research design and statistical reasoning. Practical experience with communication survey research design. ACS majors must receive a grade of C or better.</td>
<td>BSS, DFAH</td>
<td></td>
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<tr>
<td>330</td>
<td>Theories of Communication</td>
<td>3</td>
<td>Contemporary and significant historical approaches to developing and testing theories and models of the process of human communication. ACS majors must receive a grade of C or better.</td>
<td>BICS, DSS</td>
<td></td>
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<tr>
<td>331</td>
<td>Gender and Communication</td>
<td>3</td>
<td>(Same as WMST 331) Investigation of the influences of gender on the communication process. Activities, exercises and presentations sensitize students to gender influences on verbal and nonverbal communication.</td>
<td>BSS, DFAH, EUSC, IGR</td>
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<tr>
<td>370</td>
<td>Health Communication</td>
<td>3</td>
<td>Examines the role of communication and culture in general models of health and illness, caregiver-patient relationships, social support, health care systems and health campaigns.</td>
<td>BSS, DFAH, EUSC, IGR</td>
<td></td>
</tr>
</tbody>
</table>
403 - Organizational Communication Theory and Applications - 3
Diagnosing communication problems in organizations and implementing solutions. Research methods and theoretical applications in organizational communication. Prerequisite: ACS 203 or consent of instructor.
BICS, DFAH

409 - Senior Project in Corporate and Organizational Communication - 3
Application of organizational communication theories to service learning project, where students summarize and present their experience to faculty. Not for Graduate Credit. Prerequisites: ACS 200, 329, 330, and 403 with a grade of C or better in each.

410 - Rhetorical Theory and Criticism - 3
Classical and contemporary theories and methods for analyzing and evaluating public address and other significant forms of communication.
BICS, DFAH, HUM

411 - Analysis of Political Communication - 3
Role of communication in politics. Topics include speech preparation, delivery, image promotion, public opinion formation, lobbying behavior as factors in political communication strategies.
BICS, DFAH, HUM

413 - Case Studies in Public Relations – 3
Strategies and critical analyses of ethical issues and approaches in the social and political atmosphere of public relations. Prerequisite: ACS 213 with a minimum grade of C or consent of instructor.
BICS, DFAH, HUM

414 - Public Relations Campaigns I: Research and Planning – 3
Research and planning stages of public relations campaigns, leading to development of comprehensive public relations campaign proposals and formal presentations to clients. This course fulfills part of the Senior Project requirement. Prerequisites: ACS 200, 312, 315, 413 with a minimum grade of D or better; ACS 213, 313, 329, 330 with a grade of C or better.
BICS, DFAH, HUM

415 - Public Relations Campaigns II: Implementation and Evaluation - 3
Implementation and evaluation stages of public relations campaign, culminating with organization of special event and formal presentations to faculty. This course fulfills part of the Senior Project requirement. Prerequisites: ACS 414 with a minimum grade of D or better.

416 - International Public Relations – 3
Upper level course providing opportunities to gain hands-on experience in public relations by undertaking and or reflecting on study abroad experiences. Examination of the impact of cultural and socio-political differences on public relations practices.
BICS, DSS, EGC

419 - Special Topics in Applied Communication Studies - 3
Variable content course emphasizing pertinent contemporary communication issues. May be repeated for total of 9 hours as long as no topic is repeated, 3 of which may count toward an ACS major. Contact the Department of Applied Communication Studies for current topic.
DFAH, HUM

421 - Computer Mediated Communication - 3
Focuses on characteristics of CMC and how CMC functions in various contexts with the intention to familiarize with several concepts and theories. Prerequisite: ACS 103 with a minimum grade of D or better.
BICS, DFAH

422 - Family Communication - 3
Communication functions and behavior within families and how they develop, maintain, enrich, or limit family relationships. Prerequisite: ACS 103 with a minimum grade of D or better.
BSS, DFAH, HUM

423 - Topics in Interpersonal Communication - 3
Rotating topic course addressing current topics in interpersonal communication. May be repeated for a total of 9 hours as long as no topic is repeated.
BSS, DFAH

424 - Senior Project in Interpersonal Communication - 3
Designed for students in the interpersonal communication track. Students conduct an original investigation of an interpersonal communication phenomenon individually or as a group. Not for Graduate Credit. Prerequisites: ACS 201, 323, 329, 330, 421, 422, and 434 (ACS 200 can be concurrent).

430 - Persuasion and Social Influence - 3
The study of contemporary persuasion theories and research toward a clear understanding of the process of social influence; application of concepts in analysis of persuasive messages.
BICS, DFAH, HUM

431 - Public Relations Visual Communication - 3
The study of perceptual and cognitive aspects of visual communication useful for awareness and promotion campaigns. Focus on visual literacy and hands-on opportunities to analyze visuals.
BICS, DFAH

432 - Social Media for Public Relations - 3
Social Media use and measurement in Public Relations campaigns.
BICS, DFAH

433 - Language and Communication - 3
Role and impact of language in communication development, processes and behavior. Relational development and conflict resulting from differences in language usage.
DFAH, HUM, BICS

434 - Nonverbal Communication - 3
DFAH, HUM, BICS

461 - Strategies for Teaching Speech Communication - 3
Philosophy of speech education and approaches for teaching speech in curricular and co-curricular settings. Not for graduate credit. Prerequisite: 12 hours of applied communication studies courses or consent of instructor.

461 - Internship in Applied Communication Studies - 1 to 9 FSM
Study, observation, and professional experience with business and organizations in the various areas of communication under joint supervision of the organizational representative and the Applied Communication Studies faculty sponsor. May be repeated to a maximum of 9 hours, 3 of which may count toward an ACS major. Not for graduate credit. Prerequisites: junior or senior standing, major in ACS, consent of the Director of Internships, acceptance by the organizational representative.

Arabic (ARA)

101 - Elementary Arabic I – 4
Listening, speaking, reading, and writing. Culture of Arabic-speaking countries. Lab included.
BICS, FL, SKFL

102 - Elementary Arabic II – 4
Continuation of 101. Lab included.
BICS, EGC, FL, IC, SKFL
201 - Intermediate Arabic I - 4
Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: ARA 102 or permission of instructor.
BFPA, DFAH

202 - Intermediate Arabic II - 4
Continuation of 201. Lab included. Prerequisite: ARA 201 or permission of instructor.
BFPA, DFAH

Art and Design (ART)

111 - Introduction to Art - 3
FSM
Visual arts: painting, sculpture, architecture, related media. Intended to cultivate discrimination in viewing and understanding works of art. Not for art major credit.
BFPA, IFAH

112a-d - Foundation Studio - 3 each
FS
(a) Drawing I: Basic approaches to drawing, introducing variety of media and subject matter; (b) Visual Organization I: Two dimensions, color; (c) Drawing II: Further development and study of drawing techniques and media investigations, with additional emphasis on concepts and composition; (d) Visual Organization II: Three-dimensions. Prerequisite: c)112a; d)112b.

202a-i - Introduction to Studio - 3 each
FS
Need not be taken in sequence. a) Sculpture: [BFPA, DFAH] Welding, casting, wood construction. Prerequisites: 112c,d with C or better, (concurrent enrollment allowed with Art 112c) or consent of advisor. b) Printmaking: [FPA] Introduction to relief, intaglio, and monotype printmaking techniques. Prerequisites: ART 112a and 112b with a minimum grade of C. c) Ceramics: [BFPA, DFAH] Glazing, firing, d) Painting: Oils. Prerequisites: 112c,d with C or better, (concurrent enrollment allowed with 112d) or consent of advisor. e) Drawing: Composition, figure. Prerequisites: 112c,d with C or better, (concurrent enrollment allowed with 112d) or consent of advisor. f) Textile Arts: [BFPA, DFAH] Introduction to Textile Arts builds compositional and color skills using textile media including: Indigo dyeing, silk-screen printing, felt making, book arts. g) Metalsmithing: Aesthetic and technical pursuits of contemporary jewelry and metalsmithing at beginning level. Prerequisite: 112c,d with C or better, (concurrent enrollment allowed with Art 112c) or consent of advisor. h) Introduction to Digital Photography: [BFPA, DFAH] Basic digital photography, including theory and practice: photographic vision, camera controls, digital editing and printing. Required: a working SLR digital camera with manual controls. i) Graphic Design: [BFPA, DFAH, FPA] Introduction to visual communication problem-solving skills. Exercises: principles of perception, typographic usage, and visual hierarchy. Combines traditional hand skills with basic computer skills. Prerequisites: 112b, c, d with C or better (concurrent enrollment allowed with 112c and 112d) or consent of advisor.

225a,b - History of World Art - 3 each
FS
Major periods and styles. a) (IAI No. F2 901) From prehistory through the Renaissance; (b) (IAI No. F2 902) From Mannerism to the present. Open to all students.
BFPA, DFAH, EGC, IC

289 - Practicum in Art Education - 3
F
Introduction to Art Education. Readings, discussions, observations, and involvement with children and adults in selected meetings. Clinical experience required. Prerequisite: second-semester freshman.

300a,b - Art Education in Elementary Schools - 3 each
Objective, theory, and practices of teaching grades K-6.
(a) Study of developmental stages, emphasis on media and strategies for implementing activities K-6; (b) Emphasis on teaching art from elementary art specialist perspective; developing units of instruction and teaching methodology. Prerequisite: Art 289 with a grade of C or higher or consent of instructor.

302a - Intermediate Digital Photography: Color - 3
Intermediate level digital photography, photographic vision, camera controls, digital editing and printing in a color format. Required: a working SLR digital camera with manual controls. Prerequisites: 112c,d and 202h with grades of C or better (concurrent enrollment allowed with 112c and 112d) or consent of advisor.

302b - Intermediate Digital Photography: Black and White - 3
Intermediate level digital photography; photographic vision, camera controls, digital editing and printing in a gray scale format. Required: a working SLR digital camera with manual controls. Prerequisites: 112b,c,d and 202h with grades of C or better (concurrent enrollment allowed with 112b and 112c) or consent of the instructor.

305 - Ceramics - 3 to 6
FSM
Intermediate study incorporating ceramic wheel work and additional areas of aesthetic and technical development. May be repeated for a maximum of 9 hours. Consent of instructor necessary to take more than 3 hours per semester. Prerequisites: 112c,d, and 202c with grades of C or better (concurrent enrollment allowed with 112c and 112d) or consent of advisor.

310a - Painting Methods - 3 to 6
F
Intermediate painting course using a series format to explore a variety of expressive modes. Includes media experimentation. May be repeated up to 6 credit hours. Prerequisite: 202d with a grade of C or better.

310b - Figure Painting - 3 to 6
Intermediate painting course that introduces the human figure as subject. Expressive and formal uses of the figure in art history will be studied and applied on a personal and group basis. May be repeated up to 6 credit hours. Prerequisites: 202d,e with grades of C or better.

310c - Painting Topics – 3
M
An intermediate painting course offered to cover a rotation of topics not traditionally offered such as aqueous media, plein-air painting and large format painting. Prerequisites: 202d,e with grades of C or better.

311 - Typography - 3
S
Examines technological, and theoretical aspects of typography. Organizational and creative aspects of designing with type are explored through a variety of visual problem-solving activities and projects. Prerequisite: 202i with a grade of C or better or consent of instructor.

312 - Graphic Design I - 3
Intermediate desktop design and publishing; electronic typography, pagination and illustration; symbol, logo, poster and publication design; computer imaging. Prerequisite: 202i with a grade of C or better or consent of instructor.

325 - Studio I - 3 to 6
FSM
Independent study with one or more faculty members. No more than 3 hours per semester without written approval. May be repeated for a maximum of 9 hours. Prerequisite: 6 hours of chosen medium or consent of advisor.

331-a,b - Advanced Drawing - 3 to 6
Technical and conceptual study of the human figure and other subject matter. a) figure in context, b) development in series. Prerequisite: 202e with a grade of C or better.

358 - Relief Printing Processes - 3
Includes traditional and experimental methods with woodcut, linocut, monoprint, various materials, color techniques. Prerequisite: 202b with a grade of C or better.

359 - Intaglio Processes - 3
Hard and soft-ground etching, lift grounds, relief etching.
360 - Engraving and Unique Processes - 3
Course concentrates on relief and intaglio styles of engraving. Other unique processes, including chin colle and printing with a Vandercook press are taught. Prerequisite: 202b with a minimum grade of C or better. No concurrency.

364 - Curricular Development in Elementary and Secondary Art Education - 3
Curricular models used in art education; construction of sample art curriculum for given levels. Prerequisites: 289 and junior standing or consent of instructor.

365 - Art Education in the Secondary School - 3
Teaching methodology for secondary art programs. Reading, discussion, planning art teaching. Emphasis on studio art and art appreciation. Clinical experience at selected secondary school. Prerequisite: 289 or consent of instructor.

384a-c - Fibers - 3 to 6
Techniques and aesthetic concerns in papermaking, felting, dyeing, surface design, weaving, basketry. a) weaving, b) surface design, c) textiles, special topics Prerequisite: 202f with a grade of C or better.

386a-c - Metalsmithing II - 3 to 6
Advanced metal fabrication. a) metal casting and fabrication, b) metal forming and fabrication, c) color on metal and fabrication. Prerequisite: 202g with a grade of C or better.

393a-c - Sculpture - 3 each
Exploration of contemporary sculpture making with emphasis on development of techniques and ideas. a) modeled form, b) cast form, c) assembled form. Prerequisite: 202a with a grade of C or better.

401 - Research in Painting - 3 to 6
Advanced problems in painting. May be repeated to a maximum of 9 hours. Prerequisites: 310a,b with grades of C or better or consent of advisor. Art majors only.

402 - Research in Sculpture - 3 to 9
Exploration of current trends in sculpture-making, with emphasis on interaction of technique and idea. May be repeated to a maximum of 12 hours. Prerequisites: 393a and, 393b, or 393c with grades of C or better or consent of advisor. Art majors only.

405 - Seminar - 3
Preparation for career as studio artist and/or artist-teacher at college level. Career analysis, portfolio presentation for graduate school and galleries. Visiting professional lecturers in art and law, grant writing, gallery relations, artist's careers, etc. Prerequisite: 75 or more hours. Art majors only.

408a-c - Art Education for Elementary Teachers - 3 each
(a) Art education for disabled students. (b) Development of motivational and instructional materials; (c) Advanced materials and methods for classroom teacher. Prerequisite: 300a, student teaching, or consent of instructor.

410 - Research in Printmaking - 2 to 6
Advanced study in traditional or experimental methods. May be repeated for a maximum of 12 credits. Can be taken concurrently with ART 358, ART 359, or ART 360. Prerequisite: 358, 359 or 360 with grades of C or better. Art majors only.

412 - Research in Graphic Design - 3
Directed practicum in advanced client-based desktop design and publishing. May be repeated to a maximum of 9 hours. Prerequisite: 311, 312 with a grade of C or better, or consent of advisor. Art majors only.

413 - Conceptual Art and Digital Media - 3
Conceptual development through computer-based image capture and manipulation and integration of digital technology with traditional studio arts and or electronic media applications. May be repeated up to 9 hours. Prerequisites: 302a or 312 or consent of instructor. Art majors only.

414 - Graphic Design History Through Studio Projects - 3
History of visual communication, including historic movements in Graphic Design and Advertising. Coursework combines lecture materials, quizzes, readings, and research into student projects. Prerequisite: 225a or 225b, and 311 and 312, with a minimum grade of C or better, or graduate standing or consent of instructor.

415 - Visual Identity: Logo and Branding Design - 3
Application of advanced problem-solving skills with planning, organization, and development of design strategies for logos and branding campaigns addressing institutional, corporate, or service industries. May repeat up to 6 credit hours. Prerequisite: 311 and 312, with a minimal grade of C or better, or graduate standing or consent of instructor.

416 - Glassworking - 3 to 6
Basic methods of forming hot and cold glass. Development of creative ideas related to use of glass as art medium. May be repeated to a maximum of 12 hours. Prerequisite: consent of instructor or advisor. Art majors only.

420 - Advanced Ceramics - 3 to 6
Supervised research in specific ceramic areas of technical and aesthetic interests. May be repeated for a maximum of 9 hours. Prerequisite: 305-9 or consent of advisor. Art majors only.

422 - Research in Photography - 3
Advanced theory and practice in one of several topics: alternative non-silver processes; large format camera/zone system; artificial lighting. May be repeated to a maximum of 9 hours. Prerequisites: 302a and b or consent of advisor. Art majors only.

423 - Advanced Photography Seminar - 3
Advanced seminar exploring personal portfolio development, contemporary theoretical and conceptual issues, as well as developing critical writing skills as they pertain to the photography medium. May be repeated for maximum of 9 credit hours. Prerequisite: 302a or 302b or consent of advisor.

424 - Baroque Art – 3
Major developments in Baroque painting, sculpture, and architecture in seventeenth-century Italy, Spain, France, Flanders, and the Dutch Republic. Prerequisites: 225a or 225b, and 311 and 312, with a minimum grade of C or better, or consent of instructor. BHUM, DFAH, EGC, IC

426 - Senior Studio Assignment - 3
Varied content; group and/or individually designed Senior Assignment Projects which may include travel, exhibition, research or other approved project. Prerequisite: consent of advisor. Art majors only.

430 - Studies in Art I - 3 to 6
Advanced work in any studio area or art education. May be repeated to a maximum of 9 hours. Students may enroll for no more than 3 hours per semester without written approval. Prerequisite: consent of advisor. Art majors only.

440 - Publication and Information Design - 3
Techniques in the application of grid, image, and text, using traditional and contemporary approaches to complex and integrated layout design. Editorial, magazine, and institutional design. May be repeated to a maximum of 6 hours. Prerequisite: 311 and 312, with a minimum grade of C or better, or graduate standing or consent of instructor.

441 - Research in Drawing - 3 to 6
Advanced research drawing experiences emphasizing individually realized content through development of compositions. May be repeated to a maximum of 12 hours.
447a, b - **Ancient Art** - 3 each
Art and architecture from prehistory through Rome. (a) Prehistoric to Greek late archaic; (b) Greek high Classic to Rome. Prerequisite: 225a with a grade of C or better, or consent of instructor.

**DFAH, EGC, FPA, IC**

448 - **Early Christian and Medieval Art** - 3 each
Visual Arts of the Early Christian and Medieval periods from the 4th century through Romanesque and Gothic. Prerequisite: 225a with grade of C or better, or consent of instructor.

**DFAH, EGC, FPA, IC**

449 - **Italian Renaissance Art** - 3
Architecture, sculpture, and painting of the Late Gothic, Renaissance, and Mannerist periods in Italy. Prerequisites: 225b with grades of C or better, or consent of instructor.

**BHUM, DFAH, EGC, IC**

450 - **Early Childhood Art Education** - 3
Art Education practices in early childhood art education. Methods and materials based on developmental needs. Prerequisite: 300a or consent of instructor.

451 - **Northern Renaissance Art** - 3
Architecture, sculpture, and painting of the Renaissance and Mannerist periods in Northern Europe. Prerequisites: 225a,b with grades of C or better, or consent of instructor.

**BHUM, DFAH, EGC, IC**

452 - **Art Education for Older Adults** - 3
Physical, artistic, and creative development of older adults. Development of specific instructional approaches for older learners. Prerequisite: senior status.

453 - **Introduction to Museology** - 3
Museum ethics, collections policies, security, administration and organization, public law, sources of funding, grant preparation. Not for art history credit. Prerequisite: junior standing or consent of instructor.

**DFAH, FPA**

454 - **Curatorship: Exhibition Management and Design** - 3
Exhibition design, preparation, labeling, security, hanging and display techniques and construction, lighting, traffic flow, docent training. Not for art history credit. Prerequisite: 453.

**DFAH, FPA**

455 - **Documentation of Collections** - 3
Accessioning and deaccessioning processes, research, collection management, use of computers, narrative, photodocumentation. Not for art history credit. Prerequisite: 453.

**DFAH, FPA**

467 - **Islamic Art and Architecture** - 3
Architecture, sculpture, and painting of the Late Gothic, Renaissance, and Mannerist periods in Italy. Prerequisites: 225a,b with grade of C or better.

**BHUM, DFAH, IC**

468a, b - **Native Arts of the Americas** - 3 each
Arts of indigenous societies of the Americas presented in cultural and geographical sequence, ancient to 19th century a) pre-Columbian art; b) North America. Prerequisites: 225a,b with grades of C or better or consent of instructor.

**DFAH, EGC, FPA, IC**

469a, b - **Primal Art: Africa and Oceania** - 3 each
Arts of indigenous societies of sub-Saharan Africa and of Oceania: Polynesia, Micronesia, and Melanesia, presented in cultural and geographical sequence. (a) Africa; (b) Oceania. Prerequisites: 225a,b with grades of C or better or consent of instructor.

**DFAH, EGC, FPA, IC**

470 - **Topics in Art History** - 3
Topics may include: seminars on specific artist or area; investigations of branches of art historical inquiry; major trends and issues in art since 1970. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisites: 225a,b with grades of C or better or graduate standing.

**BHUM, DFAH**

471 - **Topics in Early Modern Art** - 3
Variable content course in the history of Renaissance and Baroque Art. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisites: 225b with grade of C or better or consent of instructor.

**BHUM, DFAH**

472 - **Topics in Modern Art** - 3
Variable content course in the history of Modern Art. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisites: 225b with grade of C or better or consent of instructor.

**BHUM, DFAH**

473 - **Women in Art** - 3
History of women artists from the Renaissance to the present. Prerequisites: 225b with grade of C or better or consent of instructor.

**BHUM, DFAH**

474 - **Topics in Public Art** - 3
Variable content course in the history of Public Art. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisites: 225a,b with grades of C or better or consent of instructor.

**BHUM, DFAH**

475 - **History of Photography** - 3
Principal technical and stylistic developments in photography from the early 19th century to the present. Prerequisites: 225a with grades of C or better or graduate standing.

**BHUM, DFAH**

476 - **History of Modern Architecture and Design** - 3
Principal technical and stylistic developments in architecture and design from the early 19th century to the present. Prerequisite: 225b with grade of C or better or graduate standing.

**BHUM, DFAH**

480 - **American Art** - 3
Survey of the history of art in the U.S. from the Colonial period to the present day. Prerequisite: 225b with a grade of C or better.

**BHUM, DFAH**

481 - **Modern Art** - 3
S
Principle movements and theories of art in the modern period. Prerequisite: ART 225b with a grade of C or better or consent of instructor.

**BHUM, DFAH**

482 - **Contemporary Art** - 3
Principle movements and theories of contemporary art, ca. 1950 to the present. Prerequisite: ART 225b with a grade of C or better or consent of instructor.

**BHUM, DFAH**

483 - **Research in Art History** - 3
Individual research in painting, sculpture, architecture, and related arts of various periods. May be repeated to a maximum of 9 hours provided no topic is repeated. Prerequisites: 225a,b with grades of C or better or consent of instructor.

**DFAH, FPA**

484 - **Research in Fibers** - 3 to 6 SM
Individual exploration of advanced fiber concerns in technique and mixed media approaches. Concepts emphasizing...
integration of technical and aesthetic idea. May be repeated to a maximum of 12 hours. Consent of instructor for over 3 hours per semester. Prerequisite: 384 with a grade of C or better or consent of advisor. Art majors only.

485 - Art History Methods and Research - 3 FS
Study of primary methods of research, interpretation, and writing in art history. Prerequisite: ART 225A and 225B with a grade of C or better, or consent of advisor. B'HUM, DFAH

486 - Research in Metalsmithing - 2 to 6 FS
Concentrated research in advanced metalsmithing techniques and concepts. May be repeated to a maximum of 12 hours. Prerequisite: 386 with a grade of C or better, or consent of advisor. Art majors only.

498 - Internship in the Arts - 3 to 6 FSM
Involvement in work, study, or research designed and supervised by selected faculty members and cooperating institutions. May be repeated for a maximum of 9 hours. Prerequisite: consent of advisor. Art majors only.

499 - Senior Thesis Exhibition - 3 FSM
Nature of final thesis determined according to student’s major studio area and directed by student’s major advisor and committee. Consists of thesis exhibition and written statement of artistic intent. B.F.A candidates only. Prerequisite: senior standing. Art majors only.

Biological Sciences (BIOL)

111 - Contemporary Biology - 3 FSM
Contributions of biology to understanding ourselves and our world. Development, nature and human implications of cell theory, heredity, the modern synthetic theory of evolution, population dynamics, ecology and environmental problems. BLS, INSM [IAI No. L1 900]

140 - Human Biology - 3 FSM
Introduction and application of basic human biology concepts, including cell theory, genetics, systems biology, and evolution. Not for credit for Biological Sciences majors. BLS, INSM [IAI No. L1 904]

150 - Introduction to Biological Sciences I - 4 FSM
First of a two-course sequence, introduction to biochemistry, molecular genetics, cell structure and function, and evolution. Lab required. Prerequisite: CHEM 121a with a grade of C or better or concurrent enrollment. BLS, EL, INSM, LNSM [IAI No. L1 900L]

151 - Introduction to Biological Sciences II - 4 FSM
Second of a two-course sequence, introduction to major taxonomic groups, with emphasis on evolutionary relationships and ecological principles. Lab required. Prerequisite: BIOL 150, CHEM 121a and CHEM 125a with grades of C or better. BLS, EL, INSM, LNSM-

203 - Human Sexuality and Reproduction - 3 FSM
Sexual anatomy and physiology, normal and abnormal embryonic and fetal development, pregnancy and birth, birth control, sexual relationships, attitudes, behavior, sexual diseases and disorders. Prerequisite: 111 or or 140 or 150 or 151 with a C or better or equivalent. BLS, DNSM, EH

204 - Biotechnology and Society - 3
An overview of biotechnology, including basic molecular biology, genetic engineering, transgenic organisms, the human genome. Discuss applications and concerns at a national and global level. Declared majors and minors only. Not for credit for Biological Sciences majors or minors. Prerequisites: BIOL 111, 140, 150 or 151 with a grade of C or better or consent of instructor. BLS, DNSM, EGC, II

205 - Human Diseases - 3 F
A molecular, cellular, organicism or environmental approach to the human body and its dysfunctions, disorders and diseases including their causes, treatments and recent biomedical advances. Prerequisite: 111 or 140 or 150 or 151 with a grade of C or better. BLS, DNSM, EH

220 - Genetics - 4 FS
Introduction to transmission, molecular and population genetics with applications to all organisms. Lab required. Prerequisites: BIOL 150 and 151, CHEM 121b and 125b with grades of C or better, and concurrent enrollment in CHEM 241a. BLS, DNSM, EL, LNSM

240a, b - Human Anatomy and Physiology - 4 each FSM
Functional architecture of the human body. (a) Tissues, skeletal, muscular, and nervous systems; (b) Continuation of (a). Endocrine, Circulatory, Respiratory, Digestive, and Urinary systems. Not for major credit. Prerequisites: (a) 140 or 150 or 151 with a grade of C or better and CHEM 120a or 120n or 121a with a grade of C or better or consent of instructor. (b) 240a with a grade of C or better. BLS, EL, LNSM [(a) INSM] [IAI No. L1 904L] (b) DNSM

250 - Bacteriology - 4 FS
Structure, nutrition, and genetics of bacteria; control of microbial growth; comparison of medically important bacteria and viruses; host response to infectious disease. May not take if previously received credit for BIOL 350 or equivalent. Prerequisites: 111, 140, or 150 and CHEM 120a, 120n, 121a, or 241a with grades of C or better. DNSM, EL, LS

319 - Cell and Molecular Biology - 4 FS
Introduction to cellular processes including gene expression, protein and vesicular trafficking, and cell signaling. Differentiation between eukaryotes and prokaryotes. Prerequisites: 150, 151, 220, and CHEM 241A with grades of C or better. DNSM, EL, LS

321 - Plant Biology - 4 F
A comprehensive lab-oriented course in plant biology. Two laboratories, two lectures. [EEE, DIV, FIELD electives] Prerequisites: BIOL 150 and 151 with grades of C or better, or consent of instructor. DNSM, EL, LS

327 - Evolution - 3 FS
Evolutionary change as shown in heredity, population genetics, speciation, adaptation, natural selection, development, behavior, geographical distribution, the origin of life. [EEE elective] Prerequisites: 150, 151, and 220 with grades of C or better. DNSM, LS

330 - Environmental Health and Waste Management - 3 (same as ENSC 330) FSM
Introduction to human health effects of pollution and environmental hazards of a biological, radiological, or physical nature in food, water, air, soil, animals, and wastes. Prerequisite: 111 and CHEM 111 or BIOL 150; or equivalent(s) or consent of instructor. DNSM, EGC, II, LS

335 - Introduction to Immunology - 3 S
Anatomical, cellular, and biochemical aspects of the immune response. Immune mechanisms in transplantation, infectious disease, autoimmune disease. [GCB elective] Prerequisites: 220 with a grade of C or better or consent of instructor. DNSM, LS

337 - Animal Histology - 4 F
The structure and function of vertebrate tissues as portrayed by major histological methods. [GCB, MPD electives] Prerequisites:
220 with a grade of C or better.
DNSM, EL, LS

340-Physiology - 4 FS
Function and regulation of major organ systems in vertebrates, neural responsiveness and integration, homeostasis of body fluids, circulation, respiration, organic maintenance, and hormonal control. [MPD elective] Prerequisites: BIOL 319 and PHYS 131b with grades of C or better, and overall GPA of 3.0.
DNSM, EL, LS

350-Microbiology - 4 FM
Structure, metabolism, and genetics of bacteria and bacteriophages. Role of bacteria in disease, technology, and the environment. [DIV, GCB electives] Prerequisites: 150, 151, 220 and CHEM 121b with grades of C or better.
DNSM, EL, LS

365-Ecology - 4 FS
Scope of ecology, population ecology, models of population growth, competition, predation, diversity and stability of ecosystems, community structure, ecological energetics. [EEE elective] Prerequisites: 150 and 151 with grades of C or better.
DNSM, EGC, EL, II, LS

371-Plants and Civilization – 3
A multidisciplinary introduction to the basic principles of plant science with a strong emphasis on the economic aspects and cultural importance of plants. [EEE elective] Prerequisites: 151 with a grade of C or better or consent of instructor.
DNSM, EGC, IC, II, LS

380-Invertebrate Biology - 4
Discussion of the major phyla of marine and freshwater invertebrates focusing on structure, function, development, evolutionary relationships, and ecological adaptations. [EEE, DIV electives] Prerequisites: 150, 151 with grades of C or better or consent of instructor.
DNSM, EL, LS

415-Laboratory in Animal Cell and Tissue Culture - 4
Theory and techniques of culture growth, differentiation, metabolism and transformation. Two lectures and two labs per week. [GCB elective] Prerequisite: junior standing and 220 a with grade of C or better, or instructor consent.
DNSM, EL, LS

416-Techniques in Plant Cell and Tissue Culture - 4
Theory and techniques of culture growth, differentiation, metabolism and transformation. Two lectures and two labs per week. [GCB, MPD electives] Prerequisite: junior standing and 220 with grades of C or better, or consent of instructor.
DNSM, EL, LS

417-Quantitative Methods in Experimental Biology - 4 S
Selection and application of statistical techniques appropriate for biological data. Practical experience using spreadsheets and statistical software. Prerequisites: junior standing and 220 with a grade of C or better, or consent of instructor.
LS

418a-Recombinant DNA – 3 F
Basic principles of gene cloning including the methods of creating recombinant DNA molecules, transfer of genes into recipient cells, regulation following gene transfer. [GCB Elective] Prerequisites: 220 and 319 with grades of C or better, or consent of instructor.
DNSM, LS

418b-Recombinant DNA Laboratory - 3 S
Experiments in gene manipulation using bacterial genes exempt from federal guidelines concerning recombinant DNA. Six laboratory hours per week. Prerequisite: 418a with a grade of C or better and consent of instructor.
DNSM, EL, LS

421-Human Genetics – 3 M
Human genetics, human chromosomes; Mendelian characters in man, genetic inference, pedigrees, twins, mutation, genetics and medicine. [GCB elective] Prerequisites: junior standing and 220 with a grade of C or better.
DNSM, LS

422a-Population Genetics - 3
Unites the fields of molecular genetics and evolutionary biology to explore processes and mechanisms of evolutionary change; provides a theoretical basis for interpreting molecular variation. [EEE, GCB electives] Prerequisites: 220 and 327 with grades of C or better, or consent of instructor.
LS

422b-Population Genetics Lab – 1
Molecular and analytical techniques commonly employed in basic and applied fields of population genetics. Requires concurrent enrollment in BIOL 422a. Prerequisites: 220 and 327 with grades of C or better, or consent of instructor.
LS

423-Forensic Biology – 3
Principles of human anatomy and physiology, population and molecular genetics, botany, entomology are reviewed in the context of their applications to legal contexts. [EEE, MPD electives] Prerequisites: junior standing and 220 with a grade of C or better, or consent of instructor.
LS

425-Developmental Biology - 3
Embryonic and postembryonic developmental processes in animals. Topics include: fertilization, morphogenesis, pattern formation and the cellular control of these events. [GCB, MPD electives] Prerequisites: 220 and 319 with grades of C or better.
LS

427-Evolutionary Medicine - 3
Application of evolutionary theory to medical science providing insight into understanding of challenges as diverse as infectious agents, allergies, cancer, obesity and mental disorder. [EEE] Prerequisites: 220 with grades of C or better or consent of instructor.
LS

431-3 Cellular and Molecular Basis of Disease – 3
Causes and pathophysiology of diseases presented from the cellular and molecular levels. [GCB elective] Prerequisites: 319 with grade of C or better.
LS

432-4 Advanced Cell Biology - 4
Analysis of advanced topics in cell and molecular biology. Emphasis on laboratory projects and current literature with supporting lectures. [GCB elective] Prerequisite: BIOL 319 with a grade of C or better, or instructor consent.
DNSM, LS

434-Fundamentals of Aquatic Ectotox - 3
Biological effects of aquatic pollution from the molecular to the ecosystem level; uptake, metabolism, excretion, food chain transfer, environmental fate, aquatic pollutants transport. [EEE, MPD electives] Prerequisites: junior standing and ENSC 220 & ENSC 330 or BIOL 319 or 365 or CHEM 471 with grades of D or better, or consent of instructor.
LS

435-Ecological Risk Assessment – 3
Introduction to science behind environmental policy/regulations. Ecology, chemistry, and toxicology application to assess present and future pollution risks to populations, communities, ecosystems. [EEE elective] Prerequisites: junior standing and 330 or 465 or ENSC 330 or CHEM 471 with grades of D or better, or ENSC 330 with a grade of C or better.
DNSM, LS
436-Fundamentals of Molecular Toxicology & Pharmacology – 3
Molecular, biochemical, and cellular mechanisms of toxicity, mode of action, metabolism, and interactions of environmental pollutants, toxic chemicals, and drugs. [EEE, GCB electives]
Prerequisites: junior standing and ENSC 220 & ENSC 330 or BIOL 319 or CHEM 471 with grades of D or better.
LS

440-Functional Human Anatomy - 4 S
Systematic and regional study of the human body, including thorax, abdomen, pelvis, back, limbs, head, neck, emphasizing structural, functional and clinical relationships. [MPD elective]
Prerequisites: junior standing and BIOL 220 with a grade of C or better, or consent of instructor.
BLS, DNSM, EL

441-Advanced Physiology - 3
Energy procurement and balance, intermediate metabolism, temperature control, advanced topics of cardiovascular and respiratory mechanisms; body fluid regulation, and some environmental adaptations. [MPD elective]
Prerequisite: 340 with a grade of C or better.

444a-Fundamentals of Neuroscience – 3 F
Integration of cellular and molecular biology, neuroanatomy, neurophysiology in nervous system function and control of behavior. Current mechanisms of learning, memory, drug actions, motor control. [MPD elective]
Prerequisite: BIOL 319 with a grade of C or better, or consent of instructor.
DNSM, LS

444b-Fundamentals of Neuroscience Laboratory - 1
Neuroscience experiments including molecular neurobiology, electrical recording, drug reactions, brain dissection, and/or histology. Prerequisite: BIOL 444a or concurrent enrollment, or consent of instructor.
LS

451-Microbial Pathogenesis - 3 S
Analysis of the mechanisms of pathogenesis employed by bacteria, fungi, protozoa and viruses, including transmission, invasion, colonization, virulence factors, pathology, epidemiology, and treatment. [GCB elective]
Prerequisite: junior standing and 350 with a grade of C or better, or consent of instructor.
DNSM, LS

452-Molecular Genetics - 3 F
Molecular basis of genetics in both prokaryotes and eukaryotes, including structure and replication of DNA, gene expression, transfer of genetic material between organisms. [GCB elective]
Prerequisites: 220, 319 with grades of C or better, or consent of instructor.
DNSM, LS

455-Virology - 3 F
Biochemical and physical structure of viruses and their mode of replication in infected cells, including latency and viral oncogenesis. Not for graduate credit. Prerequisites: BIOL 350, 332 or 430 or CHEM 241 with grades of C or better.
DNSM, LS

456-Principles of Biophysics - 4 F
Interdisciplinary approach to biophysics for students in biology, chemistry, and bioengineering. Weekly labs will include a variety of guest scientists demonstrating biophysical applications. Prerequisites: junior standing and PHYS 131 and 132 and MATH 145 or 150 or instructor consent.
DNSM, EL

460-Wildlife Management - 3
Wildlife ecology, conservation, and management including effects of habitat, behavior, disease, and predation on populations. Optional field trips. [EEE elective] Prerequisites: junior standing and 365 with a grade of C or better or consent of instructor.
DNSM, LS

461-Plants and Environment - 4
Environmental effects on plant growth, reproduction and distribution. Adaptive responses to environmental stress examined and measured. [EEE, MPD, FIELD electives]
Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor.
DNSM, LS

462-Biogeography - 3
Past and present spatial relationship of plants and animals. Specification, dispersal and variation are addressed. [EEE, DIV electives]
Prerequisite: junior standing and 365 with a grade of C or better, or consent of instructor.
DNSM, LS

463-Conservation Biology - 4 S
Examination of concepts and principles of conservation biology, leading to an understanding of threats to biodiversity and techniques to minimize ecosystem degradation and biodiversity loss. [EEE elective]
Prerequisite: junior standing and 365 with grade of C or better or instructor consent.
LS

464-Applied Ecology - 3 (same as ENSC 450) S
Applying ecological concepts and principles for solving, predicting and managing current important ecological problems, such as global climate change, conservation, wetland restoration, and environmental remediation. Not for graduate credit. Prerequisite: 365 with a grade of C or better or consent of instructor.
DNSM, LS

465-Aquatic Ecosystems - 4 (same as ENSC 465) F
Biogeochemistry and community structure of aquatic systems. Three lectures, one three-hour lab per week. Prerequisites: 151 and Chemistry 121b with grades of C or better.
DNSM, EL, LS

466-Terrestrial Ecosystems – 3 (Same as ENSC 466) F
Energy flow and mineral cycling as they interact with community organization and other processes in terrestrial ecosystems. Three hours lecture per week. Weekend field trips may be required. Prerequisite: 220 with a grade of C or better or consent of instructor.
DNSM, LS

467-Animal Physiological Ecology - 3
Examine how an organism's environment affects its physiology. Comparative approach will explore physiological adaptations to a variety of environmental factors. [EEE, MPD electives]
Prerequisites: junior standing and 220, and either 340 or 365 with grades of C or better or instructor consent.
LS

468-Pollution Ecology – 3 F
The application of biological, ecological, chemical, and physical sciences to understanding the fate and transport of pollutants through ecosystems. [EEE elective]
Prerequisite: junior standing and 220 and 365 with a grade of C or better or consent of instructor.
LS

469-Ecology of Plants - 4
Plant adaptations; plant population and community ecology; introduction to landscape ecology. Focuses on primary literature, scientific communication, data analysis, and plant natural history. [EEE, FIELD elective]
Prerequisites: junior standing and 220, 365, or equivalent or consent of instructor.
DNSM, LS
470-Field Biology - 4
Distribution and ecology of regional biological communities. Natural history and identification of local plants and animals. In class field trips. [EEE, Field electives] Prerequisites: junior standing and 220 with a grade of C or better. DNSM, LS

471-Plant Systematics - 4
Examination of basic processes in vascular plant evolution. Local flora characteristics and identification. [EEE, DIV, FIELD electives] Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

472-Topics in Plant Physiology - 4
Examination of plants cells, tissues, and morphology. Two lectures and 2 labs per week [EEE, MPD electives]. Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

473-Plant Anatomy - 4
Examination of plant cells, tissues, and morphology. Two lectures and two labs per week [EEE, MPD electives]. Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. LS

474-Plant Taxonomy - 4
A field-oriented course in which students collect and identify plant specimens using professional taxonomic keys. [EEE, DIV, FIELD electives] Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

475-Plant Molecular Biology - 4
Molecular processes underlying a plant’s ability to sense its environment, utilize available resources, regulate gene expression and alter development based on environment and resources. [GCB elective] Prerequisites: junior standing and 319 with a grade of C or better.

480-Animal Behavior - 4
Examination of mechanisms, evolution, and ecological consequences of animal behavior. Concepts will be introduced through lectures, laboratory and field experiments, and independent projects. [EEE, DIV, FIELD electives] Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. LS

481-Quantitative Morphology - 4
Principles of the quantitative analysis of morphology, or an organism’s size and shape, and its consequences. [MPD elective] Prerequisite: junior standing and 220 with a grade of C or better, or consent of instructor. EL, LS

483-Entomology and Insect Collections - 4
An introduction to the life history, ecology, physiology, behavior, forensics, diversity, and taxonomy of insects. [EEE, DIV, FIELD electives] Prerequisite: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

485-Ichthyology - 4
Taxonomy, ecology, distribution, behavior, and anatomy of fishes. Emphasis on local fauna. Saturday field trips required. [EEE, DIV, FIELD electives] Prerequisite: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

486-Herpetology - 4
Living and fossil amphibians and reptiles, evolution, relationships, morphology, behavior. Two lectures and 2 laboratories per week. Saturday field trips required. [EEE, DIV, FIELD electives] Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

487-Iornithology - 4
Examination of form, function, behavior, ecology and evolution of birds. Emphasis on local fauna. Saturday field trips required. [EEE, DIV, FIELD electives] Prerequisite: junior standing and 220, with a C or better or consent of instructor. LS

488-Mammalogy - 4
Morphology, systematics, natural history, taxonomy, evolution of living and fossil mammals. Two lectures and 2 laboratories per week. [EEE, DIV, FIELD electives] Prerequisites: junior standing and 220 with a grade of C or better or consent of instructor. DNSM, LS

489-Comparative Vertebrate Anatomy - 4
A systematic study of the vertebrate body. Comparative approach will explore the anatomical similarities and differences among major vertebrate taxonomic groups. [EEE, MPD electives] Prerequisites: junior standing and 220 with a grade of C or better, or instructor consent. DNSM, LS

490-Topics in Biology - 2-4
In-depth examination of an area of Biological Sciences. May be repeated up to 8 hours as long as neither topic nor professor is repeated. Not for graduate credit. LS

491-Readings in Biology - 0-4
FSM Supervised readings in specialized areas. Two hours of 491 or 493 may count toward BIOL elective credit. Not for minor credit. Prerequisite: consent of instructor. LS

492-Biological Sciences Colloquium I – 1 FS
Seminar to consider recent advances in science. Not for graduate credit. Prerequisites: Completion of BIOL 150, 151, and BIOL 220 with grades of C or better and Junior standing. LS

492m-Biological Sciences Colloquium II - 1 FS
Seminar to consider recent advances in science. Not for graduate credit. Prerequisites: Completion of BIOL 150, 151, and BIOL 220 with grades of C or better and Junior standing. 492 and Senior status. Must be mentored by a faculty member. LS

493-Special Problems in Biology - 0-4
FSM Research on biological problems. Two hours of 491 or 493 may count toward BIOL elective credit. Prerequisite: consent of instructor. LS

494-Methods of Teaching Biology in the Secondary School - 3
Methods in biology teacher certification (K-12). Planning and presenting lectures and laboratories, education software, pertinent teaching materials, and discussion of controversial topics in the classroom. Prerequisites: junior or senior standing, 2.5 G.P.A. in Biological Sciences and consent of instructor. DNSM, LS

495a-f-Clinical Topics in Medical Technology - 1-12
FSM Hospital-based lecture at an accredited and affiliated school of medical technology. (a) Clinical Biochemistry; (b) Clinical Microbiology; (c) Clinical Hematology/Coagulation; (d) Clinical Immunology/Serology/Immunohematology; (e) Urinalysis/Clinical Microscopy; (f) Special Topics in Medical Technology. May be repeated to a maximum total of 36 hours. Not for graduate credit. Prerequisite: acceptance for clinical education into an affiliated school of medical technology. LS
496-Rainforest Service Learning for Educators - 4
Service learning course for educators investigates sustainable development issues in rainforest preservation through study of culture, language, ecology, and geography. Consent of instructor required.
DNSM, EGC, II, LS

497-Senior Assignment - 1
Demonstration of proficiency in biological sciences. Not for graduate credit. Prerequisites: BIOL 150, 151, 220 with grades of C or better, completion of BIOL 492, and Senior standing.

498-Biology Internship - 1-4
Applied biology carried out as independent study. Work will be supervised by a faculty advisor and an off-campus supervisor where the work is performed. Prerequisites: Biology majors.
BLS

Chemistry (CHEM)

1111-Contemporary Chemistry - 3
Introduction to chemical principles, atomic and molecular nature of matter, pervasive role of chemical knowledge and technology in today’s world. Three lecture hours per week.
BPS, INSM [IAI No. P1 903]

113-Introduction to Chemistry - 3
Preparation for university chemistry. Mathematical techniques, problem solving, chemical terms, concepts, laws. For students with inadequate preparation in high school chemistry. May not be applied to major or minor in chemistry. Prerequisite: AD 095 or equivalent.
PS

120a,b-General, Organic, and Biological Chemistry – 3 each FSM
Not for chemistry majors. Primarily for students planning careers in nursing and allied health professions. (a) General and organic chemistry; (b) Organic and biological chemistry. Three lecture hours per week. Must be taken in sequence. Prerequisite: (a) concurrent enrollment in 124a. (b) 120a: concurrent enrollment in 124b. (a) BPS, INSM [IAI No. P1 902] (b) BPS, DNSM

120n-Nursing Principles of General, Organic, and Biological Chemistry – 4
Not for chemistry majors. Primarily for students planning careers in nursing and allied health professions. Three 75-minute lectures per week. Prerequisite: 1) one year of high school chemistry and placement by ACT Math score, OR 2) One year of high school chemistry and placement by chemistry readiness exam.
BPS, DNSM, INSM

121a,b-General Chemistry – 4 each FSM
University-level modern chemistry for science students, atomic structure, molecular bonding, structure, stoichiometry, chemical change, equilibrium, qualitative analysis. Four lecture hours per week. Must be taken in sequence. Prerequisites: (a) high school chemistry and: placement by ACT Math score; or placement by Chemistry Readiness Exam; or successful completion of 113 and MATH 120 (or higher MATH course), (b) C or better in 121a. (a) BPS, INSM or DNSM [IAI No. P1 902], (b) BPS, DNSM

124a,b-General, Organic, and Biological Chemistry Laboratory – 1 each FSM
Not for chemistry majors. Safety practices and basic techniques. Topics complement CHEM 120. (a) General and organic chemistry. (b) Organic and biological chemistry. One three-hour laboratory per week. Must be taken in sequence. Prerequisite: (a) concurrent enrollment in 120a. (b) 124a; concurrent enrollment in 120b.
BPS, EL [(a) INSM, IAI No. P1 902L; (b) DNSM

124n-Nursing Principles of General, Organic, and Biological Chemistry Laboratory - 1
Not for Chemistry majors. Safety practices and basic techniques. Topics complement CHEM 120n. One three-hour laboratory per week. Prerequisite: concurrent enrollment in CHEM 120n.
BPS, EL, DNSM, INSM

125a,b-General Chemistry Laboratory -1 each FSM
Laboratory safety practices, techniques, qualitative and quantitative analysis, chemical change and equilibria. One three-hour laboratory per week. Prerequisite: concurrent enrollment in corresponding 121 lecture.
BPS, DNSM, EL, IAI No. P1 902L

131-Engineering Chemistry - 4
Fundamental principles of chemistry especially for students planning careers in engineering fields. Concepts represent the basic principles of chemistry with emphasis on engineering applications. Prerequisites: High School chemistry and placement by ACT score; or placement by chemistry Readiness Exam; or successful completion of 113 and Math 120 or higher Math course.
BPS, DNSM, INSM

135-Engineering Chemistry Laboratory -1
Chemical laboratory experiments with an emphasis on engineering applications. Laboratory safety practices, techniques, qualitative and quantitative analysis, chemical change and equilibria. One three-hour laboratory per week. Prerequisite: concurrent enrollment in corresponding 131 lecture.
BPS, DNSM, EL, INSM

196-Chemistry Peer Led Team Learning (PLTL) Leadership Course - 0
Peer Led Team Learning to Solve Introductory Chemical problems. Faculty-supervised Peer Led Team Learning approach to manage groups of students to solve introductory chemical problems. Prerequisites: 121A, 121B with a C or better and consent of instructor.

241a,b-Organic Chemistry – 3 each FSM
Structural types of organic compounds correlated with chemical and physical properties. Bonding, reaction dynamics, reaction types, stereochemistry, functional groups, spectroscopic methods. Three lecture hours per week. Must be taken in sequence. Prerequisites: (a) 121b; (b) 241a; concurrent enrollment in CHEM 245.
BPS, DNSM

245-Organic Chemistry Laboratory - 2
SM
Organic synthesis; techniques for determining physical and chemical properties of organic systems. Two three-hour laboratory periods per week. Prerequisite: 241a, concurrent enrollment in 241b.
BPS, EL

296-Introduction to Chemical Problems - 0-1
SM
Faculty-supervised introduction to elementary chemical problems. Written report at end of semester required. Prerequisite: C or better in CHEM 121b and 125b, prior arrangement with faculty member. May be repeated to a maximum of 3 hours.
PS
300-Professionalism in Science - 1
Responsible conduct of research, science literature, interaction of science and society, communication/presentation skills including written, oral, and visual forms. Enroll immediately after declaring major.

331-Quantitative Analytical Chemistry - 3 FM
Theory and methods of chemical analysis. Three lecture hours per week. Prerequisites: 121b, concurrent enrollment in 335.
DNSM, PS

335-Quantitative Analytical Chemistry Laboratory - 1 FM
Laboratory experience in gravimetric, volumetric, chromatographic, instrumental analytical techniques. One three-hour laboratory per week. Prerequisites: 125b, concurrent enrollment in 331.
EL, PS

345-Advanced Organic Chemistry Laboratory - 2
Identification of organic compounds, advanced synthetic techniques. Two laboratory periods per week. Prerequisite: 241b, 245.
PS

351-Basic Biochemistry 1 - 3 F
Topics will include the structure and function of biologically important macromolecules including: nucleic acids, proteins, carbohydrates, as well as regulation of metabolism, biosynthesis, and degradation of biological molecules. Prerequisites: CHEM 241b with a C or better. Not for CHEM majors.
BL5

352-Basic Biochemistry 2 - 3 S
Continuation of CHEM 351. Topics will include the structure and function of biologically important macromolecules including: carbohydrates and lipids, as well as regulation of metabolism, biosynthesis, and degradation of biological molecules. Prerequisites: CHEM 351 with a C or better. Not for CHEM majors.
BL5

361a,b-Physical Chemistry - 3 each FM/S
Mathematical models of chemical behavior and its underlying causes; experimental foundations of models, thermodynamics, statistical mechanics, kinetics, quantum mechanics, spectroscopy, with applications. Three lecture hours per week. Prerequisites: (a) 121b, PHYS 211b or PHYS 206b, MATH 150 and 152, CHEM 300 (can be concurrent); (b) 361a.
DNSM, PS

365a-2,b-Physical Chemistry Laboratory - 1 FM/S
Investigations of physical chemical phenomena. Emphasis on computer-aided data analysis, rigorous preparation of written reports, introduction to chemical literature. One four-hour laboratory period per week. Prerequisites: (a) concurrent enrollment in CHEM 361a.
EL, PS

396-Introduction to Research - 2 FSM
Investigation of relatively simple research problems in chemistry, directed by faculty member. Students will submit a written report at the end of each semester in which they are enrolled. Prerequisites: C average in chemistry courses, prior arrangement with faculty member.
PS

410-Bioinorganic Chemistry - 3 S
Exploration of the principles of inorganic reactivity through the structure, stability and reactivity of metal ion-biomolecule complexes, as revealed through appropriate physical methods. Prerequisites: CHEM 451a with a C or better.

411-Inorganic Chemistry - 3 F
Modern inorganic chemistry including bonding theory, symmetry and group theory, stereochemistry of complexes, reaction mechanisms, main group chemistry, transition metal chemistry, organometallic chemistry. Three lecture hours per week. Prerequisite: 361a.
DNSM, PS

415-Inorganic Chemistry Laboratory - 2 F
Synthesis of inorganic compounds; vacuum and controlled atmosphere techniques. Two three-hour labs per week. Not for graduate credit. Prerequisite: 411.
EL, PS

419-Special Topics in Inorganic Chemistry - 1 to 3 S
Selected advanced topics. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 361a, consent of instructor.
PS

431-Instrumental Analysis - 3 S
Theory and methods of modern instrumental analytical techniques and instrumentation. Three lecture hours per week. Prerequisites: 331 and 361a or 461a with grade of D or better.
DNSM, PS

432-Forensic Chemistry - 3 FS
Forensic chemical and instrumental analysis methods for trace evidence including drugs of abuse, fibers, explosives, coatings, and polymers. Prerequisites: 331, 335, and 361a (concurrency allowed) with grade of D or better or consent of instructor.

435-Instrumental Analysis Laboratory - 1 S
Laboratory practice in spectroscopic and other instrumental techniques. One four-hour laboratory per week. Prerequisites: concurrent enrollment in 431.
EL, PS

439-Advanced Topics in Analytical Chemistry - 1 to 3
Selected advanced topics. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 331, 335, 361a, consent of instructor.
PS

441-Physical Organic Chemistry - 3
Chemical equilibria, kinetics, structure-reactivity relationships as methods for determining mechanisms of organic reactions. Three lecture hours per week. Prerequisites: 241b, 361a.
DNSM, PS

444-Organic Reactions - 3
Emphasis on monofunctional compounds. Topics not covered in elementary courses. Three lecture hours per week. Prerequisite: 241b.
DNSM, PS

445-Nuclear Magnetic Resonance Operation, Experimental Design, and Analysis - 2 S
Current practices in the operation, experimental design, and analysis of modern NMR spectroscopy. Prerequisites: 241B, 361A, consent of instructor.
PS

446-Organic Spectral Analysis - 1
Use of modern spectral techniques to analyze the structure of organic compounds. Various types of spectroscopy along with computer techniques will be employed. Prerequisites: 241B, 361A, consent of instructor.
PS
449-Special Topics in Organic Chemistry – 1-3
Selected advanced topics. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 241b, 361a, consent of instructor.
PS

451 a.b.c -Biochemistry – 3 each FM/S
Life processes at molecular level. a) Structure and function of biomolecules; b) Intermediary metabolism, transmission of hereditary information; c) Advanced topics including proteomics, genomics, cellular and molecular techniques, bioanalytical, biophysical and bioorganic chemistry. Must be taken in sequence. Prerequisite: a) 241b, concurrent enrollment in 300 with a grade of C or better, b) 451a with a grade of C or better, c) 451b with grade of C or better.

455-Experimental Methods in Biochemistry - 2 S
Current practices in enzyme isolation and assessment. Microcomputer-assisted data treatment, graphics, statistical methods, data acquisition. Six laboratory hours per week. Prerequisite: 241a, concurrent enrollment in 451b.
EL, LS

459-Special Topics in Biochemistry – 1 to 3
Selected advanced topics such as enzymology, metabolism, nucleic acids. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 361a, consent of instructor.
LS

461a-Biophysical Chemistry 1 - 3
Examination of biophysical chemistry principles of thermodynamics and kinetics and the understanding of biological systems using physical chemistry. Prerequisites: PHYS 131b or PHYS 152, and CHEM 451B, and MATH 145 or MATH 150 with grade of C or better.

461b-Biophysical Chemistry 2 - 3
Course will examine the biophysical chemistry principles of quantum mechanics and spectroscopy and the understanding of biological systems using physical chemistry. Prerequisites: CHEM 461a with grade of C or better.

465-Biophysical Chemistry Lab - 2
Investigations of biophysical chemical phenomena. Emphasis on computer aided data analysis, rigorous preparation of written reports, introduction to chemical literature. Six hours of laboratory per week. Prerequisites: Concurrent enrollment or completion of CHEM 461a with a grade of C or better.

469-Special Topics in Physical Chemistry – 1 to 3
Selected advanced topics. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 361b, consent of instructor.
PS

471-Principles of Toxicology - 3 (Cross-listed with ENSC 431) F
Chemical and Biological effects of toxic substances in living organisms at the molecular and cellular level. Topics: routes of entry, mechanism of action, effects, antidotes, etc. Prerequisites: Chem 120A, 120B, BIOL 150 all with grade of D or better.
BLS, DNSM

479-Special Topics in Environmental Chemistry – 1 to 3
Selected advanced topics. May be repeated to a maximum of 6 hours as long as no topic is repeated. Prerequisites: 241b, consent of instructor.
PS

494-Methods of Teaching Chemistry in the Secondary School - 3
Current teaching and resource materials. Ways to teach different chemical topics, problem solving techniques, and societal issues. Preparing for laboratory activities. Safety concerns. Not for graduate credit. Prerequisite: Majors in Chemistry or Science Education only, consent of instructor.
PS

496-Chemical Problems - 2 FSM
Research problems directed by faculty member. May be repeated to a maximum of 4 hours. Students required to submit written report at end of each semester in which they are enrolled. Not for graduate credit. Prerequisite: senior standing, major in chemistry with B average.
PS

499-Senior Assignment - 0 FS
Capstone exam, review of professional ethics and communications, and presentation on research or literature topic. Required for graduation. Prerequisite: CHEM 300 with a grade of C or better, no concurrency allowed, senior standing, major in chemistry with B average.

Chinese (CHIN)

101-Elementary Chinese I - 4 F
Reading, writing, listening, comprehension and speaking in Chinese, within context of Chinese culture. Lab included. BICS, FL, SKFL

102-Elementary Chinese II - 4 S
Continuation of 101. Lab included. Prerequisite: 101 or placement testing. BICS, EGC, FL, IC, SKFL

201-Intermediate Chinese I - 4 F
Further comprehension of spoken language and oral expression, reading modern prose selections, and writing simple compositions. Lab included. Prerequisite: 102, two hours of high school Chinese, or consent of instructor. BICS, DFAH, FL, SKFL

202-4 Intermediate Chinese II - 4 S
Continuation of 201. Lab included. Prerequisite: 201 or placement testing. BICS, DFAH, FL, SKFL

301-Advanced Chinese I - 4 F
In-depth grammar review. Composition and conversation. Lab included. Prerequisite: CHIN 202, minimum grade of D, placement testing or consent of instructor. BICS, DFAH, FL, SKFL

302-Advanced Chinese II - 4 S
In-depth grammar review. Composition and conversation. Lab included. Prerequisite: CHIN 301, minimum grade of D, placement testing or consent of instructor. BICS, DFAH, FL, SKFL

Civil Engineering (CE)

198-Civil Engineering Work Experience I - 0 SM
Supervised work experience with an agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours.

199-Engineering Cooperative Education I - 0 SM
Supervised work experience with an agency, firm, or organization that employs engineers. First work period of five-year academic/work experience program. Prerequisite: consent of engineering co-op advisor.

204-Engineering Graphics and CAD - 3 FSM
Hand- and computer-assisted drawing. Geometric constructions, orthographic projections and sketching, section
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>206</td>
<td>Civil Engineering Surveying</td>
<td>2</td>
<td>FS</td>
<td>Principles of plane surveying. Introduction to use of surveying equipment, collection and reduction of field data. Prerequisite: 204 or consent of instructor.</td>
</tr>
<tr>
<td>240</td>
<td>Statics</td>
<td>3</td>
<td>FSM</td>
<td>Static equilibrium conditions for forces and moment systems; first and second moments of lines and areas. Friction, shear and moment diagrams. Prerequisite: PHYS 141.</td>
</tr>
<tr>
<td>242</td>
<td>Mechanics of Solids</td>
<td>3</td>
<td>FSM</td>
<td>Elastic deformations and stresses in two-dimensional structural elements caused by axial, bending, shear, and torsion loads; stress-strain relationships, Mohr’s Circle. Elementary design concepts. Prerequisite: 240.</td>
</tr>
<tr>
<td>298</td>
<td>Civil Engineering Work Experience II</td>
<td>0</td>
<td>SM</td>
<td>Supervised work experience with an agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: 198.</td>
</tr>
<tr>
<td>299</td>
<td>Engineering Cooperative Education II</td>
<td>0</td>
<td>FSM</td>
<td>Supervised work experience with an agency, firm, or organization that employs engineers. Second work period of five-year academic/work experience program. Prerequisite: consent of engineering co-op advisor.</td>
</tr>
<tr>
<td>315</td>
<td>Fluid Mechanics</td>
<td>3</td>
<td>FS</td>
<td>(Same as ME 315) Basic principles of conservation of mass, momentum and energy in fluid systems; dimensional analysis; open-channel flow; incompressible flow; boundary layers. Prerequisites: upper-division civil engineering standing, 242 with a minimum grade of C or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>330</td>
<td>Engineering Materials</td>
<td>2</td>
<td>FS</td>
<td>Physical and chemical properties of engineering materials (metals, woods, asphalt, and cement concrete). Prerequisite: upper-division civil engineering standing, 242 with a minimum grade D or higher, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>330L</td>
<td>Engineering Materials Laboratory</td>
<td>1</td>
<td>FS</td>
<td>Laboratory determination of material properties. Experiments include: wood bending and compression tests, aggregate tests, asphalt mix design, concrete mix design, and steel tensile strength test. Prerequisites: concurrent enrollment in 330 or consent of instructor consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>343</td>
<td>Structural Engineering II</td>
<td>3</td>
<td>FS</td>
<td>Introduction to indeterminate structures. Virtual work. Approximate methods of analysis. Force method. Introduction to design of reinforced concrete structures. Code requirements. Prerequisite: upper-division civil engineering standing, 330 or concurrent enrollment, 342 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>354</td>
<td>Geotechnical Engineering</td>
<td>3</td>
<td>FS</td>
<td>Introduction to geotechnical engineering. Basic geological principles for engineering design; soil classification, water in soils, effective stress, shear strength and soil compressibility. Prerequisite: upper-division civil engineering standing, 242, 315 with a minimum grade of D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>354L</td>
<td>Geotechnical Engineering Laboratory</td>
<td>1</td>
<td>FS</td>
<td>Laboratory experiments in soil mechanics. Prerequisite: concurrent enrollment in 354. Major/School Restriction.</td>
</tr>
<tr>
<td>376</td>
<td>Transportation</td>
<td>3</td>
<td>S</td>
<td>Planning and design of air, highway, rail, water, and pipeline transportation facilities (geometric and structural). Prerequisite: upper-division civil engineering standing, 206, ME 262 with a minimum grade of D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>380</td>
<td>Environmental Engineering</td>
<td>3</td>
<td>S</td>
<td>Application of principles of chemistry, physics, biology, and mathematics to engineered systems for water purification, wastewater treatment, air pollution control, and solid waste management. Prerequisite: upper-division civil engineering standing or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>398</td>
<td>Civil Engineering Work Experience III</td>
<td>0</td>
<td>FSM</td>
<td>Supervised work experience with an agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: 298.</td>
</tr>
<tr>
<td>399</td>
<td>Engineering Cooperative Education III</td>
<td>0</td>
<td>SM</td>
<td>Supervised work experience with an agency, firm, or organization that employs engineers. Third work period of five-year academic/work experience program. Prerequisites: consent of engineering co-op advisor.</td>
</tr>
<tr>
<td>415L</td>
<td>Applied Fluid Mechanics Laboratory</td>
<td>1</td>
<td>FS</td>
<td>Laboratory experiments involving flow of water in pipes, open channels, and other water resources and environmental engineering systems. Not for graduate credit. Prerequisites: upper-division civil engineering standing, 315 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>416</td>
<td>Engineering Hydrology</td>
<td>3</td>
<td>F</td>
<td>Hydrological processes and their relationship to design of structures for control and management of water resources, rainfall runoff relationships, probability and frequency analysis, surface water hydrology. Prerequisites: upper-division civil engineering standing, 315, 354 or concurrent enrollment, STAT 380 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>435</td>
<td>Pavement Design</td>
<td>3</td>
<td>F</td>
<td>Analysis and design for highways and airports; factors affecting pavement performance and code requirements. Prerequisites: upper-division civil engineering standing, 330, 343, 354, 399 or concurrent enrollment with a minimum grade of D or higher or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>441</td>
<td>Design of Timber Structures</td>
<td>3</td>
<td>F</td>
<td>Design and analysis of timber structures and timber design code. Prerequisites: upper-division civil engineering standing, 343 or concurrent enrollment with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>443</td>
<td>Design of Masonry Structures</td>
<td>3</td>
<td>F</td>
<td>Design and analysis of masonry structures and masonry design codes. Prerequisites: upper-division civil engineering standing, 343 with a minimum grade of D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>445</td>
<td>Advanced Structural Analysis</td>
<td>3</td>
<td>F</td>
<td>Analysis of indeterminate two- and three-dimensional trusses and frames, with emphasis on the force and displacement (including matrix analysis) methods, and computer techniques. Prerequisites: upper-division civil engineering standing, 343 with a minimum grade D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.</td>
</tr>
<tr>
<td>446</td>
<td>Advanced Concrete Design</td>
<td>3</td>
<td>S</td>
<td>Advanced topics in reinforced concrete design, design of pre-stressed concrete beams, code design requirements.</td>
</tr>
</tbody>
</table>
Course Descriptions

Civil Engineering (CE)

449-Advanced Steel Design - 3
Prerequisites: upper-division civil engineering standing, 343, 445 with a minimum grade of D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.

455-Foundation Design - 3
Design of foundations and retaining walls. Formulation of design problem statements and specifications. Estimates of soil engineering parameters from field tests. Estimates of bearing capacity and settlements. Prerequisites: upper-division civil engineering standing, 345 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

457-Soil Mechanics in Engineering - 3
Mineralogy and soil behavior; Advanced Seepage and Consolidation Analyses; Engineering Applications of Soil Mechanics; Implementation of Numerical Modeling in Soil Mechanics. Prerequisites: upper-division civil engineering standing, 354 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

460-Municipal Infrastructure Design - 3
Municipal infrastructure analysis and design; water distribution networks; wastewater collection; street systems; engineering processes of municipal designs. Prerequisites: upper-division civil engineering standing, 315, 376 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

473-Travel Demand Forecasting - 3
Transportation engineering principles for estimating the impact of new development on specific facilities and on a region using travel demand forecasting tools. Prerequisite: CE 376 with a minimum grade of D or higher. Major/School Restriction.

474-Computer Simulation in Traffic Engineering - 3
Highway capacity software (HCS), signal timing software (SYNCHRO), and micro-simulation software (TSIS). Prerequisite: 376 with a minimum grade of D or higher. Major/ School Restriction.

475-Transportation Planning - 3
Covers the basis for transportation planning process; modeling transportation demand and supply; project evaluation for decision making, and transportation sustainability. Prerequisite: 376 with a minimum grade of D or higher or consent of instructor. Major/School Restriction.

476-Traffic Studies - 3
Acquisition, evaluation, statistical analysis and reporting of traffic engineering data used to design, evaluate and operate transportation systems. Prerequisite: CE 376 with a minimum grade of D or higher or consent of instructor. Major/School Restriction.

480-Environmental Analysis - 3
Analytical methods for examining water and wastewater. Sources of parameters, laboratory methods and limitations, data analysis, correlation of parameters with environmental effects. Lectures and laboratory. Prerequisites: upper-division civil engineering standing, 380 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

486-Wastewater Treatment Design - 3
Design of wastewater treatment systems, including preliminary, primary and secondary treatment processes and biosolids treatment and disposal. Prerequisites: upper-division civil engineering standing, 380 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

487-Water Treatment Design - 3
Design of potable water treatment processes with emphasis on chemical and physical unit operations. Prerequisites: upper-division civil engineering standing, CE 380 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

488-Hazardous Waste Management - 3
Major aspects of managing hazardous waste, including regulation, pollution prevention, treatment, disposal, spill clean-up, and site remediation. Prerequisite: upper-division civil engineering standing, CE 380 with a minimum grade of D or higher, or consent of instructor. Major/School Restriction.

491-Civil Engineering Project – 1 to 4
FSM Individual investigation of a topic in Civil Engineering to be agreed upon with the instructor. May be repeated for a maximum of 6 hours provided no topic is repeated. Prerequisites: upper-division civil engineering standing and consent of the instructor.

492-Topics in Civil Engineering – 1 to 5
Selected topics of special interest. May be repeated to a maximum of 6 hours provided no topic is repeated. Prerequisite: upper-division civil engineering standing or graduate standing. Major/School Restriction.

493-Engineering Design - 3
Team/individual design projects requiring application of engineering principles to formulation of design problem statements and specifications; development of alternative solutions for open-ended design problems. Not for graduate credit. Prerequisites: upper-division civil engineering standing, CE 343, 354, 376, 380, 460 with minimum grades of D or higher or concurrent enrollment, or consent of instructor. Major/School Restriction.

Computer Management and Information Systems (CMIS)

108-Computer Concepts and Applications – 3
FMS Computer technology's impact on individuals and our world. Finding and accessing worldwide sources of information; present ideas orally, graphically, and in writing. BICS, SKCP

130-Introduction to Programming Logic - 3
FS This course introduces programming concepts used in developing business applications that require the following elements: Input, Output, Arithmetic Expressions, Loops, and Arrays. Prerequisites: CMIS 108 or CS 108 with grade of C or better.

222-Microsoft IDE Programming for Business - 3
S Programming with Visual Studio, Microsoft's integrated development environment (IDE), to create business applications that run on the .NET framework and mobile operating systems. Prerequisite: 130 with grade of C or better.

234-Java Programming for Business - 3
Application of business problem solving techniques, program design and development, and programming logic to create java programs. Prerequisite: 130 with grade of C or better.

260-COBOL Programming - 3
Business-oriented computer programming using listings, computations, comparisons, tables/arrays, files. Students apply logical methods to the design of programs. Prerequisite: 130 with grade of C or better.

I AI CS913

270-Structured Systems Analysis - 3
FS Structured tools and techniques as used in business systems analysis and design. Prerequisite: 108 or CS 108 or CS 145 with a grade of D or better.
300-Web-Based Application Design - 3
Analysis, design, and implementation of Internet web-site home pages using current tools of hyperertext markup languages, integrated software packages, and specialized web creation software. Prerequisite: 270, CMIS major or specialization.

310-Information Technology Hardware and Systems Software - 3
Principles and application of computer hardware and software from theoretical underpinnings to installation and configuration of systems. Hands-on and simulated exercises will be completed to emphasize a real-world setting. Prerequisite: 270, CMIS major or specialization.

342-Information Systems for Business - 3
Information system principles applied to business. Analysis of how computer-based information systems support operational, tactical, and planning decisions. Prerequisite: ACCT 210 or 301 with a min. grade of C; CMIS or CS 108; MGMT 331; accounting, CMIS, economics or finance, business administration majors and business minors.

430-Advanced Java Programming - 3
Development of applications, applets, and advanced GUI, including advanced object-oriented programming in JAVA, multithreading, files, multimedia, database use and networking concepts used for applications. Prerequisite: 234 with grade of C or better, CMIS major or specialization.

435-Mobile Application Development - 3
Develop apps for mobile devices, including smart phones and tablets, on multiple platforms. Prerequisite: 232 and 234 with grade of C or better, Business majors only.

450-Database Design - 3
Basic concepts/terminology of relational models with emphasis on current technology and business applications including SQL. Prerequisites: 130 and 270 with grade of C or better, CMIS major or specialization.

455-Advanced Database Concepts and Business Analytics - 3
Advanced programming for querying and reporting from structured databases, working with unstructured data sources, and introduction to business analytics and business intelligence. Prerequisites: 450 with a grade of C or better, Business majors only.

460-ASP.NET Programming - 3
Advanced event-driven programming, object-oriented programming techniques for on-line Web applications including Web database programming (ADO.NET), security, Web services and application deployment. Prerequisite: 232 with grade of C or better, CMIS major or specialization.

462-UNIX and Server Systems - 3
UNIX and Windows server operating systems to include scripting language plus server software installation and configuration. Prerequisite: 310, CMIS major or specialization.

468-Business Telecommunications - 3
Concepts and terminology dealing with data communication and distributed systems with emphasis on business applications. May be taken for graduate credit. Prerequisite: 310, CMIS major or specialization.

470-Structured Systems Design - 3
Structured systems design methodologies, including process-oriented, data structure-oriented, and information-oriented techniques. Not for graduate credit. Prerequisites: CMIS 310, 450, CMIS major or specialization.

472-End User Systems Support - 3
Application of knowledge, skills, and abilities necessary in the user support industry to include software and hardware support related to small computer environments as a standalone or networked setting. Prerequisites: 342, CMIS major or specialization.

488-Information Systems Internship - 3 to 6
Application of information systems knowledge in a structured work environment with a written report of the work experience. May be repeated to a maximum of 6 hours. Not for graduate credit. Prerequisites: senior standing and consent of instructor, CMIS major or specialization.

490-Independent Study in Information Systems - 3 to 6
Investigation of topical CMIS area resulting in deliverable unit. May be repeated to a maximum of 6 hours. Prerequisites: consent of chairperson and program director, CMIS major or specialization.

495-Seminar: Information Systems - 3 to 6
Current issues related to business aspects of dealing with information systems. May be repeated to a maximum of 6 hours if topics differ.

Computer Science (CS)

Computer skills course which assumes no prior experience with computers. Introduces computer concepts and word processing, spreadsheets and database software; examines societal issues. Graduation credit may be earned for CS 108 or CMIS 108, but not for both. Prerequisite: two years of college preparatory mathematics in high school.

BICS, SKCP

111-Concepts of Computer Science - 3
Broad view of computer science: computer hardware, operating systems, software design and development, algorithms, networks, and applications.

BICS, INSM

140-Introduction to Computing I - 4
Programming course that assumes basic computer literacy. Introduces a high-level programming language and basic problem solving. Three lecture hours and two laboratory hours per week. Prerequisites: MATH 120 with a minimum grade of C or three years of college preparatory mathematics in high school.

SKCP

145-Introduction to Computing For Engineers - 3
Introduces C++ programming and basic problem solving. Focuses on computer applications in engineering, science, and numeric methods. Prerequisites: MATH 150 with a minimum grade of C and basic computer literacy.

SKCP

150-Introduction to Computing II - 3
Algorithmic problem solving with a modern programming language. Language syntax; basic design methods; algorithms; abstraction. Prerequisite: 140 with a minimum grade of C.

SKCP

198-Computer Science Work Experience I - 0
Supervised work experience with agency employing computer scientists or information specialists. For students with part time cooperative jobs. Limited to students enrolled in more than six credit hours. Prerequisite: sophomore standing in computer science.

SKCP

199-Computer Science Cooperative Education Experience I - 0
Supervised work experience with agency employing computer scientists or information specialists. First work period of 5-year academic/work experience program. Prerequisite: sophomore standing in computer science.

SKCP

234-Database and Web System Development - 3
An introduction to multi-tier software systems and database programming, and their application to web-based information processing systems. May be repeated to a maximum of 6 hours if topics differ.

SKCP

490-Independent Study in Computer Science - 3 to 6
Investigation of topical CS area resulting in deliverable unit. May be repeated to a maximum of 6 hours. Prerequisites: consent of chairperson and program director, CMIS major or specialization.
### Course Descriptions

**390-Topics in Computer Science - 3**  
Selected topics in computer science. May be repeated to a maximum of 6 hours for different topics. Prerequisite: consent of instructor.

**398-Computer Science Work Experience III - 0**  
FSM  
Supervised work experience with agency employing computer scientists or information specialists. For students with part time cooperative jobs. Limited to students enrolled in more than six credit hours. Prerequisite: junior or senior standing in computer science.

**399-Computer Science Cooperative Education Experience III - 0**  
FSM  
Supervised work experience with agency employing computer scientists or information specialists. Third work period of 5-year academic/work experience program. Prerequisite: junior or senior standing in computer science.

**423-Compiler Construction - 3**  
Translation of programming languages. Emphasis on techniques used in construction of compilers, including lexical analysis, syntactical analysis, type checking, code generation. Prerequisite: 330 with a minimum grade of C.

**425-Senior Project: Software Design - 3**  
FS  
First part of a two-semester sequence in which teams complete the design and planning stages of a software development project. Selected topics in software development, group dynamics, and project management. Not for graduate credit. Prerequisites: CS 314, 321, 326, 340, AND 360; all with a minimum grade of C.

**434-Database Management Systems - 3**  
FS  
Database management system concepts, models, languages. Entity relationship, relational, and object-oriented data models; relational database design and implementation including SQL; object databases. Prerequisites: 234 and 240; both with a minimum grade of C.

**438-Artificial Intelligence – 3**  
aS  
Principles and programming techniques of artificial intelligence. Intelligent agents, heuristic programming, knowledge representation, expert systems, machine learning. Prerequisite: 340 with a minimum grade of C.

**447-Networks and Data Communications – 3**  
FS  
Concepts of networks and data communications. Networking protocols and architecture; data encoding and transmission; network management; and distributed applications. Prerequisites: 314 and 340; both with a minimum grade of C.

**454-Theory of Computation – 3**  
Theoretical foundations of computer science, including theory of automata; pushdown automata; Turing machines; formal languages. Prerequisite: CS 330 and MATH 224 with a minimum grade of C; or graduate standing.

**456-Advanced Algorithms – 3**  
FS  
Advanced algorithms and data structures; basic complexity theory and approximation algorithms for NP-hard problems. Prerequisite: 340 with a minimum grade of C.

**482-Computer Graphics – 3**  
F  
Introduction to 2D and 3D graphics, graphics hardware, scan conversion, anti-aliasing, hidden components, transformations, projections, ray tracing, curve and surface modeling, animation. Prerequisites: 240, 286, and MATH 152; all with a minimum grade of C.

**490-Topics in Computer Science – 3**  
FS  
Selected topics in computer science. May be repeated to a maximum of 6 hours for different topics. Prerequisite: consent of instructor.

**495-Independent Study – 3**  
FSM  
Reading and research in specific areas of computer science. May be repeated to a maximum of 6 hours. Prerequisite: consent of instructor and department chair.
Construction (CNST)

120-Introduction to Construction – 2
Survey of construction industry; typical employment opportunities; history; current development. Introduction to graphics and problem solving techniques.

199-Construction Cooperative Education I – 0
Supervised work experience with agency, firm, or organization which employs constructors. First work period of an academic / work experience program. Prerequisites: sophomore standing in construction and consent of engineering co-op advisor.

210-Building Construction Materials and Methods – 3
Introduction to construction materials properties, construction methods, and equipment for construction of buildings, bridges and other structures. Prerequisite: 120 or concurrent enrollment, MATH 150 or concurrent enrollment, and one of CHEM 120a/121a or 131 or concurrent enrollment.

211-Civil Construction Materials and Methods – 3
Introduction to the materials and methods employed on civil construction projects, including equipment selection and planning, managing movement of bulk materials, dewatering, aggregate production, explosives in construction, ground improvement techniques, paving, and crane planning. Prerequisite: 120 or concurrent enrollment, MATH 150 or concurrent enrollment, and one of CHEM 120a/121a or 131 or concurrent enrollment.

241-4 Statics and Mechanics of Solids – 4
Static equilibrium conditions for external and internal force and moment systems. Shear and bending moment diagrams. Elastic deformation and stresses in structural elements. Mohr’s circle. Prerequisite: Undergraduate level PHYS 141 or 151 with a grade of C or better and MATH 152 with a minimum grade of D.

264-Construction Surveying – 4
Surveying applications for construction. Prerequisites: 120, MATH 150 or concurrent enrollment.

299-Construction Cooperative Education II – 0
Supervised work experience with agency, firm, or organization which employs constructors. Second work period of an academic / work experience program. Prerequisites: junior standing in construction and consent of engineering co-op advisor.

301-Solids – 2
Physical properties and behavior of soils as a construction material; construction methods and equipment in earthmoving; erosion and sedimentation control, regulatory requirements. Prerequisites: 211, 241 or CE 242.

301L-Solids Laboratory – 1
Laboratory and field experiments in soil classification and determination of engineering index properties. Interpretation of test results and geotechnical reports. Prerequisite: Concurrent enrollment in 301 or consent of instructor.

310-Legal Aspects of Land Surveying – 3
History of U.S. Public Land Survey System and government surveys of Illinois. Surveying definitions, rules of evidence and procedures. Laws and administrative rules governing surveying. Prerequisites: 264 or consent of instructor.

321-Electrical Systems – 3
Basic electrical theory; electrical systems and distribution for facilities and during construction, safety, wiring, and energy consumption. Prerequisites: PHYS 141 or 151.

332-Mechanical Systems/HVAC – 3
Mechanical heating, air conditioning, ventilation systems. Requirements during construction; construction installation; for completed facility. Prerequisites: 210 with a grade of C or better and PHYS 211A or PHYS 141 or PHYS 151 with a grade of D or better.

341-Plans and Specifications - 3
Reading and interpreting plans and specifications. Standard construction specifications and standard procedures. Take-off methods for estimating. Prerequisites: 210 with grade of C or better, 264.

351-Analysis, Design and Construction of Structural Systems – 3
Load paths in typical structural configurations, approximate stress analysis of structures, concrete formwork design, analysis, design and construction of wood, concrete, steel, masonry and composite structures. Prerequisites: 210, 241 or CE 242.

364-Boundary Surveying – 3
Evidence and procedures in determining property boundaries and land lines. Laws relating to land surveying in Illinois and Missouri. Role of land surveyor in boundary disputes and locations. Prerequisite: 310 or consent of instructor.

399-Construction Cooperative Education III – 0
Supervised work experience with agency, firm, or organization which employs constructors. Third work period of an academic/ work experience program. Prerequisite: senior standing in construction and consent of engineering co-op advisor.

403-Planning and Scheduling – 3
Planning and scheduling construction projects including resource and manpower allocation. CPM and PERT methods; progress reports and records. Prerequisites: (applies to undergraduates only) 341 and 353.

411-Construction Contracts - 3
Legal aspects of contracts and bidding; types of construction contracts and documents including bonds; OSHA, local, state, federal regulations. Not for graduate credit. Prerequisite: 341.

415-Land Development - 3
A study of the land development process and the roles of local government, design consultants, developers, and contractors in residential development. Subdivision design and construction. Not for graduate credit. Prerequisite: 341 or consent of instructor.

422-Spanish for Construction – 3
Job-specific Spanish for non-Spanish speaking construction personnel. Understanding cultural differences, role of religion in work life and other issues that affect the Hispanic construction workforce. Prerequisite: Senior standing or consent of instructor EGC, IC, II

425-Heavy Civil Construction - 3
Methods and procedures for estimating, planning and constructing transportation and civil engineering infrastructure projects. Not for graduate credit. Prerequisite: 211 with a grade of C or better.

432-Design-Build Process - 3
Introduction to design-build project delivery system. Emphasis on design of buildings, conceptual estimating, scheduling, negotiated contracts, and professional presentations. Prerequisite: CNST 341 or consent of instructor.
442-Building Information Models - 3  F
Development of 3-D building models for estimating, scheduling and construction planning. Use of technology for recording 3-D information to monitor construction. Applications for implementing virtual reality in construction. Prerequisite: CNST 341, senior standing or consent of instructor.

451-Estimating and Bidding - 3  FS
Methods and procedures for estimating and bidding construction projects. Use of take-off quantities, productivity, and material costs. Not for graduate credit. Prerequisites: (applies to undergraduates only) 341, 353 and senior standing or consent of instructor.

451L-Estimating and Bidding Laboratory - 1  FS
Computer applications for quantity take-off, cost estimation and bid preparation. Prerequisite: concurrent enrollment in 451 or consent of instructor.

452-Construction Management and Senior Assignment - 4  FS
Professional aspects of construction management. Management techniques, quality control, safety, time and cost management. Not for graduate credit. Prerequisites: 403, 451 or consent of instructor.

461-Materials Sampling and Testing - 3
Procedures and methods for developing and evaluating sampling and testing programs for construction. Individual projects required. Prerequisite: STAT 244; senior or graduate standing, or consent of instructor.

463-Concrete Properties - 3
Concrete construction techniques are analyzed. Emphasis will be on how fundamental properties are used to make project decisions. Individual projects required. Prerequisite: senior or graduate standing.

464-Project Controls - 3
Discussion of methodology and techniques used typically by the construction industry in the control of project schedule, cost, contract administration and construction quality. Prerequisites: 341, senior standing or consent of instructor.

470-Construction Internship - 3  FSM
Acquisition of hands-on experience in the management of a typical construction project. The jobite becomes the classroom. Not for graduate credit. Prerequisite: 341, completion or concurrent enrollment in the OSHA 10-hour safety course, Senior standing and consent of instructor.

482-Advanced Survey Systems - 4  F
Celestial observations and GPS. Surveying instrumentation, operation, error sources, and calibration. Prerequisites: 310 or consent of instructor.

484-Survey Computations and Applications - 4  S
Application of celestial observations and GPS to boundary, topographic, route surveying, and subdivision design. Analysis and adjustment of errors. Prerequisites: 482 or consent of instructor.

495-Topics In Construction – 2 to 9  S
Selected topics of special interest in construction. Topics selected jointly by student and faculty. May be repeated to a maximum of 9 hours provided no topic is repeated. Not for graduate credit. Prerequisites: 341, senior standing or consent of instructor.

Criminal Justice (CJ)

111-Introduction to Criminal Justice – 3  FSM
Introduction to the system of criminal justice including police, courts and corrections. BSS, ISS [IAI No. CRJ 901]

202-Introduction to Corrections – 3  FS
Overview of corrections in the U.S.; includes philosophy of punishment, prisons, community-based sanctions, death penalty, ethical issues. Prerequisite: 111 with a C or better and sophomore standing. SS [IAI No. CRJ 911]

205-Juvenile Justice – 3  FS
Arrest, pre-trial detention, court procedures, and punishment involving juveniles; includes waivers to adult court, privacy issues, community-based corrections, recidivism. Prerequisite: sophomore standing. SS [IAI No. CRJ 914]

206-Principles of Criminal Law – 3  FS
Introduction to criminal law. The course covers the elements of crimes, criminal defenses and the nature of criminal responsibility. Prerequisite: 111 with a C or better and sophomore standing. SS

207-Criminal Procedure – 3  F
Supreme Court criminal procedure cases analyzed. Application of law to stop and frisk, search, seizure, warrants, cyberspace, interrogations, etc., highlighted at federal and Illinois level. Prerequisites: 111, SS

208-Introduction to Law Enforcement – 3  FS
History, organization and operations of police; includes use of discretion, arrest powers, detective work, interagency cooperation, use of force. Prerequisite: 111 with a C or better. SS

273-Crime, Theory, and Practice – 3
An overview of crime and the theories in Criminal Justice that form the foundation for policies and programs in the criminal justice systems. Prerequisite: CJ 111 with a grade of C or better. BSS

302-Research Methods in Criminal Justice – 3  FSM
Major research methods in social sciences as applied to study of crime and justice; includes surveys, observational methods, experimentation, comparative and historical research. SS

303-Data Analysis in Criminal Justice – 3  FSM
Key statistical concepts, their application and interpretation. Using a computer to calculate and graphically display statistics. Creating and manipulating data sets. Prerequisite: CJ 302 with a grade of C or better. SS

308-Criminal Investigations – 3  FSM
Criminal Investigations are an essential component of American criminal justice. This course focuses on investigative logic and how evidence is developed and analyzed to ensure the successful prosecution of a criminal suspect. Prerequisite: CJ 206. BSS, DSS

311-Perspectives on Terrorism – 3
A survey of international and domestic terrorism, the organizations, philosophies, and responses. Investigates the social, psychological, cultural, historical, political, religious, and economic dynamics of terrorism. SS

348-Law and Society – 3 (same as PHIL 348 and POLS 392)FS
Examines the nexus of culture, dispute management and law. We will explore law as a social construct, focusing on laws’ everyday impact on citizen’s lives.
357 - Organized Crime – 3
History, development, and current practices of organized crime in the United States and other countries.  
SS

364 - Rehabilitation and Treatment Modalities – 3
Examines treatment and rehabilitation strategies, including theoretical foundations, counseling techniques, and community-based approaches.  
SS

365 - Ethics in Criminal Justice – 3
Explores ethical responsibilities of criminal justice personnel and the moral dilemmas faced by police, court, and corrections officials in processing suspects, defendants, and offenders.  
SS

366 - Race and Class in Criminal Justice – 3  
FSM
Criminal justice from the vantage point of race and class relations, racial/cultural interaction, enforcement patterns, use of discretion, case outcomes, and punishment.  
SS

367 - Gender and Criminal Justice – 3
Issues of gender in criminal justice, particularly with regard to offending, victimization, processing, incarcerating, rehabilitating and among professionals in the field.  
SS

368 - Serial Rape and Murder – 3
Prevailing myths surrounding sexual assault and examination of the various typologies explaining rape and murder. Prerequisite: CJ 273 with a grade of C or better.  
SS

390 - Special Topics in Criminal Justice – 3  
F
Topics not included in regular course offerings. May be repeated once to a maximum of 6 hours provided no topic is repeated.  
SS

396 - Readings in Criminal Justice – 1 to 6  
FSM
Supervised reading or projects in selected areas of criminal justice. May be repeated for up to 6 hours. Prerequisite: Consent of Instructor; CJ majors/minors only.  
SS

398 - Pre-Law Program Internship Independent Study – 3
This provides experiential learning internships for pre-law students to gain first hand knowledge of legal settings. It is an online independent study by instructor approval.  
SS

401 - Community Corrections – 3
History and current practice, success rates of community-based alternatives to prison; includes boot camps, probation, electronic monitoring, and new "creative" sentencing. Prerequisite: junior or senior standing.  
SS

408 - Critical Issues in Law Enforcement – 3
Examination and analysis of issues in policing, including training and socialization, management and organization, deviance, minority recruitment, community-based efforts and use of force. Prerequisites: junior/senior standing.  
SS

410 - Judicial Process – 3
Federal and Illinois criminal courts examined. Application of law, criminal and appellate processes to case scenarios emphasized.  
SS

420 - United States Drug Policy – 3
Examines historical and contemporary drug use and policy efforts, including secondary problems affiliated with drugs, the War on Drugs and its impact, nationally and internationally.  
SS

454 - Capital Punishment – 3
Examines the history, practice, and legal status of the death penalty in the United States and other countries.  
SS

464 - Mental Health and the Criminal System – 3
Examines treatment of individuals with mental illness by police, courts and corrections. Insanity defense, competency, commitment, diversion, and CIT discussed. Graduate credit available.  
SS

465 - Theories of the Just Society – 3
Examines various constructions of the just society and the functions of government. Students consider the role of law and its relationship to justice for citizens. Prerequisite: 273 with a grade of C or better, Junior/Senior Standing.  
SS

488 - Supervised Internship/Senior Assignment – 3  
FSM
140 hours of supervised work in a criminal justice organization culminating in a written and oral presentation to CJ faculty relating the experience to course work. Prerequisite: 111, 202, 206, 208, 273, 302, and 366 with a grade of C or better, CJ majors only with senior standing.  

Culture, Ideas and Values (CIV)

115 - Freshman Seminar: Culture, Ideas and Values – 6
A multi-disciplinary core course for freshmen, integrating introductory and skills course contents through lecture, discussion groups, group projects and individual writing assignments. Each of the courses within the freshman seminar group chooses a specific topic as an entryway to a range of cultures, including the culture of the present day. Students will learn to read the “texts” of these cultures (where a text can be a poem, a ritual, an account of a battle, a love song, a technology …) for an understanding of underlying ideas and values.  

SKILLS/INTRO

Curriculum and Instruction (CI)

301 - Understanding the Pre-Primary Child - 3
Characteristics of infants, toddlers, and young children (birth through age 6); study and observation in formal and informal settings.  

307 - Middle Level Philosophy, Organization and Curriculum - 3
Explores middle school topics including the philosophy, curriculum and structure of middle schools, as well as instructional methods for the middle level learner. Prerequisite(s): admission to elementary education program, EPFR 315 and EPFR 320 (concurrent enrollment in one is permissible).  

311 - Elementary/Middle Level Field One Experience - 1
Current educational theory and practice as they relate to field experience: Two half-day clinical placements in elementary/middle level classrooms with introductory level experiences and responsibilities. Prerequisite: admission to elementary education program.  

312 - Elementary/Middle Level Field Two Experience - 1
Current educational theory and practice as they relate to field experience: Two half-day clinical placements in elementary/middle level classrooms with continued introductory level experiences and responsibilities. Prerequisite: 311.  

314 - Elementary/Middle Level Methods – 1 to 3
Current educational theory and practice; processes and underpinnings of teaching and learning in elementary education. Prerequisite: consent of instructor.  

315a - Methods of Teaching in the Secondary School – 2
Teaching skills for secondary students focusing on effective
teaching research and its application to the secondary classroom. Prerequisite: consent of advisor.

315b-Methods of Teaching in the Secondary School – 2 FS
Teaching skills for secondary students focusing on participant observation skills, model teaching, discipline techniques, content teaching. Prerequisite: 315a. Students should not take any other general education or professional education courses during this semester except for CI315b, CI352, and senior project.

316-Early Childhood Methods in the Classrooms – 1 FS
— Integration of methods and classroom processes in classroom settings. Includes theory, research, and practice related to professional teaching and learning of young children. Prerequisite: admission to EC partnership program.

317-Pre-Kindergarten Methods – 3 S
Instructional strategies appropriate for preschool children, with emphasis on interrelatedness of sensorimotor, conceptual, and social development. Prerequisite: 301.

323-Literacy Development in the Early Years - 3 S
Literacy development birth through kindergarten with emphasis on designing appropriate reading, writing, listening, and speaking experiences for young children. Also includes suitable children's literature. Field placement required. Taken concurrently with 317. Prerequisite: 301.

337-Literacy at Elementary and Middle Levels – 1 to 3 Application of theory and pedagogy of elementary and middle level literacy and content areas methods; standards, strategies, instructional materials, assessments and technology. Prerequisites: admission to elementary education program or consent of program director.

338-Assessment and Instruction of Literacy at Elementary and Middle Levels – 1 to 3 Administration of literacy assessments, data analysis to adapt instruction, material selection, standards and strategies implementation to meet the literacy needs of elementary/ middle level learners. Prerequisites: admission to the elementary education program or consent of program director.

343-Social Studies at Elementary and Middle Levels – 3 Application of theory and pedagogy of elementary and middle level social studies methods; standards, strategies, instructional materials, assessments, and technology. Prerequisites: admission to elementary or early childhood education program or consent of program director.

352o-t-Student Teaching Secondary – a, o: 5 to 12; b,d,f,g,h,i,j,l,n,t: 9-12 Practice teaching in the secondary schools. a) art, b) biology, d) chemistry, f) English, g) foreign language, h) earth science, i) geography, j) political science, k) health, l) history, n) math, o) music, q) physics, t) theater. Prerequisite: registration by secondary education program advisor. Secondary Ed (9-12) and World Languages students should not take any other general education or professional education courses during this semester except for CI315b, CI352, and senior project. This may not apply to Art and Music education students.

388-Curriculum and Instruction Co-op - 0 Education-related work in a school, educational center, or other business or agency under the supervision of a field supervisor, that may be paid experience and/or one that spans multiple terms. Prerequisites: Approval from Career Development Services.

398-Curriculum and Instruction Internship – 0 Education-related work in a school, educational center, or other business or agency under the supervision of a field supervisor consisting of an unpaid experience that usually lasts one semester. Prerequisites: Approval from Career Development Services.
434-Teaching Science and Social Studies in Early Childhood – 3 FS
Instructional strategies for teaching science and social studies in Pre-K through grade 3. Examination of functions, practices, and problematic issues of science and social studies education. Prerequisite: CIED 317.

440-Adolescent Literacy – 3 FSM
Instructional theories, practices, and strategies for literacy across content areas in middle and high school; enhancing interest and motivation; and assessment of students' literacy performance.

442-Science at Elementary and Middle Levels – 3
Application of theory and pedagogy of elementary and middle level science methods: standards, strategies, instructional materials, assessments and technology. Not for graduate credit. Prerequisite: admission to the elementary education program or consent of program director.

445-Language Arts at Elementary and Middle Levels – 3
Application of theory and pedagogy of elementary and middle level language arts methods: standards, strategies, instructional materials, assessments and technology. Not for graduate credit. Prerequisite: admission to the elementary education program or consent of program director.

447-Reading for Speech Language Pathologists – 3
Theories and models of reading as related to instruction; connections between reading and speech difficulties; ways to help children overcome difficulties.

450-Early Childhood Student Teaching – 3 to 12 FS
Practice of teaching at early childhood level. Not for graduate credit. Prerequisite: registration by early childhood program advisor.

451a-Elementary Student Teaching – 3 to 10 FS
Application of theory to practice of teaching. Not for graduate credit. Prerequisite: registration by early childhood program advisor.

451b-Elementary Student Teaching: Art – 3 to 6 S

451c-Elementary Student Teaching: Music – 3 to 6 S
Application of theory to practice of teaching. Not for graduate credit. Co-requisite: 352o.

452-Curriculum Integration and Change – 2 S
A synthesis and application of coursework and change theory to school settings. Study of the relationship between career development and school reform. Not for graduate credit. Prerequisite: registration by School of Education Student Services advisor.

471-Teaching in the Multicultural Classroom – 3
Concepts and strategies for developing positive attitudes; increasing knowledge and selecting appropriate materials for teaching children from culturally diverse backgrounds.

490a-n-Independent Projects: Independent Readings and Projects in Curriculum and Instruction – 1 to 6 (a) Curriculum; (b) Language Arts; (c) Science; (d) Reading; (e) Social Studies; (f) Mathematics; (g) Early Childhood Education; (h) Elementary Education; (i) Middle School Education; (j) Secondary School Education; (k) Community College; (l) Adult Education; (m) Environmental Education; (n) Organization and Supervision. Maximum of 6 total credit hours permitted. Prerequisite: consent of instructor.

495-Selected Topics – 1 to 6 M
Varied content; offered as need exists and as faculty interest and time permit. Maximum of 6 total credit hours permitted. Prerequisite: consent of instructor.
315-Developmental Issues in Middle Level Classroom – 3 S
Designed to lead to understanding of physical, cognitive, social and emotional characteristics of young adolescents and the implications of these characteristics for responsive educational practice. Prerequisites: CIED 301, CIED 310, and CIED 311 with a grade of C or better.

316-Active Engagement with Infants and Toddlers – 3
Theory, research, and practice are integrated throughout the course to highlight all aspects of brain development, learning, emotional development, and early relationships.

317-Health, Safety, Nutrition and Physical Play – 3
This course will introduce students to traditional and contemporary issues related to children’s health, safety, nutrition, and physical activity from infancy through school age.

318-Collaborative Professional, Family, Community Relationships – 3
Develop understanding of role of the community in education: learn the skills needed to develop and maintain collaborative relationships with colleagues, families, community agencies.

319a-Inquiry, Play, and Investigation and Education in the Early Years – 3
Learning to create supportive, nurturing environments that allow young children to thrive through active play and investigation through planning, implementing, and evaluation. Corequisite: CIED 319b. Early Childhood Education majors only.

319b-Inquiry, Play, and Investigation and Education in the Early Years- Lab– 3
Laboratory experiences will engage teacher candidates in discovery and exploration so they experience the deep investigations across all content areas. Corequisite: CIED 319a. Early childhood Education majors only.

320-Supporting Language & Literacy Development: Birth-Age 5 – 3
Focuses on planning and implementing appropriate literacy experiences for English speaking and Dual Language Learning children and their families.

321-Primary Literacy Assessment and Instruction – 3
Application of literacy theory to assess, plan, and implement a broad range of instruction literacy practices that are appropriate for diverse learners at the primary level. Prerequisites: CIED 302 with a satisfactory grade, CIED 312 with a grade of C or better.

322-Literacy Composition and Comprehension – 3
Making informed decisions about appropriate practice for upper and middle level literacy including comprehension and composition assessment, teaching methods, strategies, and instructional materials. Prerequisite: CIED 312 with a grade of C or better.

323-Adolescent Content Literacy – 3
Application of theory to appropriate practice for middle and secondary literacy in English, social studies, science, and mathematics including assessments, teaching methods, strategies, and materials.

330-Early Childhood Field Experience I – 1
Students will spend two mornings a week in an infant or toddler classroom observing and helping the teacher with routines and instruction.

331-Early Childhood Field Experience II – 1
Students will spend two mornings a week in a Pre-Kindergarten classroom observing and helping the teacher with routines and instruction.

332-Early Childhood Field Experience III – 1
Students will spend two full days in an elementary (K-2) classroom observing and helping the teacher with routines and instruction. Early Childhood Education majors only.

407-Middle School Philosophy and Organization – 3
Course will explore the philosophy behind the middle school movement, structures, age-appropriate instructional methods, and the development of curriculum for the middle level learner.

416-Inquiry, Investigation and Play in the Primary Years – 1
The primary focus is on using complex play, the tools of literacy, mathematics, the arts and content knowledge to engage in deep inquiry.

417-Assessment of Young Children – 3
Designed to engage candidates in using multiple, systematic observations and other responsible assessment strategies with young children and developing and administering informal and formal assessments. Early Childhood Education majors only.

418-Teaching Mathematics in Early Childhood Classrooms – 3
Major emphasis is placed on teaching and learning; integrating meaningful curriculum; learning environment; assessment; and technology. Early Childhood Education majors only.

424-Learning and Teaching English Language Arts at the Middle Level – 3
Course will focus on applying theory and principles to effective strategies in order to promote Literacy in the middle grades. Prerequisites: CIED 313 and CIED 322 with a grade of C or better.

425-Learning and Teaching Mathematics at the Middle Level – 3
Designed around professional principles and standards. Course will focus on mathematics, equity, curriculum, teaching, learning, assessment, technology, and participation in a professional community. Prerequisites: CIED 313 and CIED 322 with a grade of C or better.

426-Learning and Teaching Sciences at the Middle Level – 3
This course prepares middle level teacher candidates to implement science into the middle level curriculum using state and national standards as their guide. Prerequisites: CIED 313 and CIED 322 with a grade of C or better.

427-Learning and Teaching Social Studies at the Middle Level – 3
Provides context in which prospective middle level social studies teachers examine, utilizing a critical perspective, the functions, practices, and problematic issue of social studies education. Prerequisites: CIED 313 and CIED 322 with a grade of C or better.

441-Learning and Teaching Mathematics at the Elementary Level – 3
Designed around professional principles and standards. Course will focus on mathematics, equity, curriculum, teaching, learning assessment, technology, and participation in a professional community. This course must be taken concurrently with CIED 304, 442, 443. Prerequisites: CIED 313 and CIED 321 with a grade of C or better.

442-Learning and Teaching Science at the Elementary Level – 3
This course prepares elementary teacher candidates to implement science into the elementary curriculum using state and national standards as their guide. It must be taken concurrently with CIED 304, 441, and 443. Prerequisites: CIED 313 and CIED 321 with a grade of C or better.

443-Learning and Teaching Social Studies at the Elementary Level – 3
Provides a context in which prospective elementary social studies teachers examine, utilizing a critical perspective, the functions, practices, and problematic issues of social studies education. Must be taken concurrently with CIED 304, 441, 442. Prerequisites: CIED 313 and CIED 321 with a grade of C or better.
451-Student Teaching at the Elementary Level – 10
Five day a week clinical placement in elementary/middle level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a teacher preparation program. Must be taken concurrently with CIED 452. Prerequisites: CIED 304 with a satisfactory grade, CIED 441, CIED 442, CIED 443 with a grade of C or better.

452-Senior Seminar in Professionalism and Ethics of Teaching - 2
An exploration, synthesis and application of previous coursework. Focus on teaching as a profession. Reflection on the change process and professional ethics. Leads to the required CIED Senior Project. Must be taken concurrently with CIED 451. Prerequisites: CIED 304 with a satisfactory grade, CIED 441, CIED 442, CIED 443 with a grade of C or better.

457-Professionalism, Ethics and Advocacy in Early Childhood Education - 2
An exploration, synthesis and application of previous program coursework and translating its application to the field during full-time student teaching. Early Childhood Education majors only.

458-Pre-K Student Teaching - 5
Practice of teaching at Pre-K level. Early Childhood Education majors only.

459-Elementary Student Teaching - 5
Practice of teaching at Elementary (K-2) level. Early Childhood Education majors only.

Dance (DANC)

111-The Dance Experience – 3
Introductory course to give the student an understanding of how essential components of movement study come together to produce an aesthetic dance experience.
BFPA, IFAH

114-Movement Fundamentals – 3
Movement course: Introduction to dance technique, theory, and anatomy. May be repeated to a maximum of 9 hours.
EH, DFAH, FPA

210a,b-Beginning Modern Dance Techniques – 2 each
Movement course: Modern dance theories and techniques. Modern dance theories and techniques. May be repeated to a maximum of 6 hours. 210B - Prerequisite: consent of instructor.
EH, FPA

211a,b-Beginning Ballet – 2 each
Technique class. Fundamentals of classical ballet through Barre and Center exercises.
EH, FPA

212a,b-Jazz Dance – 1 each
Technique class. Exploring jazz techniques and performance style. May be repeated to a maximum of 4 hours.
EH, FPA

213-Beginning Tap Dance - 1
Basic tap steps and vocabulary. Tap choreography. May be repeated to a maximum of 3 hours.
FPA

214-Dance Improvisation - 1
Developing skills in perception and rapid translation of ideas into dance. May be repeated to a maximum of 4 hours.
EH, FPA, DFAH

220-Rhythmic Structure and Analysis - 2
Analysis and use of rhythms and compositional forms of music for dance. Prerequisites: 210a,b, or consent of instructor.
FPA

230-Introduction to Laban Movement Analysis - 2
Theoretical and physical applications of Laban Movement Analysis: Effort/Shape Notation (notation system recording changes in movement qualities with respect to time, weight, space, and energy flow), Space/Harmony (system that describes human movement in relation to space). Prerequisites: 214, 320, or consent of instructor.
FPA

240-History of Dance - 3
Development of dance prior to and during the 20th century. Prerequisite: consent of instructor. DFAH, FPA

250-University Dance Company – 1 to 2
Dance repertory and performance class. Emphasis on technical and choreographic skills for performance. Admission by audition only. May be repeated to a maximum of 9 hours.
FPA

260-Performance/Choreography – 1 to 2
Credit given for performing in and/or choreographing for regular scheduled dance concerts. Rehearsal time is required. Admission by audition only. May be repeated for a maximum of 4 hours provided that no topic is repeated.
DFAH, FPA

270-Independent Study in Dance – 1 to 2
Supervised study for students in dance, choreography, or performance. May be repeated to a maximum of 8 hours. Prerequisite: consent of instructor.
DFAH, FPA

310a,b-Intermediate Modern Dance Technique – 2 each
Movement course: Techniques designed for strength, flexibility, coordination. May be repeated to a maximum of 6 hours.
EH, FPA

311a,b-Intermediate Ballet Techniques – 2 each
Additional ballet vocabulary through Barre and Center work of increased difficulty. May be repeated to a maximum of 6 hours.
EH, FPA

314-Broadway Dance Styles – 1 to 4
Movement course: Exploration of various dance styles used in Broadway musicals. Course will use techniques in the jazz, ballet, and modern genre. Prerequisites: DANC 114 with a grade of C or better.
BFPA, DFAH, EH

410a,b-Advanced Modern Dance Techniques – 2 each
Movement course: Theory and technique. Developing advanced skills in dance movement. Preparing kinetic and artistic abilities for performance.
FPA

411a,b-Advanced Ballet – 2 each
Movement course: Mastery of ballet vocabulary through advanced barre and center floor work. May be repeated to a maximum of 8 hours.
FPA

420a/b-Dance Composition I - 2
Movement studies for solo figure based on exploration of fundamental ingredients of dance and how to organize them into compositional forms.
FPA

433-Dance Pedagogy and Methodology - 2
Principles and methodologies of dance instruction. Not for graduate credit.
FPA

460-Performance/Choreography - 1 to 2
Credit given for performing in and/or choreographing for regular scheduled dance concerts. Rehearsal time is required. Admission by audition only. May be repeated for a maximum of 4 hours provided that no topic is repeated. Not for graduate credit.
DFAH, FPA
470-Independent Study in Dance – 1 to 2
Supervised study for upper level students in dance, choreography, or performance. May be repeated to a maximum of 8 hours. Not for graduate credit. Prerequisites: consent of instructor.
DFAH, FPA

499-Senior Assessment in Dance - 3 S
Individual/group projects demonstrating proficiency in dance and General Education skills and knowledge. Not for graduate credit. Prerequisites: Senior Dance major.
DFAH

Earth Science (ESCI)

111-Introduction to Physical Geology and Geography – 3 FSM
Physical geology and geography of the solid Earth. Hydrologic system, weathering, soils, landforms, sedimentary rocks. Tectonic system, magmatism, igneous rocks, crustal deformation, metamorphism.
BPS, EL, INSM [IAI No. P1 905]

Economics (ECON)

111-Principles of Macroeconomics - 3 FSM
Measurement and determination of national economic activity including production, income, employment, prices; role of government policy in U.S. macroeconomy.
BSS, ISS [IAI No. S3 901]

112-Principles of Microeconomics – 3 FSM
Principles and characteristics of the market economy: supply, demand, market equilibrium; household demand, firm cost and supply; market structure, government regulation and deregulation; factor markets.
BSS, DSS [IAI No. S3 902]

221-Economic History of the United States – 3
Analysis of economic and financial development from colonial times to present; evolution of markets; changing role of government and policies. Prerequisites: 111 and 112.
BSS, DSS

301-Intermediate Microeconomic Theory - 3 FS
Determination of prices and quantities in markets for goods and services. Theories of consumer behavior, cost structures, factor payments. Firm behavior in alternative markets. Prerequisites: 111 and 112 and MS 251.
BSS, DSS

302-Intermediate Macroeconomic Theory - 3 FS
Roles of goods markets and financial markets in the determination of national income and inflation; economic growth and business cycles; fiscal and monetary policy. Prerequisites: 111 and 112 and MS 251.
BSS, DSS

327-Social Economics: Issues in Income, Employment and Social Policy - 3 FM
Economic aspects of social problems such as poverty, discrimination, and unemployment; economic analysis of social policies such as social insurance, welfare programs, employment legislation, taxation. Prerequisite: 111 and 112.
DSS, EUSC, IGR

331-Labor Economics - 3 F
An analysis of labor force participation, employment, wage determination, economic stability; investment in human capital; trade unionism; collective bargaining; public policy. Prerequisites: 111 and 112.
BSS, DSS

341-3 Topics in Economics - 3 S
Selected topics in economics. May be repeated up to 6 hours provided no topic is repeated.
BSS, DSS

344-Financial Markets – 3 (Same as FIN 344) S
Functions and practices of domestic and international debt markets; recent structural changes. Asset securitization, relationships across financial markets. Management of financial intermediaries. Prerequisite: FIN 320.
SS

345-Economics of the Public Sector: National – 3 S
Role of government in U.S. economy; federal expenditures, revenue, and debt; evaluation of government policy including analysis of taxes, grants, public services. Prerequisites: 111 and 112.
BSS, DSS

350-Economics and Ethics - 3 F
A cross-disciplinary approach using economics to explore important everyday issues, such as market exchange, sale of human organs, availability of payday loans, and corporate responsibility. Prerequisites: 111 and 112 with C or better.
BSS

361-Introduction to International Economics - 3 S
Survey of causes and composition of trade between nations; barriers to trade; balance of payments; foreign exchange markets; international monetary markets and policy. Prerequisites: 111 and 112.
BSS, DSS, EGC, II

400-Quantitative Methods for Economics and Business Analysis – 3 (Same as Fin 400)
Applications of mathematical tools to economic and business analysis; emphasis on using calculus and linear algebra in economic and business models. Prerequisites: ECON 301 and 302 and MS 250 or consent of instructor.
SS

415-Econometrics – 3 (Same as FIN 415) F
Empirical research methodology and ethics. Hypothesis testing and predicting with OLS regression. Estimation with violations of classical assumptions. Multicollinearity problems; dummy variables; model specification. Will not count toward MA or MS in Economics and Finance. Prerequisites: 301 and 302 or consent of instructor and MS 251 with a grade of C or better.
SS

417-Business Forecasting - 3 (Same as FIN 417) S
Survey of methods to forecast economic and financial conditions and markets for individual products, sectors, or regions. Time series, indicator, judgmental, econometric, and Box-Jenkins techniques. Satisfies research requirement for business programs. Will not count toward MA or MS in Economics and Finance. Prerequisites: 301 and 302 or consent of instructor and MS 251 with a grade of C or better.
SS

428- Applied Microeconomics - 3
Applies microeconomic theory to business decision making. Focus is on applications/cases; understanding how to apply economic tools to variety of business problems. Prerequisite: ECON 301 with grade of C or better.
SS

435-Competition and Public Policy - 3 S
Economic implications of alternative market structures. Investigation of impact of concentration, economies of scale, advertising, and conglomerates on business and society. Prerequisite: ECON 301.
BSS, DSS

439-Economics of Sports - 3 S
Economic analysis applied to issues concerning major professional team sports such as free agency, salary caps, competitive balance, stadium contracts, and franchise relocation. Will not count toward MA or MS in Economics and Financial Economics.
Finance. Prerequisites: 111, 112, MS 250, and MS 251 with grades of C or better.

SS

445-Economics of the Public Sector: State and Local - 3
Public expenditure and taxation; intergovernmental fiscal relations; budgeting; grants; public choice. Prerequisites: 111 and 112.

BSS, DSS

450-International Finance – 3 (Same as FIN 450)

EGC, II, SS

461-International Trade Theory and Policy – 3
Theory of causes and composition of trade; comparative advantage; tariff and nontariff barriers to trade; economic integration; commercial policy. Prerequisite: 301.

BSS, DSS, EGC, II

490-Independent Study in Economics – 1 to 6
Investigation of topic areas. Individual or small group readings under supervision of faculty member. Will not count toward MA or MS in Economics and Finance. Prerequisites: consent of instructor and department chairperson. May be repeated to a maximum of 6 hours.

SS

Educational Psychology, Foundations and Research (EPFR)

315-Educational Psychology – 1 to 3
Human Learning and development as applied to school environment. Emphasis on cognitive process; cognitive development; behavior; classroom evaluation. May be repeated up to 3 hours.

SS

320-Foundations of Education in a Multicultural Society – 3
Philosophical, historical, social and cultural foundations of education in a multicultural society, with emphasis on understanding education in context to improve teaching practice.

341-The Middle School Learner - 3
Addresses characteristics of young adolescent learners and implications for instruction. Course meets Illinois requirements for middle school endorsement, and is designed for pre-service and in-service teachers. Prerequisites: 315, 320, or graduate standing.

341-Gender and Education - 3 (Same as WMST 451)
Policies and practices related to sex-role stereotyping, teacher expectations and gender, curricular bias, discrimination, personnel policies, strategies for change.

EUSC, IGR

Electrical and Computer Engineering (ECE)

145-Introduction to Computer Programming - 3
Specification, design, implementation, testing, debugging, maintenance, and documentation of computer programs. Control structures, functions, data abstraction, and arrays. Java, C++, or a similar programming language. Prerequisites: MATH 120 with a grade of C or better.

BICS, SKCP

198-Electrical and Computer Engineering Work Experience I - 0
Supervised work experience with agency, firm or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: declared major in electrical and computer engineering.

199-Electrical and Computer Engineering Cooperative Education I - 0
Supervised work experience with agency, firm, or organization which uses engineers. First work period of five year academic/ work experience program. Prerequisites: sophomore standing in electrical engineering and consent of engineering co-op advisor.

210-Circuit Analysis I - 3
DC and AC steady-state circuit analysis. Loop and nodal analysis, network theorems, phasors, complex power, single-phase and three-phase circuits. Prerequisites: declared major in an engineering discipline, grade of C or better in PHYS 141, MATH 150, MATH 152, MATH 250 or concurrent enrollment in MATH 250.

211-Circuit Analysis II - 4
Time-domain transient analysis, complex frequency, frequency response, two port networks, Laplace Transform techniques, impulse response and convolution. Three hours lecture and one laboratory session per week. Prerequisites: declared major in an engineering discipline, grade of C or better in MATH 150, MATH 152, MATH 250, MATH 305 or concurrent enrollment in MATH 305.

282-Digital Systems Design - 4
Concepts and design of computer circuitry; binary number systems; study of microprocessors and assembly language programming. Introduction to Verilog HDL. Laboratory exercises involve circuit implementation and programming. Three lecture hours and one laboratory session per week. Prerequisites: declared major in an engineering discipline, grade of C or better in CS 140 or CS 145.

298-Electrical and Computer Engineering Work Experience II - 0
Supervised work experience with agency, firm or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: declared major in electrical and computer engineering.

299-Electrical and Computer Engineering Cooperative Education II – 0
Supervised work experience with agency, firm, or organization which uses engineers. Second work period of five year academic/ work experience program. Prerequisites: sophomore or junior standing in electrical engineering and consent of engineering co-op advisor.

326-Electronic Circuits I - 4
Introduction to semiconductors; diode, transistor and FET; small and large signal analysis; logic gate families and design. Three hours lecture and one laboratory session per week. Prerequisites: declared major in an engineering discipline, grade of C or better in 211 and MATH 305.

340-Engineering Electromagnetics - 3
Introduction to engineering electromagnetics. Includes vector analysis, time-harmonic fields, electromagnetic wave propagation, transmission lines, waveguides, antennas. Prerequisites: Declared major in an engineering discipline; grades of C or better in ECE 211, MATH 305, and PHYS 152 and 152L.

341-Principles of Electro-Mechanical Energy Conversion - 4
Basic electromagnetic concepts, energy-based torque and force and calculations, transformers, induction machines, synchronous machines, DC machines. Three hours lecture hours and one laboratory session per week. Prerequisite: declared major in an engineering discipline, grade of C or better in 340.
Electrical and Computer Engineering (ECE)

351-Signals and Systems - 3 FS
Basics of continuous and discrete signals and systems. Convolution, Fourier analysis, filtering, modulation and sampling, Z-transforms. Prerequisite: declared major in an engineering discipline, grade of C or better 211 and MATH 305.

352-Engineering Probability and Statistics - 3 FS
Probability, random variables, probability distributions, statistics, Monte-Carlo simulations, estimation theory, decision theory, hypothesis testing, random processes, linear system response to random processes. Prerequisites: declared major in an engineering discipline, grade of C or better in 351 or concurrent enrollment.

365-Control Systems - 3 FS
Mechanical and electrical systems modeling, signal flow graphs, state variable approach, root-locus approach, Bode plots/ Nyquist plots, frequency domain design and Proportional-Integral-Derivative (PID) controller tuning methods. Prerequisite: declared major in an engineering discipline, grade of C or better in 351.

375-Introduction to Communications - 3 F
Time-and frequency-domain analysis; bandwidth, distortion, and noise. Baseband pulse transmission; sampling; pulse shaping. Digital and analog modulation techniques. Analysis of bit-error probability. Prerequisites: declared major in an engineering discipline, grade of C or better in 351, 352.

381-Microcontrollers - 3 FS
Interfacing and programming microcontrollers to measure/control various hardware and signals, GPIO, LCD, ISRs, encoders, UART/RS-232, I2C, SPI, ADC/DAC. Three hours lecture and one laboratory session per week. Prerequisite: grade of C or better in ECE 282. For Engineering majors only.

398-Electrical and Computer Engineering Work Experience III - 0 FSM
Supervised work experience with agency, firm or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: declared major in electrical and computer engineering.

399-Electrical and Computer Engineering Cooperative Education III - 0 FSM
Supervised work experience with agency, firm, or organization which uses engineers. Third work period of five year academic/work experience program. Prerequisites: junior or senior standing in electrical engineering and consent of engineering co-op advisor.

404-Electrical and Computer Engineering Senior Design I - 3 FSM
Design overview, design methodologies, design considerations and project communication. Students work in groups to complete the initial design of their capstone design project. Not for graduate credit. Prerequisites: Senior standing in electrical or computer engineering, grade of C or better in 382, 351 and one of the following: 375 or 381.

405-Electrical and Computer Engineering Senior Design II - 3 FSM
Realization of senior project designed in 404, including construction, computer simulation, debug, test as required by project to obtain functional prototype. Not for graduate credit. Prerequisite: declared major in an engineering discipline, grade of C or better in 404.

426-High Frequency Design - 3
High frequency circuit design with elements of RF engineering. Amplifiers, oscillators, modulators, impedance matching, switching, signal integrity and tuning. Prerequisite: declared major in an engineering discipline, grade of C or better in 326.

427-Knowledge-Based Systems - 3 (Same as IE 427) M
Engineering-oriented perspective on artificial intelligence (AI) technology. General AI concepts specifically knowledge-based (expert) systems applied to engineering problem-solving. Prerequisites: declared major in an engineering discipline; knowledge of one of the familiar computer programming languages (BASIC, C, Fortran or Pascal).

428-Analog Filter Design - 3 F
Active and passive filter synthesis. Standard low-pass approximations: Butterworth, Chebyshev, Inverse Chebyshev, Cauer, Bessel and frequency transformations. Active and passive circuit implementations. Prerequisites: Grade of C or better in ECE 326 and 351.

433-Fuzzy Logic and Applications - 3 (Same as ME 433.)
Fundamentals of fuzzy sets, basic operations, fuzzy arithmetic, and fuzzy systems. Examples of applications in various fields of engineering and science. Prerequisite: declared major in an engineering discipline.

436-Digital Signal Processing - 3
Discrete-time signals and systems; sampling; z-transforms; discrete Fourier transform; difference equations; design and implementation of digital filters; DSP development systems. Prerequisite: declared major in an engineering discipline, grade of C or better in 351.

438-Image Analysis and Computer Vision - 3 F
Image formation, geometrical and topological properties of binary images, image filtering, boundary detection, image segmentation, pattern recognition. Two hours lecture and one laboratory session per week. Prerequisite: declared major in an engineering discipline, grade of C or better in 351.

439-Digital Image Processing - 3 S
Fundamentals of human perception, sampling and quantization, image transforms, enhancement, restoration and coding. Two hours lecture and one laboratory session per week. Prerequisite: declared major in an engineering discipline, grade of C or better in ECE 351.

445-Power Distribution Systems - 3 S
Distribution system planning, load characteristics, application of distribution transformers, design of distribution system, voltage-drop and power-loss calculations, voltage regulation, protection and reliability. Prerequisite: declared major in an engineering discipline, grade of C or better in 341.

446-Power System Analysis - 3 M
Synchronous machines, power transformers, transmission lines, system modeling, load-flow study, economic operation of power systems, symmetrical components, symmetrical and unsymmetrical faults, power system stability. Prerequisite: declared major in an engineering discipline, grade of C or better in 341.

447-Radar Systems - 3
Introduction to radar systems, including antenna fundamentals, radar equation, radar signals and systems, CW radar, FM-CW radar, pulse radar, tracking radar. Prerequisites: declared major in an engineering discipline, grade of C or better in 340, 351.

455-System Modeling and Optimization - 3 S
Mathematical modeling of engineering systems; dynamic response of electrical and mechanical systems; optimization models in electrical engineering. Prerequisites: declared major in an engineering discipline, grade of C or better in 351.

465-Control Systems Design - 3 F
Root-locus analysis; frequency-response analysis; design and compensation technique; describing-function analysis of nonlinear control systems; analysis and design by state-space methods. Prerequisites: declared major in an engineering discipline, grade of C or better in 363.

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Course Descriptions

409
466-Digital Control - 3 — (Same as ME 466.) Topics include finite difference equations, z-transforms, state variable representation, analysis and synthesis of linear sampled-data control systems using classical and modern control theory. Prerequisites: declared major in an engineering discipline, grade of C or better in 365 or ME 450.

467-Robotics: Dynamics and Control - 3 (Same as ME 454) Robotics, robot kinematics and inverse kinematics, trajectory planning, differential motion and virtual work principle, dynamics and control. Prerequisites: declared major in an engineering discipline, consent of instructor.

475-Communication Systems - 3 Digital transmission through band-limited channels; optimum receiver principles; symbol synchronization; channel capacity and coding; bandpass digital modulation; case studies of communication systems. Prerequisites: declared major in an engineering discipline, grade of C or better in 375.

476-Electronic Circuits II - 3 Small signal analysis and frequency response: operational amplifier design; feedback system analysis, stability and compensation; oscillators; A/D and D/A converters. Three hours lecture and one laboratory session per week. Prerequisite: declared major in an engineering discipline, grade of C or better in 326.

477-Network Engineering - 3 Principles and practice of network engineering. The ISO-OSI reference model is used as a framework for examining internet work communication issues. Prerequisite: declared major in an engineering discipline, grade of C or better in ECE 282.

482-Microprocessor Systems - 3 Design of microprocessor systems using VLSI building blocks. Several microprocessors and peripheral ICs studied laboratory experiments with microprocessor systems using logic analyzers. Three hours lecture and one laboratory session per week. Prerequisite: declared major in an engineering discipline, grade of C or better in ECE 282.

483-Advanced Digital Systems Engineering - 3 Design of digital systems using a hardware description language, logic synthesis tools, and field of programmable gate arrays. Prerequisites: declared major in an engineering discipline, grade of C or better in ECE 282.

485-Embedded Power Electronics Controllers - 3 Practical approach to programming dedicated microprocessor systems, communication links, sensor signal conditioning, gate driver, inner and outer control loops, power startup, and user interface. Prerequisite: grade of C or better in 282 or consent of instructor.

484-VLSI/CAD Design - 3 Discussion of CMOS circuits, MOS transistor theory, CMOS processing technology, circuit characterization and CMOS circuit and logic design. Prerequisite: declared major in an engineering discipline, grade of C or better in 326.

491-Independent Study - 1 to 4 Individual investigation of a topic in Electrical Engineering to be agreed upon with the instructor. May be repeated for a maximum of 6 hours provided that no topic is repeated. Prerequisites: ECE major and consent of instructor.

492-Topics in Electrical and Computer Engineering - 2 to 6 Selected topics of special interest; course schedule will include name of topic. May be repeated to maximum of 6 hours so long as no topic is repeated. Prerequisites: ECE major and consent of instructor.
204-Studies in Fiction – 3
Reading and discussion of selected major examples of modern fiction, the short story to the novel. Attention to themes and techniques.
BHU, DFAH [IAI No. H3 901]

205-Introduction to African American Texts - 3
African American texts in the form of oratory, sermons, speeches, poetry, fiction, and/or drama. Various literary periods from colonial to contemporary times may be covered.
BHU, DFAH, EUSC

206-Introduction to Film Genre - 3
Introduces students to a variety of film genres and develops skills in film appreciation. Prerequisite: ENG 102 with a C or better.
BHU, DFAH

207-Language Awareness – 3
Introductory course in the nature of language. Focus on English language: what language is and how people use it.
BICS, DFAH, EGC, EUSC

208-Topics in Early British Literature – 3
The in-depth study of a variety of early British literary works; topic varies.
BHU, DFAH, EGC [IAI No. H3 912]

209-Topics in Modern British Literature – 3
The in-depth study of a variety of modern British literary works; topic varies.
BHU, DFAH, EGC [IAI No. H3 913]

210-Topics in Early American Literature – 3
The in-depth study of a variety of early American literary works; topic varies.
BHU, DFAH, EUSC [IAI No. H3 914]

212-Topics in Modern American Literature – 3
The in-depth study of a variety of modern American literary works; topic varies.
BHU, DFAH, EUSC [IAI No. H3 915]

214-Topics in World Literature: Ancient to Medieval – 3
The in-depth study of a variety of works in ancient and medieval world literatures; topic varies. Prerequisite: C or better in 102.
BHU, DFAH, EGC

215-Topics in World Literature: Renaissance to Modern – 3
The in-depth study of a variety of works in Renaissance through modern world literatures; topic varies. Prerequisite: C or better in 102.
DFAH, BHU, EGC, IC

290-Introduction to Creative Writing – 3
Provides an introduction to the basic genres of creative writing (fiction, poetry, drama, creative nonfiction) with an emphasis on craft and the writing process. Prerequisite: C or better in 102.
BIFS, DFAH

301-Introduction to Literary Theory and Criticism – 3
Selected literary theories, types of criticism, and theorists. Practice in interpreting and writing about literature, and in application of research methods. Prerequisite: C or better in 200 or consent of instructor.
DFAH, HUM

306-Introduction to the Bible – 3
Reading and discussion of selected books from the Old and New Testaments and Apocrypha in translation, with attention to their literary, historical, and theological contexts. Prerequisite: C or better in 102.
BHU, DFAH, EGC

307-Introduction to Shakespeare – 3
Shakespeare’s life; the Elizabethan theater; representative plays and poems. Prerequisite: C or better in 102.
BHU, DFAH, EGC [IAI No. H3 905]

309-Popular Literature – 3
Analysis of literature which has influenced and been influenced by popular culture. May be repeated up to 6 hours provided no topic is repeated. Prerequisite: C or better in 102.
BHU, DFAH

310-Classical Mythology and Its Influence – 3
Major Greek and Roman myths: origin, nature, interpretations, and use in the modern world. Prerequisite: C or better in 102.
BHU, DFAH, EGC

315-Literature and Sustainability – 3
Considers sustainability in an environmental, economical, cultural and/or political context in literature. Prerequisite: C or better in 102.
BHU, DFAH, EUSC

318-Language Endangerment and Death – 3
An introduction to the concept of linguistic diversity as well as the socio-political and economic factors presenting threats to this diversity.
BHU, EGC, IC

332-Argument – 3
Students will investigate argument history, strategy, and theory; analyze arguments and rhetorical situations-rhetor, audience, purpose, context; and compose and evaluate argumentative prose. Prerequisite: ENG 102 with grade of C or better.
BHU, DFAH

333-The Rhetoric of Videogames – 3
Introduction to investigation of theory, history, practices, applications of video games. Examination of games, gamers, and gaming culture. Videogame play and reflection. Analysis/creation of videogames. Prerequisites: 102 with a grade of C or better.
– [BIFS, EUSC]

334-Scientific Writing – 3
Offers students experience in researching, writing, structuring and revising scientific documents. Designed for science and English majors or minors. Prerequisite: C or better in 102.
BIFS, DFAH, HUM

340-Topics in Global Literatures – 3
Global literatures from antiquity to present; social, political, historical, and philosophical problems reflected in literature. Prerequisite: C or better in 102.
BHU, DFAH, EGC, IC

341-African American Women’s Writing – 3 (Same as WMST 341)
Poems, novels, short stories, essays, dramas, autobiography, and other texts by African American women writers during various periods from Colonial to Contemporary times. Prerequisite: C or better in 102.
BHU, DFAH, EUSC, IGR [IAI No. H3 910D]

342-Topics in African American Literature – 3
Variable topics course exploring trends in African American literature across literary time periods. May repeat up to 6 hours with new topic. Prerequisite: C or better in 102.
BHU, DFAH, EUSC, IGR

343-Topics in African American Rhetoric and Oratory – 3
This course introduces students to essays; oratory; slave narratives; speeches and theories relative to abolitionism; captivity; religion; and civil-rights-focused movements in African American texts. May be repeated up to 6 credit hours provided no topic is repeated. Prerequisite: C or better in 102.
BHU, DFAH, EUSC, IGR

344-Topics in Ethnic Literature – 3
This course will examine ethnic literatures from a socioeconomic, political, and historical context. Students will
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisite/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>345</td>
<td>Topics in African American Poetry and Folklore</td>
<td>3</td>
<td>Examinations of parallel themes, forms, missions and theories of African American poetry/folklore from ancient origins to Langston Hughes, Gwendolyn Brooks, Rita Dove, blues, and rap. May be repeated up to 6 credit hours provided no topic is repeated. Prerequisite: C or better in 102. BICS, DFAH, EGC, HUM</td>
</tr>
<tr>
<td>369</td>
<td>Grammatical Analysis</td>
<td>3</td>
<td>Analysis of formal spoken and written English sentences; encourages critical thinking about conceptions of grammar and greater awareness of our (mostly unconscious) knowledge of language. BICS, HUM</td>
</tr>
<tr>
<td>370</td>
<td>Morphological Analysis</td>
<td>3</td>
<td>An introduction to the analysis of the internal structure of words, and the processes of inflection, derivation, and word formation found in human languages. BICS, DFAH, EGC, EUSC, HUM</td>
</tr>
<tr>
<td>392</td>
<td>Fiction Writing</td>
<td>3</td>
<td>Short story writing, with special emphasis on plot, point of view, description, dialogue, and other elements in the rhetoric of fiction. Workshop format. Prerequisite: C or better in 290. BFPA, DFAH</td>
</tr>
<tr>
<td>393</td>
<td>Poetry Writing</td>
<td>3</td>
<td>Writing of poetry and study of poetic fundamentals, including form, imagery, figurative language, and speaker. Workshop setting for critiques of student work. Prerequisite: C or better in 290. BFPA, DFAH</td>
</tr>
<tr>
<td>400</td>
<td>Principles of Linguistics</td>
<td>3</td>
<td>Principles and techniques of linguistic analysis illustrated through survey of major structural components of language. Recommended for anthropology students, linguistics students, and those preparing to teach English. Prerequisites: junior standing or consent of instructor. BICS, DFAH, EGC, EUSC, HUM</td>
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<tr>
<td>403</td>
<td>History of the English Language</td>
<td>3</td>
<td>Historical survey of major phonological and grammatical changes in English language from its Indo-European antecedents to the present. Prerequisites: junior standing or consent of instructor. BICS, DFAH, EGC, HUM</td>
</tr>
<tr>
<td>404</td>
<td>Chaucer: Canterbury Tales</td>
<td>3</td>
<td>The Canterbury Tales read in Middle English. Prerequisite: C or better in 102; junior standing or consent of instructor. BHUM, DFAH, EGC</td>
</tr>
<tr>
<td>405</td>
<td>Pragmatics</td>
<td>3</td>
<td>Study of principles controlling how implicit levels of meaning are expressed in language and how context influences the interpretation of meaning. Prerequisite: junior standing or consent of instructor. BICS, HUM</td>
</tr>
<tr>
<td>406</td>
<td>Old English Language</td>
<td>3</td>
<td>Sounds, grammar, and vocabulary of the Old English Language, including readings in Old English poetry and prose. Prerequisite: C or better in 102; junior standing or consent of instructor. DFAH, HUM</td>
</tr>
<tr>
<td>408</td>
<td>Phonological Analysis</td>
<td>3</td>
<td>Principles of linguistic analysis and interpretation as applied to sound systems of language. Prerequisite: junior standing or consent of instructor. BICS, DFAH, EGC, EUSC, HUM</td>
</tr>
<tr>
<td>409</td>
<td>Syntactic Analysis</td>
<td>3</td>
<td>Principles of syntactic analysis and interpretation as applied to clause and sentence level structures. Prerequisite: junior standing or consent of instructor. BICS, DFAH, EGC, EUSC, HUM</td>
</tr>
<tr>
<td>410</td>
<td>Rhetoric, Writing, and Citizenship</td>
<td>3</td>
<td>Examination of rhetoric's role in US citizenship both past and present. Students will write analytical and persuasive documents. Service learning project required. Prerequisite: ENG 102 with grade of C or better.</td>
</tr>
<tr>
<td>411</td>
<td>Internship in Writing</td>
<td>3</td>
<td>Involvement in developing workplace writing. Supervised by selected faculty member and cooperating site. Prerequisite: ENG 102 with grade of C or better.</td>
</tr>
<tr>
<td>412</td>
<td>Digital Literacies</td>
<td>3</td>
<td>Students will investigate digital literacy - electronic technologies, discursive practices, and cyberspaces. Analysis and assessment of digital artifacts, cultures, and texts. Prerequisite: ENG 102 with grade of C or better. BICS, DFAH, EGC, HUM</td>
</tr>
<tr>
<td>416</td>
<td>Language and Society</td>
<td>3</td>
<td>Relationships among language, society, and culture, and their implications for education and intercultural communication. Topics include language variation, socialization, and ethnography of communication. Prerequisite: junior standing or consent of instructor. BICS, EGC, EUSC, HUM</td>
</tr>
<tr>
<td>417</td>
<td>Language and Ethnicity</td>
<td>3</td>
<td>The course will introduce students to linguistic thought through definitions of ethnicity, case studies of diverse language communities, ethnic crossing via language, and inter-ethnic communication. Prerequisite: Junior standing or higher, or signed consent of instructor. BICS, DFAH, EGC, EUSC, HUM</td>
</tr>
<tr>
<td>420</td>
<td>Topics in Film Studies</td>
<td>3</td>
<td>Variable topics course focusing on the history and aesthetic development of one or two film genres, styles or historical periods. Prerequisite: ENG 102 with C or better, Junior standing or consent of instructor. BHUM, DFAH</td>
</tr>
<tr>
<td>443</td>
<td>Prosody</td>
<td>3</td>
<td>Students will both study and write metrical poetry. All aspects of versification will be considered. For both literature majors and creative writing minors. Prerequisite: 102 with a minimum grade of C. BHUM, DFAH</td>
</tr>
<tr>
<td>444</td>
<td>Creative Nonfiction</td>
<td>3</td>
<td>Writing practice in and examination of a wide variety of modes and subjects comprising the genre of creative nonfiction, i.e. memoir, personal essay, lyric essay. Workshop format. Prerequisite: ENG 290. FPA</td>
</tr>
<tr>
<td>445</td>
<td>Young Adult Literature</td>
<td>3</td>
<td>Historical survey of and contemporary perspectives on young adult literature. Students will analyze interactions between literary texts and the cultures in which they are read. Prerequisite: 102 with a minimum grade of C; junior standing or consent of instructor. HUM</td>
</tr>
</tbody>
</table>
446- Studies in African-American Literature – 3
Fiction, poetry, short stories and essays of African-American writers within the context of scholarship and criticism dedicated to the study of Black diasporic cultures. May be repeated up to 6 hours. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH, EUSC, IGR

457- Topics in Postcolonial Literature and Criticism – 3
Examination of Postcolonial texts novels, poems, plays, memoirs, speeches, and critical essays with focus on scholarship and theory in Postcolonial studies. May be repeated to a maximum of 6 hours provided no topic is repeated. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH, EGC, EUSC, IGR

463- Topics in Literary Periods – 3
Reading and analysis of works drawn from one or more specific literary periods; authors and periods vary. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisite: junior standing or consent of instructor. 
BHUM, DFAH

464- Topics in Forms and Genres – 3
Reading and analysis of works drawn from one or more specific literary forms and genres; authors, forms, and genres vary. May be repeated to a maximum of 9 hours as long as no topic is repeated. Prerequisite: junior standing or consent of instructor. 
BHUM, DFAH

465- Special Topics – 3
Special topics in literature, linguistics, rhetoric and composition, and creative writing. Prerequisite: ENG 102 with grade of C or better; junior standing or consent of instructor. 
DFAH

468- Second Language Acquisition – 3
Examination of issues and theories applicable to understanding process of second language development. Prerequisite: Junior standing or consent of instructor. 
BICS

470- Methods and Materials for P-12 ESL and Bilingual Teaching – 3
Examination of techniques and materials for teaching dual-language and English Learners in P-12 settings. 
EUSC, BICS

471- Shakespeare – 3
The in-depth study of the works of Renaissance author William Shakespeare. Topic varies; may be repeated to a maximum of 6 hours so long as topic is not repeated. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH, EGC

472- Assessment and Testing in ESL – 3
Examination of issues and methods for assessing oral and written proficiency in English as a Second Language. Prerequisite: junior standing or consent of instructor. 
BICS

473- Milton – 3
Paradise Lost and other works such as Samson Agonistes, Paradise Regained, Lycidas, Comus, and selected prose. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH, EGC

474- Bilingualism and Bilingual Education – 3
An introduction to cognitive, linguistic, and social perspectives on bilingualism, and the history and politics of bilingual education in the U.S. Prerequisite: Junior standing or consent of instructor. 
BICS, EUSC

475- Methods of Teaching Secondary English: Literature and Culture – 3
F
Approaches to and issues in teaching literature and culture at the secondary level. Must be seeking secondary ELA certification. Prerequisite: C or better in 102 or consent of instructor. 

476- Practicum in English as a Second Language – 3
FSM
This course is designed for students who need to gain supervised experience teaching ESL for the purposes of the state ESL endorsement. Prerequisite: 470 or 542.

477- Morrison – 3
S
Reading and analysis of the works of major contemporary American author Toni Morrison. Prerequisite: 102 with a grade of C or better; junior standing or consent of instructor. 
BHUM, DFAH, EUSC, IGR

478- Studies in Women, Language, and Literature – 3
(Same as WMST 478)
FS
Relationships among society, gender, language, and literature: ways women are affected by and depicted in language and literature; literature written by women; feminist criticism. Topic varies; may be repeated to a maximum of 6 hours so long as topic is not repeated. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH, EUSC, IGR

479- Major Authors: Shared Traditions – 3
Reading and analysis of the works of two to four major authors who share an historical period; authors and topic vary. May be repeated up to a maximum of 6 hours so long as authors and topic are not repeated. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BHUM, DFAH

480- Major Authors: Crossing Boundaries – 3
Reading and analysis of the works of two to four major authors from different historical periods; authors and topic vary. May be repeated to a maximum of 6 hours as long as no topic is repeated. junior standing or consent of instructor. Prerequisite: 102 with grade of C or better. 
BHUM, DFAH, EUSC, IGR

482- Technology and Literature – 3
Analysis of digital theory, electronic environments, hypertextual editing, and born-digital literatures. Prerequisite: C or better in 102; junior standing or consent of instructor. 
BICS

485- Methods of Teaching Secondary English: Composition and Language – 3
S
Approaches to and issues in teaching composition and language usage at the secondary level. Prerequisite: must be seeking secondary ELA certification; C or better in 102; junior standing or consent of instructor. 

486- Teaching Creative Writing – 3
Seminar on the teaching of creative writing, with an emphasis on poetry and/or fiction. Prerequisite: junior standing or consent of instructor. 

488- Rhetoric, Politics, & the Law – 3
Rhetorical figures, political texts and speeches, law and policies, from classical origins to today. Analysis of persuasion, reason, style, fallacy, rhetorical situation and context. Prerequisite: 102 with a C or better or graduate standing. 
BHUM, DFAH, EGC

489- Style and Intentionality – 3
A writing course on the study of style. The aim: to study stylistic conventions and innovations. The course is both theoretical and practical.
Naturally occurring and anthropogenic toxicants can cause adverse environmental impacts. This course provides the fundamental information concerning the effects of environmental toxicants on living organisms.

BPS, DNSM

210-Applied Research Methods – 3 S
Research methods for the analysis of environmental problems. Survey research and other data collection techniques. Collection, interpretation, and critical evaluation of data. BPS, DNSM

220-Principles of Environmental Sciences – 3 FS
Applications of biological, ecological, physical and chemical principles, and systems approaches to policy analysis of air, soil, and water environments, land use, energy supplies and technology, and other resources. BPS, DNSM

220L-Principles of Environmental Sciences Laboratory – 1 FS
Laboratory exercises to introduce system analysis of air, soil, and water environments, land use, energy supplies, and other resources using biological, ecological, physical and chemical principles. Prerequisite: current or previous enrollment in 220. BPS, DNSM, EL, LNSM

325a-Toxicants in the Environment - 3
Sources and occurrence of major environmental toxicants; Physical and chemical properties of toxicants and environmental factors affecting toxicants' transport, transformation, and distribution in the environment. Prerequisite: 220 or consent of Instructor. BPS, DNSM

325b-Toxicants in the Environment - 3
Basic concepts and techniques of environmental sampling, sample preparation, and chemical analyses of toxicants; Field and laboratory skills, major analytical instruments, data analysis and interpretation. Prerequisite: 325a or consent of Instructor. BPS, DNSM, EL

330-Environmental Health and Waste Management – 3 (same as BIOL 330) S
Introduction to human health effects of environmental hazards of a biological or physical nature in food, water, soil, animals and wastes. Prerequisites: BIOL 111 and CHEM 111; or BIOL 150; or equivalent(s); or consent of instructor. DNSM, EGC, II, LS

340-Ecosystem Management and Sustainability – 3 F
Management of natural resources through the adaptive and community-based conservation approaches, with an emphasis on developing sustainable ecosystems. Prerequisites: BIOL 111 or equivalent or consent of instructor. BLS, DNSM

401-Environmental Policy - 3 (Same as POLS 425) F
Relationship between political processes and policy outcomes; correlation of environmental politics and science; balancing trade-offs between legal, economics, social and environmental goals, including service learning. Prerequisite: 220 or consent of Instructor. BSS

402-Environmental Law – 3 F
Principle issues in environmental law and the judicial interpretation of important environmental statutes. Prerequisites: ENSC 220 or consent of instructor. DSS, SS
Course Descriptions

411-Hydrology – 3 (Same as GEOG 41)
Hydrologic cycle, major stream systems, and uses of water resources and their relationships to quality and future supplies. Prerequisite: GEOG 111 or consent of instructor.
DNSM, PS

412-Groundwater Hydrology – 3 (Same as CE 412 and GEOG 412)
Study of groundwater: occurrence, physical and chemical properties, flow and flow system modeling, relation to rock structure and lithology, contamination of groundwater resources. Prerequisites: GEOG 310, CHEM 113 or equivalents or consent of instructor.
DNSM, PS

419-Science, Experts and Public Policy – 3
Analysis of factors affecting the influence of scientists, planners, and other experts in policy-making. Several cases and controversies will be examined. Prerequisites: ENSC 220 or consent of instructor.

431-Environmental Toxicology - 3 (Same as CHEM 471)
Chemical and biological effects of toxic substances in living organisms at molecular and biochemical levels. Topics include: routes of entry, mechanism of action, effects, antidotes. Prerequisite: CHEM 120a, 120b and BIOL 150; or consent of instructor.

431L-Laboratory Approaches in Environmental Toxicology - 1
Laboratory exercises of common experimental approaches and chemical analysis techniques used in assessing effects of environmental toxicants on different levels of organisms functions. Prerequisite: CHEM 120a, 120b and ENSC 431 or CHEM 471 (or concurrent enrollment) with a grade of D or better, or consent of instructor.
EL

432-Fundamentals of Molecular Toxicology and Pharmacology - 3
Molecular, biochemical, and cellular mechanisms of toxicity, mode of action, metabolism, and interactions of environmental pollutants, toxic chemicals, and drugs. Not for graduate credit. Prerequisites: BIOL 319 or CHEM 471 or ENSC 431 or equivalents; or consent of instructor.

434-Fundamentals of Aquatic Toxicology - 3
Biological effects of aquatic pollution from the molecular to the ecosystem level; uptake, metabolism, excretion, food chain transfer, environmental fate and transport of aquatic pollutants. Not for graduate credit. Prerequisites: BIOL 319 or CHEM 471 or ENSC 431 or equivalents; or consent of instructor.

435-Ecological Risk Assessment - 3
Introduction to science behind environmental policy/regulations. Application of ecology, chemistry, and toxicology to assess present and future pollution risks to populations, communities, ecosystems. Prerequisite: BIOL 365 and ENSC 431 or equivalents; or consent of Instructor.

436-Environmental Epidemiology - 3
Basic biology of microorganisms, characteristics of microbial diseases, epidemiology and infection control, examples of infectious diseases acquired through inhalation, ingestion, and skin mucous membranes. Prerequisite: 220 and 330; or consent of Instructor.

437-Industrial Hygiene - 3
Recognition, evaluation, and control of biological, chemical, and physical hazards in industry that may cause sickness or impaired health to people. Prerequisite: 220 and 330; or consent of Instructor.

440-Sustainable Environmental Practices - 3
Practices that meet the needs of the present generation without compromising the ability of future generations to meet their needs. Prerequisites: 330 and 340; or consent of instructor.

445-Conservation Biogeography – 3 (Same as GEOG 416)
Analysis of biogeography principles and conservation problems. Assess changes in biosphere distributions and extinction due to human activity. Evaluates strategies to maintain biodiversity. Field trips. Prerequisites: GEOG 316 or consent of instructor.
LS

450-Applied Ecology - 3 (Same as BIOL 464)
Applying ecological concepts and principles for solving, predicting and managing current important ecological problems, such as global climate change, conservation, wetland restoration, and environmental remediation. Prerequisite: BIOL 365 with a grade of C or better; or consent of instructor.

465-Aquatic Ecosystems – 4 (Same as BIOL 465)
Biogeochemistry and community structure of aquatic systems. Three lectures one three-hour laboratory per week. Prerequisites: BIOL 151 and CHEM 121b with grades of C or better.
BL, DNSM, EL, LS

466-Terrestrial Ecosystems – 3 (Same as BIOL 466)
Community structure, biogeochemistry and historical development of terrestrial systems. Two lectures one three-hour laboratory per week. Prerequisites: BIOL 220 with a grade of D or better.
DNSM, EL, LS

473-Occupational Health – 3
Concepts and details regarding occupational health. Prerequisite: at least one year of college chemistry.
DNSM, LS

475-Chemical Safety Management – 3
Concepts and details regarding safe use and handling of chemicals as recommended by safety professionals. Prerequisite: at least one year of college chemistry.
BPS, DNSM

477-Industrial Monitoring and Risk Assessment - 3
Principles of health surveillance and monitoring and to assess occupational exposures to contaminants and non-chemical factors. Prerequisite: 220 and 330; or consent of Instructor.

490-Senior Assignment in Environmental Sciences - 1
Demonstration of proficiency in environmental sciences. Not for graduate credit. Prerequisite: Senior standing.

491-Readings in Environmental Science – 1 to 4
Coordinated readings with faculty in the areas of science, politics, law, education, technology and other environmental areas.

495-Special Topics in Environmental Sciences - 1 to 3
In-depth examination of components of one specific environmental problem. May be repeated to a maximum of 6 hours provided no topic is repeated.

497-Environmental Health Practicum - 1 to 3
Internships in non-governmental or governmental organization, providing job experience for a career as an environmental health professional. Environmental Health majors only. Prerequisite: Senior standing.
Environmental Science (ENSC)

498-Senior Project in Environmental Sciences - 1
Senior research, in which students work intensively on individual or group research projects. Background information, data collection, data analysis, integration, and interpretation. Prerequisite: Senior standing.

499-Research in Environmental Sciences – 1 to 3
Research projects will be conducted in research facilities of faculty members. Research topics can include environmental problems in Biology, Chemistry, Education, Policy and Technology and Assessment. Prerequisites: ENSC 210 and 220 or consent of instructor.

Finance (FIN)

320-Financial Management and Decision Making – 3  FSM
Introduction to financial decisions; tools, models. Valuation; capital budgeting; capital structure. Operating decisions and other long and short-term applications. Prerequisites: ACCT 200 with a grade of C or higher and MS 251 with a grade of C or higher (accounting, CMIS, economics or finance, and business administration majors.)

341-Topics in Finance - 3
Selected topics in finance. May be repeated to a maximum of 6 hours provided that no topic is repeated. Prerequisite: 320 with a grade of C or higher (accounting, CMIS, economics or finance, and business administration majors).

344-Financial Markets - 3 (Same as ECON 344)  S
Functions and practices of domestic and international debt markets; recent structural changes. Asset securitization; relationships across financial markets. Management of financial intermediaries. Prerequisite: 320 with a grade of C or higher (accounting, CMIS, economics or finance, and business administration majors).

360-Principles of Insurance - 3
Theoretical and applied concepts underlying individual life and health insurance; annuities and property; assessing risk and calculation of premiums. Prerequisite: 320 with a grade of C or higher (accounting, CMIS, economics or finance, and business administration majors).

400-Quantitative Methods for Economic and Business Analysis - 3 (Same as ECON 400)
Applications of mathematical tools to economic and business analysis; emphasis on using calculus and linear algebra in economic and business models. Prerequisites: ECON 301 and 302 or consent of instructor and MS 251 with a grade of C or higher, admission to the School of Business.

415-Econometrics – 3 (Same as ECON 415)  F
Empirical Research Methodology and Ethics. Hypothesis testing and predicting with OLS regression. Estimation with violations of classical assumptions. Multicollinearity problems; dummy variables; model specification. Will not count toward MA or MS in Economics and Finance. Prerequisites: ECON 301 and ECON 302 or consent of instructor and MS 251 with a grade of C or better, admission to School of Business.

417-Business Forecasting - 3 (Same as ECON 417)  S
Survey of methods to forecast economic and financial conditions and markets for individual products, sectors, or regions. Time series, indicator, econometric, judgmental, and Box-Jenkins techniques. Satisfies research requirement for business programs. Will not count toward MA or MS in Economics and Finance. Prerequisites: ECON 301 and ECON 302 or consent of instructor and MS 251 with a grade of C or better, admission to School of Business.

420-Problems in Corporate Finance - 3  FS
In-depth development of analytical decision models; basic and advanced corporate financial theory and application to business and industrial settings. Will not count toward MA or MS in Economics and Finance. Prerequisites: 320 with a grade of C or better or ACCT 312 with a grade of C or better, admission to School of Business.

430-Portfolio Analysis - 3  FSM
Portfolio theory, equity valuation models and portfolio performance evaluation; structure of equity markets; effect of taxes and inflation; bond analysis and portfolio immunization; mutual funds. Satisfies research requirement for business program. Will not count toward MA or MS in Economics and Finance. Prerequisites: 320 or 420 with a grade of C or better, admission to School of Business.

431-Derivative Securities – 3  F
Introduction to derivatives; options, forwards, futures, and swaps; trading of derivatives and the arbitrage relationships; pricing of derivatives on equities, debt, commodities and foreign exchange. Prerequisites: 320 or FIN 527, admission to School of Business.

435-Real Estate Finance and Investment - 3
Fundamental concepts, investigation and evaluation of real estate assets. Single residence; multiple dwellings; commercial properties. Applications based on financial theory and methodology. Prerequisites: 320, admission to School of Business.

440-Financial Institutions - 3  S
Financial management of financial institutions: commercial banks, S&Ls, insurance companies, other financial institutions. Asset and liability management. Prerequisites: 320, admission to School of Business.

445-Applied Security Analysis and Portfolio Management - 3
Topics include financial statement analysis; stock valuation; earnings/dividends projections; dividend and asset pricing models; portfolio management; research report writing. Students manage actual investment fund. Prerequisites: 430 with a grade of B or higher. Restricted to senior business economics and finance/business administration; finance students.

450-International Finance – 3 (Same as ECON 450)  FS
International monetary environment and institutions. Determinants of foreign exchange rates and risk management. Valuation and portfolio analysis of international stocks and bonds. Foreign Investment analysis. Prerequisites: 320 with a grade of C or better, admission to School of Business. EGC, II, SS

460-Corporate Financial Analysis and Strategy – 3  FS
In-depth analysis of financial data and stock prices. Study of relationship among financial markets, financial strategy, and welfare of corporate stake holders. Will not count toward MA or MS in Economics and Finance. Prerequisites: 420; admission to School of Business.

470-Sport Financial Management - 3
Financial issues relevant to sports industry. Applying financial analysis in decision making. Will not count toward MA or MS in Economics and Finance. Prerequisite: admission to School of Business.

480-Cases and Problems in Corporate Finance - 3
Use of case analyses to study financial concepts and techniques. Topics include investment decisions, mergers and acquisitions, long-term and short-term financing. Will not count toward MA or MS in Economics and Finance. Prerequisites: 420, admission to School of Business.

490- Independent Study in Finance – 1 to 6
Investigation of topic areas through individual or small group
readings under supervision of faculty member. Will not count toward MA or MS in Economics and Finance. Prerequisites: consent of instructor and department chairperson, admission to School of Business. May be repeated up to a total of 6 hours.

**Fine Arts and Communications (FAC)**

409-Internship in Fine Arts and Communications — 1 to 12
Study, observation, and professional experience with fine art or communication unit or organization; emphasizing interdisciplinary activities not available for credit from any department in the College of Arts and Sciences. Not for graduate credit. Prerequisites: junior or senior status, consent of faculty sponsor.

**Foreign Languages (FL)**

101-Elementary Foreign Language I - 4
Listening, speaking, reading, and writing. Culture of target language country. Lab included.
FL, SKFL

102-Elementary Foreign Language II - 4
Continuation of 101. Lab included. Prerequisite: FL 101 or permission of instructor.
EGC, IC, FL, SKFL

106-Word Analysis: Latin and Greek Roots - 3
Analytic reasoning and logic based upon linguistic word-elements and syntax, practical application to vocabulary building.
BICS, SKLG

111-a-Introduction to Foreign Studies: French - 3
Overview of language, development of literature, cultural institutions of French. Only one FL 111 course may be applied toward the General Education requirement. Foreign language majors may count one FL 111 course in a language other than the major toward General Education.
BHUM, EGC, IFAH, IC

111-b-Introduction to Foreign Studies: German - 3
Overview of language, development of literature, cultural institutions of German. Only one FL 111 course may be applied toward the General Education requirement. Foreign language majors may count one FL 111 course in a language other than the major toward General Education.
BHUM, EGC, IFAH, IC

111-c-Introduction to Foreign Studies: Spanish - 3
Overview of language, development of literature, cultural institutions of Spanish. Only one FL 111 course may be applied toward the General Education requirement. Foreign language majors may count one FL 111 course in a language other than the major toward General Education.
BHUM, EGC, IFAH, IC [IAI No. H2 903N]

111-d-Introduction to Foreign Studies: Chinese - 3
Overview of language, development of literature, cultural institutions, of China. Taught in English. Only one FL 111 course may be applied toward the General Education requirement. Foreign language majors may count one FL 111 course in a language other than the major toward General Education.
BHUM, EGC, IFAH, IC

111-e-Introduction to Foreign Studies: The French-Speaking World - 3
Overview of French colonization in Africa, Asia, North America, and the Caribbean, the decolonization experience, and cultural and ethnic diversity in France today.
BHUM, EGC, IFAH, IC

111-f-Latin American Culture - 3
In this class, we will study the representation of childhood in Latin American film and the ways in which young characters are victims/witnesses/social actors in Latin America.

121-Learning Another Language - 3
Systematic methods for learning foreign language presented through lectures and practical exercises.
BICS, DFAH

201-Intermediate Foreign Language I - 4
Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: FL 102 or permission of instructor.
DFAH

202-Intermediate Foreign Language II - 4
Continuation of 201. Lab included. Prerequisite: FL 201 or permission of instructor.
DFAH

220-Brazilian History through Film - 3
This course surveys the history of Brazil from colonial times to the present as represented in Brazilian films released after the 1980s.
BHUM, DFAH, EGC, IC

230-Foundations of Celtic Culture - 3
Overview of ancient Celtic culture from its beginnings to its decline.
DFAH, EGC, IC

330-Celtic Culture: Mythology and Religion - 3
Ancient Celtic divinities and mythology, Druidism, and Christianity.
BHUM, DFAH, EGC, IC

345-Literature in Translation - 3
Works of major authors. May count for major or minor credit in FL with permission of the department and term paper in target language.
DFAH, EGC, IC

350-The Celtic Heroic Age - 3
Survey of Irish and Welsh literature of the Celtic Heroic Age, with emphasis on the Tain and the Mabinogion.
BHUM, DFAH, EGC, IC

390-Readings - 3
Selected works of representative authors in student's field of interest. Offered in French, German, Italian, Russian, Spanish, Latin, Greek. Primarily for students with no foreign language concentration, but may be taken for credit in foreign language concentration with consent of instructor. Prerequisites: 202 in appropriate language offered on campus, consent of instructor.
DFAH

401-Comparative Latin and Greek Grammar - 3
Structural similarities and differences between Latin and Greek as they developed from Primitive Indo-European and as they relate to other Indo-European languages. Not for graduate credit. Prerequisite: consent of instructor.
DFAH

486-Language Learning and the Teaching of Foreign Languages - 3
Practical study of second language acquisition, cognitive variations, instructional methodologies, and student testing in foreign language classroom. Required for state certification of all majors intending to teach foreign languages in secondary schools. Prerequisite: FR/GER/SPAN 301 or consent of instructor.
DFAH

491-Cultural and Language Workshop — 3 to 6
Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, travel-study abroad. Supervised projects in foreign studies. Only for studies other than FR, GER or SPAN. May be repeated to a maximum
of 6 hours provided that no topic is repeated. Prerequisite: advanced or graduate standing.
DFAH, EGC, IC

French (FR)

101-Elementary French I – 4
Listening, speaking, reading, and writing. Culture of French-speaking countries. Lab included.
BICS, FL, SKFL

102-Elementary French II - 4
Continuation of 101. Lab included. Prerequisite: 101 or placement testing.
BICS, EGC, FL, IC, SKFL

104-Elementary French - 8
Intensive instruction in listening, speaking, reading, and writing. Culture of French-speaking countries. Lab included. Equivalent to 101 and 102. Must enroll for all 8 hours credit. Check with department chairperson to determine if course will be offered. EGC, IC, FL, SKFL

201-Intermediate French I - 4
Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: 102, or 104, or placement testing.
BICS, DFAH, FL, SKFL

202-Intermediate French II - 4
Continuation of 201. Lab included. Prerequisite: 201 or placement testing.
BICS, DFAH, FL, SKFL [IAI No. H1 900]

301-Advanced French - 4
In-depth grammar review. Composition and conversation. Lab included. Prerequisite: 202 or consent of instructor.
BICS, DFAH, FL, SKFL

302-Advanced French – 4
Selected topics in grammar, readings, and composition. Lab included. Prerequisite: 301 or consent of instructor.
BICS, DFAH, FL, SKFL

304-Interpretation – 3
Oral translation of selected passages, alternating between English and French; development of precision and clarity in both languages. Prerequisite: 202 or consent of instructor.
BICS, DFAH, HUM

305-Translation – 3
Written translation of selected passages, alternating between English and French; development of precision and clarity in both languages. Prerequisite: 202 or consent of instructor.
BICS, Dist.FAH, HUM

308-French Phonetics – 3
Articulatory exercises to acquire correct pronunciation; difficulties encountered by speakers of American English. Prerequisite: 202 or consent of instructor.
DFAH, HUM

311-Contemporary France – 3
Significant aspects of French culture. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC

312-Quebecois Culture and Literature – 3
Culture, literature, society of Quebec, exploring the distinct identity of this officially French-speaking province, an example of multicultural coexistence in a North American context. Prerequisite: 202.
BHUM, DFAH, EGC, IC

320-Advanced French Conversation – 3
Practice advanced-level conversation. Focus on pronunciation and fluency. Prerequisite: FR 202, minimum grade of D, placement testing or instructor permission.
BICS, DFAH, EGC, HUM, IC

351-Survey of French Literature: Middle Ages through Classicism – 3
Representative prose, poetry, drama; 11th through 17th centuries. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

352-Survey of French Literature: Enlightenment to the Present – 3
Representative prose, poetry, drama; 18th through 20th centuries. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

353-Survey of the French Novel – 3
Selected readings; literary and cultural background. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC

377- French Culture through Cinema – 3
Students develop their French language skills and their knowledge of French culture through discussion and analysis of selected films. Prerequisites: FR 201/202 or placement testing, with minimum grade of C. BHUM, DFAH, EGC, IC

400a,b-Senior Essay in French – 2 each
FM/FS
Supervised (a) research; (b) preparation of an extensive scholarly paper in French. Not for graduate credit. Prerequisite: 202.

402-Business French – 3
Oral and written business expression; specialized terminology and idioms. Not for graduate credit. Prerequisite: 301 or consent of instructor.
BICS, DFAH, EGC, HUM

451-Studies in French Literature: Middle Ages through Renaissance – 3
Literary analysis of prose, poetry, drama; 11th through 16th centuries. Not for graduate credit. Prerequisite: 301 or consent of instructor.
BHUM, DFAH, EGC, IC

452-Studies in French Literature: Classicism through Enlightenment – 3
Literary analysis of prose, poetry, drama; 17th and 18th centuries. Not for graduate credit. Prerequisite: 301 or consent of instructor.
DFAH, EGC, HUM, IC

453-Studies in French Literature: Romanticism to Present – 3
Literary analysis of prose, poetry, drama; 19th and 20th centuries. Not for graduate credit. Prerequisite: 301 or consent of instructor.
BHUM, DFAH, EGC, IC

454-Seminar – 3 to 6
Selected topics in literature or literary criticism. May be repeated to a maximum of 6 hours provided that no topic is repeated.
DFAH, HUM

455-French Drama – 3
Major and typical works.
DFAH, HUM

456-Seminar on Women Writers – 3 (Same as WMST 456)
Fiction, nonfiction, drama, and poetry. Taught in English. For credit in FL, term paper written in French.
BHUM, DFAH, EGC, IC

457-African and Caribbean Literature of French Expression – 3
Literature of various French-speaking nations. Taught in English. For credit in FL, term paper written in French.
BHUM, DFAH, EGC, IC
461- French Stylistics – 3
Writing style: application of stylistics to development of skill in written expression. Advanced work in principles of grammar and composition. Prerequisite: 6 hours of 300-level courses.
DFAH, HUM

491- Cultural and Language Workshop — French – 3 to 6 M
Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, travel-study abroad. Supervised projects in French. May be repeated to a maximum of 6 hours provided that no topic is repeated. Prerequisite: advanced or graduate standing.
DFAH, EGC, HUM, IC

499- Readings in French – 3
Selected areas of language, literature, and culture. Individual work or small groups supervised by one or more members of French faculty. Prerequisites: senior standing.
DFAH, HUM

General Business Administration (GBA)

301- Business Transitions I: Planning for Success - 3 FS
School of Business Orientation; development of professional skills; introduction to and practice of business knowledge, interpersonal skills and integration of knowledge and skills. Prerequisite: Admission to School of Business.

402- Business Transitions II: Commitment Beyond College - 3FS
Transition to professional business environment including job search, graduate school and networking. Reinforcement, reflection and integration of business knowledge and interpersonal skills. Prerequisite: Admission to School of Business.

489- Study Abroad – 0 to 15 FSM
Participation in School’s International Exchange Programs. Credit earned by completion of an approved plan of study at an exchange institution. May be repeated for a maximum of 30 hours for undergraduates only. Prerequisites: appropriate language competency, and approval by director of International Exchange Programs, School of Business.

Geography (GEOG)

111- Introduction to Geography - 3 FS
Examines physical and human geographic principles in order to understand the spatial distribution of both physical attributes and human activities and their interrelationships.
BSS, EGC, EL, ISS, IC

201- World Regions - 3 FSM
Survey of major world areas in terms of population, settlement, and related human occupancy patterns.
BSS, DSS, EGC, IC

202- Natural Resource Management and Sustainability - 3 FSM
Examines the management, use, and sustainability of natural resources, including biodiversity, water, food, soil, and energy sources. Also considers issues in pollution and environmental degradation.
BLG, DNSM

205- Human Geography - 3 FSM
Geographical principles underlying the location and distribution of people and their activities in relation to the environment.
BSS, DSS, EGC, EL, II [IAI No. S4900N]

210- Physical Geography - 3 FSM
Distribution and interrelation of Earth’s physical elements. Selected topics include geodesy, climatology/meteorology, landforms.
BPS, DNSM [IAI No. P1 909]

211- Meteorology - 3 FSM
Introduction to weather controls and elements, their relationship to human activities; analysis and use of weather maps and forecasts.
BPS, DNSM, EL

270- Physical Geography Laboratory – 1 to 2
Introductory laboratory on map interpretation, data analysis, and understanding the distribution and interrelationship of Earth’s physical features such as landforms, water, climate regions and biomes. Two laboratory hours per week for each credit hour. May be repeated to a maximum of 2 credit hours. Prerequisites/Co-requisites: 210, 211, or Consent of Instructor.
BPS, DNSM, EL, LNSM

300- Population Geography - 3 F
Analysis of distribution, density, and migration of people; related demographic theories dealing with environment and various socio-economic aspects. Prerequisite: GEOG 205 with a C or better or consent of instructor.
BSS, DSS, EGC, EL, II

301- Economic Geography - 3
Spatial patterns and distribution of economic activities, interaction processes, location theory. Prerequisite: consent of instructor.
DNSM, EL, PS

314- Climatology - 3 F
Survey of climatic controls and elements, classification systems, and distribution of resultant climatic regions. Relationships between climatic elements and landforms. Prerequisite: 211.
DNSM, PS

315- Geomorphology - 3 S
Processes and structures influencing the shape of the Earth’s surface. Prerequisite: consent of instructor.
DNSM, PS

316- Introduction to Biogeography - 3 S
Survey of spatial and temporal distribution patterns of plants and animals. Includes environmental processes and historical factors affecting these patterns and their value to conservation.
Prerequisite: 202 or 210 or consent of instructor.
DNSM, LS

320- Cartography - 3 FSM
Introduction to the making of maps, properties, design, and production; use of topographic maps. Prerequisite: one year of high school algebra and one year of geometry.
DNSM

321- Quantitative Techniques - 3 FS
Quantitative techniques used in solving geographic problems. The emphasis is on descriptive, inferential and bivariate statistics. Prerequisite: Math 120 or equivalent or consent of instructor.
BICS, DNSM, EL

322- Air Photo Interpretation - 3
Methods and techniques used in interpreting aerial photographs for research in physical and social sciences. Prerequisite: 320 or consent of instructor.

330- Geography of Europe - 3
Physical settings and geographic patterns of human activities with area descriptions of European countries and particular regions stressing human and environmental relationships.
DSS, EGC, IC, SS
331-Geography of the Commonwealth of Independent States - 3
Physical settings and geographic patterns of human activities with area descriptions of particular Soviet regions stressing human and environmental relationships.
DSS, EGC, IC, SS

332-Geography of Africa - 3
Physical settings and geographic patterns of human activities with area descriptions of African countries and particular regions stressing human and environmental relationships.
DSS, EGC, IC, SS

333-Geography of Asia - 3
Physical settings and geographic patterns of human activities with area descriptions of Asian countries and particular regions stressing human and environmental relationships.
DSS, EGC, IC, SS

334-Geography of Latin America - 3
Physical settings and geographic patterns of human activities with area descriptions of Latin American countries and particular regions stressing human and environmental relationships.
DSS, EGC, IC, SS

335-Geography of North America - 3
Examination of physical settings and geographic patterns of human activities in the United States and Canada; descriptions of particular regions stressing human and environmental relationships.
DSS, EGC, IC, SS

401-Geography of Development - 3
Analysis of development in world regions including More Developed Countries and Less Developed Countries. Emphasis on theories of development and issues associated with various levels of development. Prerequisite: consent of instructor.
DSS, SS

402-Cultural Landscape - 3
Identification and analysis, both objective and subjective, of the earth as transformed by human action with emphasis on the contemporary situation. Field trip. Prerequisite: consent of instructor.
BHUM, DSS

403-Advanced Urban Geography - 3
Selected topics in spatial patterns and processes of urbanization. Topics may include: planning, transportation, sustainability, society and culture, health, housing, global cities, and economic functions. May be repeated to a maximum of 9 hours. Prerequisites: 303 with the minimum grade of C or better, or consent of instructor, or concurrent enrollment.
BSS, DSS

404-Medical Geography - 3
This course examines medical geographic principles to understand the diversity of health around the world and the processes connecting them. Prerequisite: 205, Geography major with senior standing or consent of instructor.
HUM

405-Geography of Food - 3
Examination of food production and distribution, the relationship between food and culture from a geographic perspective. Prerequisites: 205 or consent of instructor.

406-Political Geography - 3
Fundamental principles of geopolitics, geostrategic theory, electoral geography, and their application to the United States and other major world regions. Prerequisite: junior or senior standing.
DSS, EGC, IC, SS

407-Spatial Thinking & Behavior - 3
This course examines how people understand, think about, and behave in space. Prerequisite: 205 with a grade of C or better or consent of instructor.
BIC

408-Snow and Ice Processes - 3
This course (1) focuses on the properties, processes and distribution of seasonal and perennial snow; (2) provides an overview of glaciers; (3) and studies snow and ice climatology. Prerequisites: 314 or consent of instructor.
DNSM, PS

410-Soils - 3
Formation processes, classification, distribution, use, problems associated with earth surface materials. Field trip. Prerequisite: ENSC 111 or consent of instructor.
DNSM, PS

411-Hydrology - 3
Hydrologic cycle, major stream systems, uses of water resources and their relationships to quality and future supplies. Prerequisite: Math 120 or equivalent or consent of instructor.
DNSM, PS

412-Groundwater Hydrology - 3
Study of groundwater: occurrence, physical and chemical properties, flow and flow system modeling, relation to rock structure and lithology, contamination of groundwater resources. Prerequisites: college algebra, CHEM 113 or equivalents or consent of instructor.
DNSM, PS

414-Floods, climate and the environment - 3
Examines the nature of floods, the hydrologic, climatic, and anthropogenic factors that lead to floods and the effects of floods on humans and the environment. Prerequisite: GEOG 411 or permission of instructor.
DNSM, PS

415-Animal Geography - 3
Principles of biogeography as applied to animals, focusing on past and present distribution patterns considering environmental circumstances and animal capabilities. Field trips. Prerequisite: 316 or consent of instructor.
LS

416-Conservation Biogeography - 3
Analysis of biogeography principles and conservation problems. Assess changes in biosphere distributions and extinction due to human activity. Evaluate strategies to maintain biodiversity. Field trips. Prerequisite: 316 or consent of instructor.
LS

418-Geographic Information Systems (GIS) - 3
Concepts, basic theory, and principles of GIS using both raster and vector data models in a PC environment. Prerequisite: consent of instructor.
DNSM

419-Thematic Cartography - 3
This course offers an in-depth analysis of cartographic techniques, theories, and their application to the design of maps. Prerequisite: 320 or consent of instructor.
DNSM

420-Interactive and Animated Cartography - 3
Investigate and develop alternatives such as interactive maps and map animation to traditional map representations such as static paper maps. Prerequisite: 320
DNSM

421-Digital Elevation Modeling - 3
Processing of digital elevation models and the generation of 3D renderings with digital orthophotos, satellite imagery, digital raster graphics, and/or other 3D features.

422-Remote Sensing and Digital Image Processing - 3
Concepts of remote sensing including air-photo interpretation,
digital image preprocessing, and classification of satellite-based imagery. Prerequisite: 321 or consent of instructor.

DNSM 423-Computer Mapping - 3
Cartographic design techniques related to computer-aided conversion, analysis, and presentation of data. Includes use of ArcView, symbol perception and map design. Prerequisite: consent of instructor.

DNSM 424-Vector-Based Geographic Information Systems (GIS) - 3
Examination of vector topology, digital map transformation, manipulation, analysis, and composition. Prerequisites: 418 or consent of instructor.

DNSM 425-Raster-Based Geographic Information Systems (GIS) - 3
In-depth study of cell-based (raster) GIS concepts. Includes the development of cell-based GIS models for addressing environmentally related issues. Prerequisites: MATH 120 or 125, GEOG 418 or consent of instructor.

DNSM 426-Field Study – 1 to 6
Field investigation of physical and cultural features of the environment. Prerequisite: advanced standing or consent of instructor. May be repeated to a maximum of 6 hours.

DNSM 427-Internship – 1 to 6
FSM Work experiences in public or private agencies. May be repeated to a maximum of 6 hours. Prerequisite: major with senior standing or consent of instructor.

DNSM 428-Travel Study Course – 1 to 6
Enrichment through travel, supervised study, and readings on areas visited. May be repeated to a maximum of 6 hours.

DNSM 429-Storm Chasing and Assessment Field Course - 3
M Exposes students to the unique environments and hazards associated with local thunderstorms. Students will benefit from lecture and participation in event assessment. Prerequisite: 314, geography major or minor, and instructor’s consent.

DNSM 430-Global Climate Change - 3
Addresses (a) the scope and controls of climate on various scales; (b) climate throughout history; and (c) addresses both contemporary and future global climate change. Prerequisite: GEOG 211, GEOG 314 with grades of "C" or better.

DNSM 431-Web-based Online Mapping - 3
Concepts of web-based online mapping services and map mashups: development of interactive map applications for use on the Internet using HTML, JavaScript, XML and Maps APIs. Prerequisite: 320 with grade of "C" or better or consent of instructor.

DNSM 440-Teaching of Geography - 3
Methods and techniques of teaching geography in primary and secondary classroom situations. Emphasis on teaching devices, illustrative materials, literature. Prerequisite: junior standing.

SS 450-Topics in Geography - 3 to 6
Specific topics in geography based on faculty expertise. May be repeated to a maximum of 6 hours. Prerequisite: Geography major with senior standing or consent of instructor.

SS 451-Topics in Human Geography - 3 to 6
Specific topics in human geography based on faculty expertise. May be repeated to a maximum of 6 hours. Prerequisite: Geography major with senior standing or consent of instructor.

SS 452-Topics in Physical Geography – 3 to 6
Specific topics in physical geography based on faculty expertise. May be repeated to a maximum of 6 hours. Prerequisite: Geography major with senior standing or consent of instructor.

PS 453-Topics in Regional Geography – 3 to 6
Specific topics in regional geography based on faculty expertise. May be repeated to a maximum of 6 hours. Prerequisite: Geography major with senior standing or consent of instructor.

PS 454-Topics in Geographic Techniques – 3 to 6
Specific topics in geographic techniques based on faculty expertise. May be repeated to a maximum of 6 hours. Prerequisite: Geography major with senior standing or consent of instructor.

PS 470-Advanced Physical Geography Laboratory – 2 to 4
Application of field and laboratory methods, from study design to data collection and analysis, used to study the earth's physical features and processes. May be repeated to 4 credit hours. Prerequisite: Consent of instructor.

FSM 490-Tutorial in Geography – 1 to 3
FS Individual and small group conferences with faculty to examine geographic topics. May be repeated to a maximum of 6 hours. Prerequisites: consent of advisor and instructor.

FSM 499-Senior Assignment – 3
Research paper of an approved topic in Geography; required for Graduation. Not for graduate credit. Prerequisite: 321, senior standing.

German (GER)

101-Elementary German I - 4
Listening, speaking, reading, and writing. Culture of German-speaking countries. Lab included.

BICS, FL, SKFL 102-Elementary German II - 4
Continuation of 101. Lab included. Prerequisite: 101 or placement testing.

BICS, EGC, IC, FL, SKFL 104-Elementary German - 8
Intensive instruction in listening, speaking, reading, and writing. Culture of German-speaking countries. Lab included. Equivalent to 101 and 102. Must enroll for all 8 hours credit. Check with department chairperson to determine when course will be offered.

EGC, IC, FL, SKFL 201-Intermediate German I - 4
Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: 102, or 104, or placement testing.

BICS, DFAH, FL, SKFL 202-Intermediate German II - 4
Continuation of 201. Lab included. Prerequisite: 201 or placement testing.

BICS, DFAH, FL, SKFL 301-Advanced German - 4
In-depth grammar review. Composition and conversation. Lab included. Prerequisite: 202 or placement testing.

BICS, DFAH, FL, SKFL 302-Advanced German - 4
Selected topics in grammar, readings, and composition. Lab included. Prerequisite: 301 or consent of instructor.
303 - German Language Structure - 3
Technical aspects of German language. Prerequisite: 202 or consent of instructor.
BICS, DFAH, HUM

304 - German in Commerce and Government - 3
Selections from publications related to German commerce and government. Prerequisite: 202 or consent of instructor.
BICS, DFAH, HUM

305 - Technical German - 3
Contrastive analysis; reading skills in scientific and other technical fields. Prerequisite: 202 or consent of instructor.
HUM

311 - German Culture - 3
Significant aspects of German culture; their development and manifestation in contemporary Germany. Prerequisite: 202 or consent of instructor.
DFAH, EGC, HUM, IC

320 - Advanced German Conversation - 3
Practice in advanced-level conversation. Focus on pronunciation and fluency. Prerequisite: 202, placement testing, or instructor permission.
BICS, DFAH, EGC, HUM, IC

351 - Survey of German Literature: Middle Ages Through Romanticism - 3
Selected readings, literary and cultural background. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

352 - Survey of German Literature: Realism to the Present - 3 S
Selected readings, literary and cultural background. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

353a-c - Survey of a German Genre - 3 each
Selected readings; literary and cultural background. Prerequisite: 202 or consent of instructor.
(a) Poetry-BHUM, DFAH, EGC, IC (b) Novelle-DFAH, HUM (c) Drama-BHUM, DFAH, EGC

400a,b - Senior Essay in German - 2 each F/S
Supervised (a) research; (b) preparation of an extensive scholarly paper in German. Not for graduate credit. Prerequisite: 202.
DFAH

401 - Development of German Structure - 3 S
Historical development of German language; how modern German structure came into being in standard and main dialects. Not for graduate credit. Prerequisite: 202 or consent of instructor.
BHUM, DFAH

402 - Business German - 3
Everyday business practices in Germany. Specialized vocabulary, correspondence, cultural background. Not for graduate credit. Prerequisite: 301 or consent of instructor.
BICS, DFAH, HUM, EGC

411 - German Civilization - 3
German-speaking areas of the world; anthropological and social aspects of various cultures. Prerequisite: senior standing in German.
DFAH, EGC, HUM, IC

452 - Faust - 3
Goethe's masterpiece, its background, meaning, and impact on world literature; life and times of Goethe. Prerequisite: 301 or consent of instructor.
BHUM, DFAH, EGC, IC

453 - Seminar in German Literature - 3
Selected German literary masterpieces organized by theme, historical period, literary movement, or other criteria. Not for graduate credit. Prerequisite: 301 or consent of instructor.
BHUM, DFAH, EGC, IC

454 - Seminar - 2 to 4
Critical and analytical study of selected topics of German literature or literary criticism. May be repeated to a maximum of 4 hours provided that no topic is repeated.
BHUM, DFAH

491 - Cultural and Language Workshop-German - 3 to 6 M
Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, travel-study abroad. Supervised projects in German studies. May be repeated to a maximum of 6 hours provided that no topic is repeated. Prerequisite: Advanced or graduate standing.
DFAH, EGC, IC

499 - Readings in German - 3 to 6
Selected areas of German language, literature, and culture. Individual or small group work supervised by one or more members of German faculty. May be repeated to a maximum of 6 hours provided no topic is repeated. Prerequisites: senior standing and consent of instructor.
DFAH, HUM

Greek (GRK)

101 - Introduction to Greek - 4
Grammar and vocabulary of ancient Greek within context of Greek culture. Reading knowledge through texts adapted from classical authors. Lab included.
FL, SKFL

102 - Introduction to Greek - 4
Continuation of 101. Lab included. Prerequisite: 101.
EGC, IC, FL, SKFL

201 - Intermediate Greek - 4
Development of reading facility. Reading of selected masterpieces in history, poetry, and philosophy. Lab included.
Prerequisite: 102 or equivalent.
DFAH, FL, SKFL

202 - Intermediate Greek - 4
Continuation of 201. Lab included. Prerequisite: 102 or equivalent.
DFAH, FL, SKFL [IAI No. H1 900

499a-f - Readings in Ancient Greek - 4 each
Development of lexical and structural competence; (b) Continuation of a; (c) Selected masterpieces of literature; (d) History; (e) Poetry; (f) Philosophy. A, b, c must be taken in sequence and are prerequisites to d, e, or f, which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Prerequisite: for a, b, c, consent of instructor.
DFAH, HUM

History (HIST)

101 - Introductory Topics in History - 3 FSM
Introductory topics such as: history of a specific geographic area, study of a single biographical figure, or thematic approaches to studying the past.
BSS, DSS

111a, b, c - History of Western Civilization - 3 each FS
(a) the western world from prehistory to the late Antiquite period (500 AD); the western world from the Medieval period to the Enlightenment (500-1715); (c) the western world from the Enlightenment to the present (1715-Present).
ISS or DSS, IC; BSS, EL, EGC; a (IAI No. S2902) b (IAI No. S2902 or S2903) c (IAI No. S2902 or S2903).

112a,b - World History - 3 each FS
(a) Topics in world civilization before 1500; (b) Topics in world civilization 1500 to the present. Required for students seeking
History (HIST)

teacher certification (K-12).
BHUM, DSS, EGC (a) [IAI No. S2 912N], IC (b) [IAI No. S2 913N], II

130a-History of Black America to 1865 - 3
This course examines the experiences of African Americans, from their origins in Africa to the end of the Civil War.
BSS, DSS, EL, EUSC, IGR

130b-History of Black America: 1865 to the present - 3
This course examines the diverse historical experiences of African Americans beginning with the period following the Civil War and continuing until the present time.
BSS, DSS, EL, EUSC, IGR

200-United States History and Constitution: to 1877 - 3 FSM
Political, social, economic and constitutional development.
BSS, DSS, EL, EUSC [IAI No. S2 900]

201-United States History and Constitution: 1877- Present – 3 FSM
Political, social, economic and constitutional development.
BSS, DSS, EL, EUSC [IAI No. S2 901]

300-Special Topics - 3 FS
Single topic from areas of political, economic and social history. May be repeated to a maximum of 6 hours provided no topic is repeated.
DSS, SS

301-Historical Methods - 3 FS
Introduction to historiography, philosophy of history, historical methodology. Required of all undergraduate students with major in history. Prerequisite: junior standing and at least two 300-400 electives (HIST 300-499) completed. History majors only.
SS

302-Ancient Egypt - 3
Civilization of Ancient Egypt from prehistoric through Greco-Roman period.
BSS, DSS, EGC, IC

304-History of Greece- 3
From origins of ancient Greece to 30 B.C.
BSS, DSS, EGC, IC

305a,b-Comparative Asian Civilizations – 3 each
(a) Antiquity to the 16th Century (b) From 1600 to Present. A historical and comparative exploration of major Asian civilizations, including China, India, Japan, this course will focus on the evolution of critical religious, philosophic, economic and political institutions. Prerequisites: ENG 101; ENG 102.
BSS, DSS, EGC, IC

306a, b-History of Rome – 3 each
(a) Republic from origins to 30 B.C.; (b) Principate, 30 B.C. – A.D. 476
BSS, DSS, EGC, IC

308a-Imperium and Christianity: Western Europe 300-1000 C.E. – 3
Rise of Christianity and formation of medieval society and institutions in Western Europe from Constantine to decline of Carolingian.
BHUM, DSS, EGC, IC

308b-Medieval Conquests and Kingdoms, 1000-1500 C.E. – 3
Diversity of medieval experience in West, from the rise of papacy and Crusades to Hundred Years’ War.
BHUM, DSS, EGC, IC

309-Topics in Applied Historical Methods – 3
Special topics that emphasize the skills and methods used by historians. Specific content, skills, and methods dependent on topic.
BSS, DSS

310-Careers in History– 3
Explores various careers and settings in which historians work, evaluates opportunities in the field of history, and contributes to community history projects.
BSS, DSS

320-The Renaissance in Europe – 3
Origins and growth of the Renaissance after 1350 in the Italian city-states. Its subsequent spread to Northern Europe.
BHUM, DSS, EGC

321-Reformation Europe, 1500-1648 – 3
History of 16th-century Europe; social, political and cultural dimensions of Protestant and Catholic Reformations, witch-hunts, scientific revolution and wars of religion.
BHUM, DSS, EGC

323-Social Science Pedagogy – 3 FS
Designed only for History, Political Science, and Geography Education majors seeking secondary social science certification. Prerequisites: HIST 112a and 112b; HIST 200, 201, or 130, and must receive a minimum grade of “C.” SS

326-Antebellum American History, 1830-1860 – 3
A survey of the cultural, political, and social history of the United States in the thirty years before the Civil War.
BHUM, DFAH

330-History of Illinois – 3
Political, social, economic and cultural history from earliest times to present.
BSS, DSS, EUSC

334a-The Westward Movement/Am Hist to 1845 – 3
Immigration, settlements, exploitation of American land since European conquest. Influence on national, economic, political, cultural and social policies: to 1845.
BSS, DSS

334b-The Westward Movement/Am Hist since 1845 – 3
Immigration, settlements, exploitation of American land since European conquest; influence on national, economic, political, cultural and social policies: since 1845.
BSS, DSS

337-The Coming of the Civil War – 3
In-depth examination of origins and causes of the sectional conflict that led to the American Civil War, with a focus on politics and slavery.
BSS, DSS, EUSC, IGR

338-The Civil War and Reconstruction – 3 F
Explores the Civil War Era, 1848-1877, including causes, course, and consequences of the war. Major topics include slavery, emancipation, politics, military campaigns, and Reconstruction.
BSS, DSS, EUSC, IGR, SS

Civil Rights and Black Power Movements’ dismantling of the old structure of American apartheid. Its transformation into advanced racism. Prerequisites: 130 or junior standing.
BSS, DSS, EUSC, IGR

350a-Making of Modern America, 1900 - 1945 - 3 (Same as HIST 434a)
Politics, culture and economics in twentieth-century America, 1900 - 1945.
BSS, DSS, EUSC, IGR

350b-Making of Modern America, 1945-Present - 3 (Same as HIST 434b)
Explores the culture, politics, society, and economy of the United States from 1945 to the present.
BSS, DSS, EUSC
418-World War II – 3
Survey of causes and multiple aspects of the Second World War; emphasis on military operations.
BSS, DSS

420a,b-European Social, Cultural and Intellectual History – 3 each
(a) Renaissance to French Revolution; (b) French Revolution to present. Advanced survey of European intellectual/cultural history.
BSS, DSS, EGC (a) IC, (b) II

422a-c-Late Modern Europe – 3 each
(a) Vienna Congress to the Great War; (b) World War I through World War II; (c) Europe Since World War II. Prerequisites: (a) 111a, (b) 111b, (c) 111b; or consent of instructor.
BSS, DSS, EGC (a,b) IC (c) BHUM, II

423b-Indian Wars, Progressives and Casinos; Native American History from Removal to Present – 3
Native American History to 1840. Investigation of disparate cultures in contact with blend of historical and anthropological methods and materials with emphasis on the Indian world view.
BHUM, DSS, EGC, EUSC, IGR

424-Topics in East European History – 3
Selected topics such as the rise of nationalism, World War I, the Cold War, etc.
BSS, DSS, EGC, II

425-History of American Ideas 1620-1865 – 3
History of American Ideas 1620-1865 traces ideological conflicts and compromises that created the United States through the Civil War.
BHUM, EUSC

427-History of South Africa - 3
Course will familiarize students with the major themes in the history of South Africa largely focusing on the period of sustained Western contact from 1652 to present. Prerequisite: 301.
BSS, DSS, EGC, EUSC, II, IGR

428-Topics in European Women's History - 3 (Same as WMST 428)
Selected topics in women's history. Course varies from semester to semester. May be repeated to a maximum of 9 hours provided no topic is repeated.
BHUM, DSS, EGC, II
429-History of American Ideas 1865-Present - 3
History of American Ideas 1865-Present traces ideological conflicts and compromises that created the United States after the Civil War.
BHUM, EUSC

430-American Colonial History - 3
Founding of colonies in British America and their development to 1763.
BSS, DSS

431-American Revolution and Constitution - 3
Conflicting forces and events that led to the American Revolution, and to the Constitution.
BSS, DSS

440-Women in American Social History – 3 (Same as WMST 440)
Women from various social classes, ethnic and racial groups, geographic regions. Social institutions: family, church, schools, etc. Colonial era to present.
BSS, DSS, EUSC, IGR

442-The Black Urban Experience – 3
Social, economic, and political history. Emphasizes community life and development, as well as race relations.
BSS, DSS, EUSC, IGR

444-The Civil War Era – 3
A seminar exploring in-depth questions related to the era of the American Civil War. Seminar will emphasize shared inquiry through research and historiographical methods.
BSS, DSS, EUSC, IGR

445-American Masculinity – 3
American masculinity is a gender history that explores the different manifestations of manhood as it has been constructed by Americans from the seventeenth century to the present.
DFAH, EUSC, HUM, IGR

447-Oral History – 3
Workshop course designed to provide practical experience conducting oral history interviews and familiarize you with major issues in oral history.
BSS, EUSC, DSS

451-Native Americans Encounter Lewis and Clark – 3
Investigates the Lewis and Clark expedition from American and especially Native American points of view.
BHUM, DSS, EUSC, IGR

452-Native American Women – 3 (Same as WMST 452)
Investigates Native American gender roles, particularity women’s roles, from an ethnohistorical perspective.
BHUM, DSS, EUSC, IGR

454-History of the Arab-Israeli Conflict – 3
Origins and development of Zionism and Palestinian Nationalism. Relations between Israel, Palestinians and the Arab States.
BSS, DSS, EGC, II

455-Women and Gender in Islamic History – 3
Examines the role of women in Islamic history from the pre-Islamic Middle Eastern context through the establishment of classical Islamic family law to contemporary reforms.
BSS, DSS, EGC, IC

460-History of Mexico – 3
Mexican history from the winning of independence to present. Special attention will be devoted to relations with the U.S.
BSS, DSS, EGC, I

461-History of Cuba – 3
The history of Cuba since 1800, with special emphasis on the political, economic, and cultural development of the island.
BSS, DSS, EGC, IC, II

462-History of Brazil – 3
The history of Brazil since 1800 with a focus on the political, economic, and cultural development of the nation.
BSS, DSS, EGC, IC, II

470-Public History – 3
Explores how history is communicated and practiced in public arenas, including museums, monuments, documentaries, cemeteries, and historic buildings.
BSS, DSS

490-Internship in History – 3 to 6
Professional experience in aspects of historical research, preservation, exhibition, and interpretation. May be repeated to a maximum of 6 hours. Prerequisite: permission only.

Honors Scholars (HONS)

100- Honors Pro-seminar: Learning, Working, Living - 1
Examination of the nature of liberal education and its relation to work and living. Student-led discussion of issues. For Honor Scholars only.

120-Honors New Freshman Seminar: Big Questions and the Spirit of Inquiry - 3
In-depth examination of big questions of enduring human significance. Must be taken concurrently with HONS 121. Satisfies the NFS requirement. For Honors Scholars only.

121-Honors Rhetoric - 3
Advanced introduction to the practices and techniques of written and oral persuasion through different venues. Must be taken concurrently with HONS 120. For Honors Scholars only.

200-Honors Pro-seminar: Globalization - 1
Examination of the world, its diversity and unevenness, providing a structure to link the local and the global. Student-led discussion of issues. Prerequisite: HONS 100 with a grade of C or better. For Honors Scholars only.

250-Honors Seminar: Connections - 3
Examines connections between widely divergent times, spaces, cultures, forms of knowledge. Prerequisite: HONS 120 and 121 with grades in both of C or better, or consent of Program Director. Required of all transfer scholars. For Honors Scholars only.

300-Honors Pro-seminar: Special Topics - 1
Examination of a topic of pressing concern; topic chosen bi-annually by honors students. Student-led discussion of issues. Prerequisite: HONS 100 with a grade of C or better. Course repeatable up to 4 credit hours. For Honors Scholars only.

320A-Honors Interdisciplinary Seminar: Problems in Humanities, Arts, and Social Science – 3
Seminar examining an enduring question or a pressing contemporary problem in the humanities/arts/social sciences from an interdisciplinary perspective. Provides students an opportunity to apply their knowledge to the problem. Course repeatable up to 6 credit hours.

320B-Honors Interdisciplinary Seminar: Problems in Physical Sciences, Life Sciences, and Technology – 3
Seminar examining an enduring question or a pressing contemporary problem in the humanities/arts/social sciences from an interdisciplinary perspective. Provides students an opportunity to apply their knowledge to the problem. Course repeatable up to 6 credit hours.

420-Honors Independent Study – 1 to 9
Advanced, independent study or research of specific interdisciplinary or integrative topics. May be repeated for up to 9 hours. Not for graduate credit. Requires approval of Director of University Honors Program.
Humanities (HUM)

234L-Digital Humanities and Social Sciences Lab – 1
This lab for students in the Digital Humanities and Social Sciences Minor runs concurrently with CS 234 and introduces students to the methods and skills of DHSS. Must be taken concurrently with CS 234.

310a,b-Esperanto – 3 each
Reading, writing, speaking, and understanding the international language developed by Zamenhof. Must be taken in sequence. DFAH, DSS, EGC, II

400-Symposium in the Humanities – 3
Subjects not covered by the standard curriculum. May be repeated up to 6 hours. Credit toward concentration at the discretion of the Department. Prerequisite: senior standing or consent of the instructor. DFAH, DSS

495-Digital Humanities and Social Science Internship – 3
In this internship, required of the Digital Humanities and Social Sciences Minor, students work 10-14 hours per week with an approved internship partner. May be repeated up to 9 hours. Declared Minors only. Prerequisite: A grade of C or above in CS 234, a passing grade in HUM 234L, and consent of instructor.

Industrial Engineering (IE)

106-Engineering Problem Solving – 3
Fundamental steps of problem definition, formulation, and solution approaches universal in all engineering disciplines. Basic skills of reasoning and logic. Case studies and small projects.

198-Industrial/Manufacturing Engineering Work Experience I - 0 SM
Supervised work experience with agency, firm, or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours.

199-Industrial/Manufacturing Engineering Co-Operative Education I - 0 SM
First period of a five year supervised academic/work experience with an agency or firm that uses engineers. Graded as satisfactory or unsatisfactory. Prerequisites: Sophomore standing in Industrial Engineering and consent of the chairperson/program director.

298-Industrial/Manufacturing Engineering Work Experience II – 0 FSM
Supervised work experience with agency, firm, or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: 198.

399-Industrial/Manufacturing Engineering Cooperative Education III – 0 SM
Third period of a five year supervised academic/work experience with an agency or firm that uses engineers. Graded as satisfactory or unsatisfactory. Prerequisites: Sophomore or junior standing in Industrial Engineering and consent of the chairperson/program director.

415-Operations Research Deterministic Models - 3 (Same as OR 440)
Linear programming: problem formulation, simplex algorithm, transportation and network problems, duality theory, sensitivity theory. Prerequisites: MATH 250 or consent of instructor.

427-Knowledge-Based Systems - 3 (Same as ECE 427)
Engineering-oriented perspective on artificial intelligence (AI) technology. General AI concepts, specifically knowledge-based (expert) systems and computational intelligence applied to engineering problem-solving. Prerequisites: Basic knowledge of computer programming.

430-Managing Engineering and Technology - 3
Management functions of planning, organizing, motivating and controlling, and analysis of application of these functions in engineering research, design, production, technical marketing and project management. Prerequisites: Junior or senior standing in Industrial Engineering.

431-Project Analysis and Control – 3
Examines the theories and best practices for completing projects on time, on budget, and to specification. Prerequisites: Junior or senior standing in Industrial Engineering.
445-Foundations of Financial Engineering – 3 F
Financial engineering integrates computational intelligence, mathematical finance, numerical methods and computer simulations for pricing, trading, hedging and investment decisions. Prerequisites: IE 345 and STAT 380 with a grade of C or better.

451-Methods Design and Work Measurements – 3 S
Design of work systems. Methods and techniques employed in measuring work. Current philosophy underlying improvement in work methods and procedures used to measure work performed. Prerequisite: STAT 380 or equivalent or consent of instructor.

458-Human Factors Engineering – 3 S
Analysis of the limitations of humans in man-machine systems to increase productivity and meet physiological needs of system participants. Principles are applied through design problems. Prerequisite: IE 451 or consent of instructor.

461-Operations Research Stochastic Models – 3 (Same as OR 441) S
Probability models, elementary queuing theory with single or multiple servers. Markov processes and models, decision theory. Prerequisites: STAT 380 or STAT 480a.

463-Reliability Engineering – 3 (Same as STAT 484) S
Probabilistic models for the reliability of coherent systems. Statistical models for lifetimes of components and repairable systems. Reliability estimation and prediction. MIL standards. Prerequisite: STAT 480b or STAT 380 each with a grade of C or better, or consent of instructor.

464-Design and Analysis of Experiments with Applications to Science and Engineering – 3 (same as STAT 481) S
Designs for experimentation and statistical inference with engineering and science applications. One-way, two-way classifications, complete and incomplete block designs. Factorial and fractional factorial designs. Prerequisite: STAT 380 with a grade of C or better or consent of instructor.

465-Design and Control of Quality Systems – 3 (Same as STAT 488) S
Statistical process control techniques, determination of process capability, quality control using variable and attribute control charts, specs and tolerances, control variation, and acceptance sampling. Prerequisite: STAT 380 or consent of instructor.

466-Engineering Metrology – 3 S
Exposes the student to the principals associated with dimensional measurement, inspection, measurement systems analysis, and geometric dimensioning and tolerancing. Prerequisites: IE 370 or consent of instructor.

467-Total Quality and Taguchi Methods – 3 S
Apply concepts and methods of quality improvement including total quality, quality function deployment, design of experiments, quality loss function, etc. Case studies and software tools. Prerequisites: IE 465 or consent of instructor.

468-Operations Research – Simulation – 3 (Same as OR 442) F
Design of simulation models using a high level simulation programming language. Applications in production, inventory, queuing, and other models. Prerequisites: IE 461 or OR 441 or STAT 380 or consent of instructor.

470-Manufacturing Systems – 3 S
Design, control and analysis of manufacturing systems in various configurations such as single and multiple stations, manual and automated assembly lines, flow and job shop. Prerequisites: IE 370, STAT 380, or equivalent and upper-division standing in Industrial Engineering or consent of instructor.

475-CAD/CAM/CAE (Computer Aided Design, Manufacturing and Engineering) – 3 S
Advanced 3-D solid and assembly modeling and analyses in computer-integrated design and manufacturing environments, advanced parametric and associative modeling. Prerequisites: IE 375 or consent of instructor.

476-Plantwide Process Control – 3 F
A treatment of techniques in automated control. Digital, analog, open and closed loop controls are discussed. Students gain experience with PC data acquisition and control. Prerequisites CS 145 and ECE 210.

477-Computer-Integrated Manufacturing Systems – 3 (2 hours lecture, 2 hours laboratory). Application of robot theory integrated with automated manufacturing systems. Emphasis on design laboratory exercises. Prerequisites: IE 470, IE 476; CS 145 or equivalent; and senior standing in Industrial Engineering or consent of instructor.

478-Industrial Robotics – 3 S
Analysis of industrial robots focusing on the kinematics, dynamics, control and trajectory planning and their applications for real-life problems through hands-on exercise. Prerequisites: IE 370.

480-Tool Engineering – 3 F
Covers topics including locating/orientation principles, clamping, positioning and concepts required to design and fabricate tooling for machining, joining and bulk deformation processes. Prerequisites: IE 345 (or concurrent), IE 370.

482-Manufacturing Engineering Design – 3 F
Topics include tolerancing, material selection, cost estimation, process planning, product fabrication and activities required to bring product from conceptual design through manufacture. Prerequisites: IE 345 (or concurrent), IE 370 or consent of instructor.

483-Production Planning and Control– 3 (2 hours lecture, 2 hours laboratory)
Development and applications of models and techniques for designing integrated production systems to manage material, service, and information flows in response to fluctuating market demands. Prerequisites: Senior standing in Industrial Engineering or consent of instructor.

484-Facilities Planning – 3 F
Theory and methods of facilities layout and planning emphasizing activity relationships, space requirements, materials handling and storage, plant layout and facility location problems. Prerequisite: IE 415 and upper-division standing in Industrial Engineering or consent of instructor.

488-Lean Production Systems – 3 S
An integrated and holistic approach to efficient and synchronized production of goods and/or services with emphasis on work organization, manufacturing flow, process control, lean metrics, lean logistics and value stream mapping tools and techniques for lean manufacturing implementation. Prerequisite: IE 483 or consent of instructor.

490-3 Integrated Engineering Design – 3 S
Individual/group laboratory or industrial projects of a research, design, or development nature which apply to engineering systems. Prerequisites: Senior standing in Industrial Engineering and consent of instructor.

492-Special Topics in Industrial Engineering – 1-6 FM
Selected topics of current interest in industrial engineering and related fields. May include individual research projects for students with honors standing. Prerequisites: Senior standing in Industrial Engineering and consent of instructor.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructional Technology (IT)</td>
<td>100</td>
<td>Digital Learning in the University</td>
<td>This course focuses both on digital production skills and learning strategies that enable students to learn more effectively in today's university. BICS</td>
</tr>
<tr>
<td>300</td>
<td>Digital Learning and Communication for Educators</td>
<td>3 FS</td>
<td>The integration of digital tools into the K-12 curriculum. Focuses on related instructional and communication strategies, as well as various digital tools. Prerequisites: CIED 100 with a grade of C or better. BICS</td>
</tr>
<tr>
<td>410</td>
<td>Media in Instruction</td>
<td>3</td>
<td>Designing lessons with multi-sensory approach. Demonstrations and hands-on experiences with audio, video projection, and computer equipment. Emphasis on software evaluation and utilization.</td>
</tr>
<tr>
<td>430</td>
<td>Computer-Based Publishing and Instruction</td>
<td>3 S</td>
<td>Opportunities to work with various computer hardware and software systems to prepare instructional materials. Emphasis is placed on design and production of effective instructional materials.</td>
</tr>
<tr>
<td>435</td>
<td>Producing Instructional Materials</td>
<td>3</td>
<td>Development of instructional products that integrate various digital media. Emphasis on production, visual communication, graphics, authoring environments and evaluation of instructional software.</td>
</tr>
<tr>
<td>442</td>
<td>Media Selection</td>
<td>3</td>
<td>Analysis and criteria for selecting aids and reviewing sources. Includes principles and theories of library media selection, assessment and policy for library media collection and development. Prerequisite: Permission of instructor.</td>
</tr>
<tr>
<td>443</td>
<td>Instructional Media for Children and Young Adults</td>
<td>3</td>
<td>Media for preschool children and young adults. Includes comparison and evaluation of major writers, artists, illustrators and designers of media and identification of established genres. Prerequisite: Permission of instructor.</td>
</tr>
<tr>
<td>448</td>
<td>Cataloging for School Librarians</td>
<td>3</td>
<td>Principles and skills of cataloging all types of materials, including the use of bibliographic records, Dewey Decimal classification, and Library of Congress Subject Headings. Prerequisite: Permission of instructor.</td>
</tr>
<tr>
<td>450</td>
<td>Using Video for Instruction</td>
<td>3</td>
<td>Instructional television as a medium for learning. Emphasis on delivery systems, including commercial, public, and satellite programs, and on teacher-produced instructional sequences.</td>
</tr>
<tr>
<td>481</td>
<td>Computers in Education: Theory and Practice</td>
<td>3 F</td>
<td>Research on and effective methods for using computers in an educational setting and a systematic framework for integrating computers into the curriculum.</td>
</tr>
<tr>
<td>486</td>
<td>Web Design for Instruction</td>
<td>3 S</td>
<td>Web design concepts for educational settings, including usability concepts, Web style criteria, interaction and instructional strategies and legal/ethical issues related to Web development.</td>
</tr>
<tr>
<td>490</td>
<td>Special Topics</td>
<td>1 to 6</td>
<td>Varied content. Topics of immediate concern in instructional technology field. May be repeated up to 6 hours as long as no topic is repeated.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Integrative Studies (INTG)</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>Foundations of Integrative Studies</td>
<td>3</td>
<td>Designed to introduce students to the Integrative Studies degree as well as the process of integrative/interdisciplinary study and research.</td>
</tr>
<tr>
<td>499</td>
<td>Senior Assignment</td>
<td>3</td>
<td>Directed study, under the supervision of two faculty members, toward completing the capstone experience. The capstone project can take various forms that include, but not limited to, a research paper, a research presentation, or creative activities. Prerequisites: INTG 300 with a grade of C or better.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Interdisciplinary Studies (IS)</th>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Mathematics and Politics</td>
<td>3</td>
<td>An exploration of political structures (such as social choice, apportionment, yes/no voting, conflict, or polling) from the perspectives of mathematics and political science. IS</td>
</tr>
<tr>
<td>302</td>
<td>African-American Music and the Struggle for Freedom</td>
<td>3</td>
<td>Study of the various styles of African American music in relation to civil rights and other historical events that shaped African American and American culture (Music and History). Prerequisite: junior standing. IS</td>
</tr>
<tr>
<td>303</td>
<td>The Greatest Motion Pictures</td>
<td>3 M</td>
<td>An in-depth view of the films that have shaped motion picture history from the perspectives of the Theater and Mass Communications disciplines. IS</td>
</tr>
<tr>
<td>304</td>
<td>World Mythology</td>
<td>3</td>
<td>An exploration of aspects of the physical environment and human experience from the viewpoints of classical mythology and contemporary science. Prerequisite: Junior standing. IS</td>
</tr>
<tr>
<td>305</td>
<td>Native American Studies</td>
<td>3 SM</td>
<td>An examination of Native American studies from multiple disciplinary perspectives, such as anthropology, archaeology, history, philosophy, and/or political science. Prerequisite: Junior standing. IS, EUSC, IGR</td>
</tr>
<tr>
<td>309</td>
<td>Cultural History of Popular Music</td>
<td>3 S</td>
<td>Through listening skills and historical analysis, explores the major local and global genres of popular music in relation to their cultural contexts, c.1930-present. Prerequisite: Junior standing. IS, EUSC</td>
</tr>
<tr>
<td>319</td>
<td>Disability in America: Historical and Contemporary Issues</td>
<td>3</td>
<td>This course will provide an overview of important historical and contemporary issues related to persons with disabilities in the United States.</td>
</tr>
<tr>
<td>320</td>
<td>The History and Chemistry of Beer and Spirits</td>
<td>3</td>
<td>The production and consumption of beer and spirits have a history that shapes American society, culture, and economics today. Will use the production and consumption of beer and spirits as a way to study chemistry and history in an interdisciplinary fashion. Prerequisite: Junior and senior standing. (Chemistry/History)</td>
</tr>
<tr>
<td>321</td>
<td>Ethics, Biology, and Society</td>
<td>3</td>
<td>A critical examination of some main ethical problems raised by contemporary biological science. Examples include genetic screening and testing, in vitro fertilization, and resource allocation. (Biology/Philosophy). IS</td>
</tr>
<tr>
<td>322</td>
<td>Ethics, Biology, and Society</td>
<td>3</td>
<td>A critical examination of some main ethical problems raised by contemporary biological science. Examples include genetic screening and testing, in vitro fertilization, and resource allocation. (Biology/Philosophy). IS</td>
</tr>
</tbody>
</table>
324-Peoples and Cultures of the East - 3  
Key organization principles, religious and philosophical norms, social customs, aesthetic tastes of China, Japan and other selected Asian nations. (History/Philosophy).  
EGC, IS, IC

326-Moderan Latin America - 3  
A multidisciplinary, team-taught introduction to modern nations of Latin America and Caribbean emphasizing history, literature, political economy, geography, anthropology. (Anthropology/Foreign Languages/Educational Leadership/History).  
EGC, IS, II

331-Mind and Language - 3  
Study of the relationship between thought and language from a variety of academic disciplines that may include philosophy, linguistics, history, psychology, or speech communication. Prerequisite: junior standing.  
IS

332-The Political and Social Thought of Hegel and Marx - 3  
Historical and philosophical investigation of the relevance of Hegel and Marx for critical understanding of the contemporary world, and the relationship between the two thinkers.  
IS

334-Natural Resources: Issues and Conflicts - 3  
American land resource conservation, principles, practices and problems from the perspectives of biology, geography and earth science. (Public Administration/Earth Science).  
IS

336-Global Problems and Human Survival - 3  
SM  
Threats to human survival from war, over-population, pollution, resource depletion, under-development, misuse of the oceans and new technologies plus how to deal with these threats. (Anthropology/Philosophy).  
EGC, IS, II

340-The Problem of War and Peace - 3  
Basic concepts, historical background, causes of war, perspectives of major nations; contemporary ideological, economic, military, political, and legal aspects; proposals for controlling conflict. (History/Philosophy/Political Science/Psychology).  
EGC, IS, II

341-The Immigrant in America - 3  
Impact of immigrant groups on American social, political, and cultural patterns; assimilation, stereotyping, generational conflict, nativism. (English/HISTORY).  
IS

342-Death and Dying - 3  
Individual and cultural confrontations with mortality, demographic patterns; coping with terminal illness, hospice care, bereavement, definition and determination, euthanasia, suicide, children, valuation aspects, education. (Philosophy/Health Education/Nursing).  
IS

343-Contemporary Health Care Issues - 3  
FSM  
Seminar: Examination of contemporary health issues of diverse cultures across the lifespan. Discussion of global trends, cultural, lifespan, and ethical aspects of each topic. Prerequisite: admission to the University, junior standing.  
IS

344-Global History of Nursing and Health Care - 3  
FSM  
Survey of world history of nursing and health care from ancient to contemporary periods. Study of historical figures, development of professional nursing in U.S., and health care issued in contemporary world. Prerequisite: junior or senior standing. (History/Nursing).  
EGC, IS, IC

345-Quilts as Cultural Heritage - 3  
Composed of academic and studio components, this course explores the social, historical, cultural and aesthetic aspects of quilts and quilting among diverse cultural groups. Not for graduate credit.  
EUSC, IGR, IS

350-Women in Social Institutions - 3  (Same as WMST 350)  
Historical, cultural, and social class differences in contexts of education, family, health care, economics, religion, politics. (Anthropology/Foundations of Education/History/Women’s Studies).  
EUSC, IGR, IS

352-Women in the Ancient World - 3  (Same as WMST 352)  
History, political and social lives, and literary and artistic representations of women in ancient Egypt, Mesopotamia, Greece, and Rome. Prerequisite: junior or senior standing.  
EGC, EUSC, IC, IGR, IS

353-Representing Women’s Bodies 300-1500 - 3  (Same as WMST 353)  
M  
Evolution of the ideological construction of the female body as weak or deformed, and the need to transform it so as to be fully human and attain salvation. Prerequisite: junior standing.  
EGC, IC, IS

354-The Science and Ethics of Biotechnology - 3  
Biotechnologies of the past, present and future are examined for their scientific underpinnings and how the philosophy of ethics can be applied to them.  
IS

360-Surival of the Fittest - 3  
The overlap of scientific thought and literary convention in Victorian times. Their relationship is emphasized through lectures, laboratories, and discussions. Prerequisite: junior standing.  
IS

361-Music: Art and Science - 3  
FSM  
Relationship between science and art in music; pitch, overtones, scales, digital recording, and mathematical ratios in art and science. (Music/Computer Science).  
IS

363-Living Ecologically - 3  
F  
General principles of living system sustainability applied to organic chemicals, cell symbiosis, plants, animals, human families, cities, societies, and the world ecosystem. Prerequisites: junior or senior standing. (Biology/History/Sociology).  
EGC, II, IS

364-The Atomic Era: Hitler, the Holocaust and the Bomb - 3  
FM  
Political events leading to the emigration of European scientists to America before World War II; development of the atomic bomb; political and social ramifications of the atomic era. Includes lab. Prerequisite: junior standing.  
EGC, IC, II, IS

375-Technology and Public Policy - 3  
F  
Seminar: Examines competition between government and society over global economic, ethical, and moral impacts of science and technology on diverse groups. Prerequisite: junior standing.  
EGC, EUSC, IGR, II, IS

376-Information Technology and Society - 3  
F  
Investigation of social and ethical issues associated with information technology and its increasing importance in modern life. (Computer Science and Philosophical Studies) Prerequisite: junior standing.  
IS
377-The Arts and the French Revolution - 3
Brings together political, philosophical, and social history with cultural world of art, music and drama. Center of focus is the French revolution of 1789.
EGC, IC, IS

380-Song and Poetry - 3
Survey of the creative relationship between composers’ notes and poets’ words. The choice of songs varies, always covering a wide range of periods and styles.
IS

385-Risk and Risk Tradeoffs - 3
Concepts for understanding and managing risk, uncertainty, and chance. Practical focus upon controversies in regulating risk in such areas as public health and the environment. (Mathematics/Statistics and Philosophical Studies) Prerequisite: junior standing.
IS

386-Cyberarts: Exploring Fine Arts and Computer Technology - 3
Explores relationships between the arts and computer technology in graphics, music, video, and film. Out of class computer work. One university level computer course is strongly recommended. (Theater and Dance/Computer Science) Prerequisites: junior or senior standing.
IS

387-Philosophy and Modern Physics - 3
The course introduces the student to the dramatic connections among revolutionary developments that occurred throughout the 20th century in Philosophy, Physics and closed related disciplines. Prerequisites: PHYS 111 or PHYS205a,b or PHY211a,b or permission of instructor.
IS

399-Interdisciplinary Studies – Special Topics - 3
Multi-subject selected topics that provide opportunities to observe and participate in the interaction of two or more disciplines. Prerequisite: junior or senior standing.
IS

400-History, Culture and Language of China - 3
A travel study course in Chinese language, history, and culture offered in China. (Foreign Languages/History).
EGC, IC, IS

401-Business and Society - 3
The Examination of social, legal, economic, political, and ethical environments confronting contemporary business. Emphasizes analysis and appreciation of interdisciplinary perspectives in corporate social responsibility. Not for graduate credit. Prerequisites: completion of at least 75 credit hours including FIN 320, CMIS 342, MKTG 300, MGMT 341 and Accounting, CMIS, Economics or Finance, Business Administration majors.
EGC, IC, IS

402-Spanish Language and Culture for Health Professionals - 3 (Same as PHEL 784)
Expand knowledge of Spanish language and culture with emphasis on preparing to work in health related fields. Prerequisite: SPAN 101 and 102 with grades of C or better, score of at least 355 on Spanish proficiency test.
IS

403-Global Health - 3 (Same as PHEL 787)
Focuses on biological and psych-social-economic aspects of global health issues from a population perspective. Opportunity to work with other health professionals to address challenges.
EH, IS

444-Deconstructing Race, Class and Gender in the Media - 3
We are asking basic questions about media messages: Who tends to have power in the media? Who tends to be silenced? What messages are we learning about democracy and how to be good citizens? How is media used to support or disrupt gender, racial and class oppression? MC majors may not use the class to fulfill their IS requirement.
IS

International Studies (INTS)

200-Essentials of International Studies - 3
The course is designed to introduce students to the interdisciplinary character of international studies and to acquaint them with the major trends and themes in global affairs today.
EGC, II

400-Internship in International Studies - 3
International Studies related supervised work experience. Minimum of 50 hours required. International Studies Majors only. Prerequisite: INTS 200 with a minimum grade of C. II

401-Independent Project in International Studies - 3
Supervised readings, focused research project, or focused applied project on a topic not regularly offered in the International Studies curriculum. May be repeated to a maximum of 6 hours. International Studies Majors only. Prerequisite: INTS 200 with a minimum grade of C.

499-International Studies Senior Assignment - 3
Research or applied project in an area of international studies that integrates linkages between the area of concentration and a region of the world. Prerequisite: INTS 200 with a minimum grade of C and Senior standing.

Italian (ITAL)

101-Elementary Italian I – 4
Listening, speaking, reading and writing within context of Italian culture. Lab Included.
BICS, FL, HUM, SKFL

102-Elementary Italian II – 4
Continuation of 101. Lab Included.
BICS, EGC, IC, FL, HUM, SKFL

104-Elementary Italian - 8
Intensive instruction in listening, speaking, reading and writing within context of Italian culture. Lab included. Equivalent to 101 and 102 combined.
EGC, IC, FL, SKFL

201-Intermediate Italian I – 4
Continued practice in listening, speaking, reading and writing.
Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: 102 or 104, or consent of instructor.
BICS, DFAH, FL, HUM, SKFL

202-Intermediate Italian II – 4
Continuation of 201. Lab included. Prerequisite: 102 or consent of instructor.
BICS, DFAH, FL, HUM, SKFL

220-Intermediate Italian Conversation - 3
Practice in intermediate-level conversation. Focus on pronunciation and fluency. Prerequisite: 102 or equivalent.

311-Italian Culture and Civilization- 3
Significant aspects of Italian Culture. Prerequisite: 202 or consent of instructor.
DFAH, EGC, HUM, IC
499- Independent Study in Italian – 2 to 6
Selected areas of language, literature, and culture. Individual work or small groups supervised by Italian faculty. Prerequisite: 202 or consent of instructor.

Kinesiology (KIN)
110-Introduction to Health Professions
Students explore career opportunities in health professions related to Exercise Science, Nutrition/dietetics, Public Health, and Speech-Language pathology and admission requirements for professional and graduate schools in health sciences.

112-Selected Sport and Fitness Activities – 1 F
Instruction and participation in a variety of activities; activity may not be repeated.

113-Physical Fitness - 1
Movement activities designed to achieve flexibility, muscular strength, and aerobic endurance.

114-Racquetball - 1
Instruction and participation in beginning racquetball.

115-Beginning Swimming - 1
Water adjustment and stroke techniques for the beginning swimmer. A small additional fee will be assessed for this course.

116-Archery - 1
Basic target shooting.

117-Badminton - 1
Basic skill development and game play in singles and doubles.

118-Bowling - 1 F
Basic techniques, skill development, and scoring for the beginning bowler. A small additional fee will be assessed for this course.

119-Golf - 1 F
Introduction to various components of golf.

120-Tennis - 1
Basic skill development and game play in singles and doubles.

121-Volleyball - 1
Skill techniques, game play, and basic offensive and defensive patterns of play.

122-Recreational Sports - 1 F
Wide variety of leisure and family oriented activities.

123-Aerobic Dance - 1
Rhythmic concepts and exercise application to improve flexibility, endurance, and muscle tone.

155-Advancing Cougar Excellence - 3
The objective of this course is to give freshman student athletes the information they need to successfully navigate through their first year at SIUE. This course is a combination of college life skills and sport psychology skills training. Freshman level only and with advisor consent.

200-Selected Fitness Activities – 2 FS
Instruction and participation in a variety of fitness-related activities; activity or level may not be repeated. EH

201-Aerobics Level I - 2
Basic principles and application for cardiovascular exercise.

202-Aerobics Level II - 2
High intensity level of cardiovascular exercise and individual prescription. Prerequisite: 201 or consent of instructor.

203-Fitness and Sport Activities – 2
Components and principles of fitness applied to various activities. EH

204-Jogging to Fitness – 2
Aerobic running. EH

205-Personalized Shape Up- 2
Assessment and individualized program. FSM

206-Strength Training/Flexibility – 2
Strength training through a full range of movement. EH

207-Weight Training – 2 FS
Free weights and exercise machines. EH

208-Weight Training Level II – 2 S
Advanced weight training techniques. Prerequisite: 207 or consent of instructor.

209-Tumbling – 2
Basic stunts and self-testing activities.

211-Medical Terminology – 3 FSM
Learn to read and comprehend original research, medical reports, and health/fitness evaluations related to prefixes, suffixes, and word roots of medical terms.

220-Selected Sport Activities – 2 S
Instruction and participation in a variety of popular sports; activity or level may not be repeated.

221-Intermediate Bowling – 2
Advanced technique and skills development for the experienced bowler. A small additional fee will be assessed for this course.

222-Intermediate Golf – 2
Advanced stroke techniques and problem shots; individualized analysis of errors. Prerequisite: 119 or consent of instructor.

223-Intermediate Tennis – 2
Advanced stroke techniques and strategy for singles and doubles. Prerequisite: 120 or consent of instructor.

224-Intermediate Racquetball – 2
Advanced skills and techniques. Prerequisite: 114 or consent of instructor.

225-Intermediate Volleyball – 2
Advanced skills and strategies. Prerequisite: 121 or consent of instructor.

230-Selected Aquatic Activities – 2 FS
Instruction and participation in a variety of aquatic experiences; activity or level may not be repeated. A small additional fee will be assessed for this course.

231-Aquatic Exercise – 2
Water fitness exercises for all levels of ability. A small additional fee will be assessed for this course.

232-Lap Swimming – 2
Endurance swimming. Prerequisite: 115 or consent of instructor. A small additional fee will be assessed for this course.

233-Water Games – 2
Recreation and modified aquatic sport activities. A small additional fee will be assessed for this course.

240-Selected Recreational Activities – 2
Instruction and participation in a variety of recreational games; activity or level may not be repeated.

241-Recreational Softball – 2
Softball for recreational fun.

242-Recreational Volleyball – 2
Volleyball for recreational fun.

243-Leisure Activities – 2
Self-directed leisure activities with emphasis on individual
planning and programming for individual/ dual and non-competitive activities.

EH

250-Selected Rhythmic Activities – 2
Variety of experiences reflecting rhythmic movement patterns; activity or level may not be repeated.

EH

251-Ballroom Dancing – 2
Smooth and rhythmic ballroom dance.

EH

252-Dances of Today – 2
Contemporary social dances.

EH

253-Modern Square Dance – 2
Contemporary square dances.

EH

270-Personal Wellness – 3
Teaches healthy lifestyle enhancement through lecture and fitness activity.

EH

275-Introduction to Careers in Nutritional and Exercise Sciences – 3
Course content will include historical and theoretical foundations and an introduction to current practices and professional opportunities within the fields of nutritional and exercise sciences. Prerequisite: Cumulative GPA of 2.5 or greater.

EH

301-Aquatic Activities/Lifetime Leisure Pursuit – 2
Development of skill techniques, teaching progressions, and related concepts pertaining to activity identified in title.

EH

308-Human Development Across the Lifespan – 3
Comprehensive study of theories, concepts, and Empirical research which investigate human development from conception to death. Topics include cognitive, personality, social, and emotional.

EH

310-Exercise Psychology – 3
Overview of the major psychological determinants and consequences of exercise and its impact on public health. Prerequisite: KIN 275 with a grade of C or better.

EH

315-Functional Anatomy – 3
Structural and functional basis of human performance. Prerequisite: BIOL 240a with a grade of C or better.

EH

316-Biomechanics of Human Movement – 3
Mechanics applied to physical performance; analysis of selected movements, and the application of physical principles to the musculoskeletal system. Two hours lecture and two hour laboratory per week. Prerequisite: KIN 315 with concurrency allowed.

EH

319-Theory and Techniques in Strength and Conditioning – 3
Student will learn the basic exercise physiology concepts and exercise techniques required to successfully pass nationally recognized personal training certification exams.

EH

321-Introduction to Musculoskeletal Injury and Rehabilitation – 3
Overview of basic musculoskeletal injuries, dysfunctions and rehabilitation. Course is designed for pre-allied health and fitness professionals. Exercise Science majors only. Prerequisites: KIN 315 with a grade of C or better or consent of instructor. Exercise Science Majors only.

EH

325-Adapted Physical Education – 3
Survey of various disabilities; stresses assessment, curriculum design, instructional strategies, and teaching physical activity in the least restrictive environment. Kinesiology majors only.

EH

330-Integrating Health and Physical Education into the K-8 Curriculum – 2
This course will provide students an opportunity to understand and implement children’s play, health, and physical activity as components of the elementary/middle school curriculum. Prerequisites: CIED 100 with a grade of C or better. Elementary Education majors only.

EH

334-Early Childhood Physical Education – 3
Movement skill activities and analysis related to motor development in young children. Includes planning and teaching of developmentally appropriate physical activities. Kinesiology majors only.

EH

340-Organization and Management of Exercise and Wellness Facilities – 3
Theoretical and practical aspects of selected organization and management procedures which relate to the development, implementation, operation, and evaluation of exercise and wellness facilities.

EH

350-Exercise Physiology – 3
Examination of the scientific theories behind the body’s responses to exercise. Topics will include exercise metabolism, respiration, circulation, neuromuscular, hormonal, and environmental influences on exercise. Prerequisite: BIOL 240B with a grade of C or better. An additional fee will be assessed for this course.

EH

355-Sports Nutrition and Supplementation – 3 (Same as NUTR 355)
In-depth review of the leading research and effective practices in sport nutrition and supplementation. Focus on increasing athletic performance during training and competition. Prerequisite: NUTR 250 or NUTR 319 or KIN 350 with C or better, or consent of instructor.

EH

373-Sports Psychology – 3
Examines the application of psychological theory, research methods, and intervention techniques in the realm of sport and physical activity. Prerequisite: Sophomore or higher standing.

EH

401-Sport Medicine and Rehabilitation Psychology – 3
Designed to provide an overview of the psychological issues associated with the field of sport medicine and injury recovery. Prerequisite: Sophomore standing or above.

EH

412-Biology of Cardiovascular and Metabolic Disease – 3
Molecular bases of human diseases related to cardiovascular, diabetes, hypertension, and obesity. Relationship between cellular pathways, diseases, and treatment effects. Not for graduate credit. Prerequisite: KIN 350 or NUTR 350 with C or better.

EH

416-Exercise Assessment/Programming – 3
Introductory course to the theoretical and practical concepts of exercise assessment, interpretation, and prescription. Not for graduate credit. Prerequisite: 350 with a grade of C or better. Kinesiology majors only. An additional fee will be assessed for this course.

EH

417-Exercise for Special Populations – 3
Using the ACSM guidelines, exercise benefits and risks for special populations related to age, gender, and individuals with health complications and disabilities will be discussed. Prerequisite: KIN 350 with C or better.

EH

418-Exercise Epidemiology – 3
Effects of physical activity on cardiopulmonary, metabolic, and other hypokinetic diseases. Students will gain an understanding of current evidence-based interventions that improve health. Not for graduate credit.

EH

426-Cardiac and Pulmonary Rehabilitation – 3
This course will cover theory and common practice for the assessment and treatment of patients with cardiac and pulmonary diseases. Prerequisite: KIN 350 with a grade of C or better or consent of the Instructor. An additional fee will be assessed for this course.
Latin (LAT)

450-Psychosocial Aspects of Sport and Physical Activity – 3
Psychological and social aspects of human behavior and societal influence with emphasis on impact of motor performance, learning motor skills, and engagement in physical activity. Not for graduate credit. Kinesiology majors only.

460-Internship in Exercise Science – 1 to 9 FSM
Supervised 200-hour placement in professional settings appropriate to student career interests. This course may be repeatable up to 9 credit hours for clinical experience requirements for professional certifications. Not for graduate credit. Prerequisite: 2.75 overall GPA, active American Red Cross CPR/First Aid/AED training, and grade of C or better in KIN 416.

484-Senior Seminar in Exercise Science – 3 FS Capstone senior project that is designed to integrate the cumulative knowledge, skills, and abilities from the exercise science curriculum into an impactful community-based project. Prerequisite: KIN 416 with C or better.

480-Independent Study – 1 to 4 FSM
Individual investigation of a topic to be agreed upon by the instructor. May be repeated for a maximum of 4 hours so long as topics vary. Prerequisite: consent of instructor. Kinesiology majors only.

490-Selected Topics in Applied Kinesiology – 1 to 4 FSM
Theory and practice in topical areas such as exercise physiology; biomechanics; sport psychology, exercise psychology, skill teaching, & fitness assessment. May be repeated to a maximum of 6 hours provided no topics are repeated. Kinesiology majors only.

496-Advanced Concepts and Techniques in Strength and Conditioning – 3 M
This course will prepare students to take the Certified Strength and Conditioning Specialist (CSCS) certification exam through the National Strength and Conditioning Association. Prerequisite: 319 and 350 or consent of instructor. Kinesiology majors only.

499-Individual Research – 1 to 4 SM
Selection, investigation, and writing of research paper under supervision of instructor. Prerequisite: consent of instructor. Kinesiology majors only.

Liberal Studies (LIBS)

198-Liberal Studies Internship I – 0 FSM
Practical work activity with an outside organization providing students with the opportunity to apply conceptual knowledge in the workplace. Enroll through the Career Development Center. Students will receive a grade of pass or no credit. Requires consent of the dean.

199-Liberal Studies Cooperative Education – 0 FSM
Supervised work activity with agency, firm or organization, providing a learning environment in which theoretical models are implemented in the student's career area of interest. Students will receive a grade of pass or no credit. Requires consent of the dean.

298-Liberal Studies Internship II – 0 FSM
Practical work activity with an outside organization providing students with the opportunity to apply conceptual knowledge in the workplace. Enroll through the Career Development Center. Students will receive a grade of pass or no credit. Requires consent of the dean.

299-Liberal Studies Cooperative Education – 0 FSM
Supervised work activity with agency, firm or organization, providing a learning environment in which theoretical models are implemented in the student's career area of interest. Students will receive a grade of pass or no credit. Requires consent of the dean.

300-Student Colloquium – 1 to 3 SM
Student initiated, student developed, student conducted colloquium. Innovative and experimental participating course on approved topics not otherwise available. Requires approval by the Dean of the College of Arts and Sciences.

397-Vince Demuzio Governmental Internship - 2 FS
Legislative staff intern with House or Senate legislators or with state agencies in Illinois. Open to all majors. The intern works 15 to 20 hours per week in a paid position for up to 24 months while maintaining a full time load of classes each semester. The intern will perform duties as regular staff members with the legislator or agency. Student must complete application process for consideration. Minimum of Junior status (at least 60 hours of baccalaureate-level course work. Open to only undergraduates. Minimum GPA of 2.75 overall and/or 3.00 in major on a 4.00 scale. Must maintain full time (12 credit hours) per semester. Prepare written assignments as assigned by instructor each semester.

Course Descriptions
Management (MGMT)

330-Understanding the Business Environment – 3 FSM
Focus is on developing basic business communication skills in written communication and formal presentations and introducing students to the basic functions of businesses and managers. Prerequisite: Admission to the School of Business.

331-Managing Group Projects - 3 FSM
Course is strongly geared toward skill development and acquiring task and interpersonal skills to work effectively in a group to accomplish stated goals. Prerequisite: Admission to the School of Business.

340-Principles of Management - 3 FSM
Importance of management to success of organizations; history of management; organizations as systems; decision-making; planning systems; organization structure/design; control systems; managing human resources. Prerequisites: ACCT 200, accounting, CMIS, economics or finance, business administration majors.

341-Organizational Behavior and Interpersonal Skills - 3 S
Knowledge and skill applying behavioral science concepts integrating management and diversity issues (i.e.-age, personality, ethnicity, culture and gender) in interpersonal, inter-group and organizational relationships. Prerequisite: 340, admission to School of Business. EUSC, IGR

430-Human Resource Management - 3 FSM
Theory, practice and trends in effective utilization of human resources in organizations. Prerequisites: Admission to School of Business; MGMT 330 and 331, or MGMT 340.

431-Recruiting, Selecting, and Hiring Employees - 3 F
Principles, practices, and issues relevant to staffing work organizations. Topics include employee recruitment approaches; selection procedure development; workforce headcount planning; and equal employment regulations. Prerequisites: 430, admission to School of Business.

432-Training and Developing Employees - 3 S
Knowledge of principles, practices, and factors that contribute to employees’ job competence, performance, personal and professional growth, and contribution to organizational performance. Topics include training needs assessment and training development and delivery. Prerequisites: 430, admission to School of Business.

433-Performance Management and Compensation - 3 S
This course focuses on the importance of performance management in the workplace, including performance assessment, compensation and workplace safety, along with performance in union environments. Prerequisites: 430, admission to School of Business.

441-Strategic Management - 3 FSM
Capstone course using top management perspective to develop comprehensive, integrative analysis of organizations and environments as basis for development, implementation, evaluation, control of overall strategy. Not for graduate credit. Prerequisites: completion of BSBA core requirements (MGMT 330 and 331, MKTG 300, CMIS 342, PROD 315, FIN 320), admission to School of Business, and 109 credit hours toward degree completed.

451-Managing Organizational Change and Innovation - 3 FS
Study of organizational change with emphasis on diagnostic skills necessary for effective management of planned organizational change. Individual and group leadership approaches to increase effectiveness. Prerequisites: Admission to the School of Business; MGMT 330 and 331, or MGMT 341.

461-Managing in the Global Economy/ International Management - 3 FS
Management of business in other countries and in global economy. Interaction of political, cultural, social, legal and economic forces in international business context. Prerequisites: Admission to the School of Business; MGMT 330 and 331, or MGMT 341.

475-Entrepreneurship and Small Business Management - 3 FS
Formation of new enterprises and management of small business. Focus on identifying opportunities, starting a new enterprise, and operational and organizational aspects of small business management. Prerequisites: Admission to the School of Business; MGMT 330 and 331, or MGMT 341.

476-Entrepreneurship Practicum – 3 FSM
Practicum in entrepreneurship. Application of knowledge from MGMT 475 to challenges facing small and new businesses. Students work with local entrepreneurs under faculty direction. Not for graduate credit. Prerequisites: MGMT 475; must be admitted to School of Business; restricted to entrepreneurship concentration students. EGC

485-Managing Quality and Performance – 3 S
Current topics in management, with special emphasis on designs, programs and techniques for managing quality and performance improvements. Advanced readings and cases on innovative business practices. Prerequisites: Admission to the School of Business; MGMT 330 and 331, or MGMT 341.

490-Independent Study in Management – 1 to 3 S
Topical areas of concentrated study under faculty direction. Allows for advanced, more in-depth exploration of management issue than in regular courses. Not for graduate credit. Prerequisites: MGMT 330 and 331, or MGMT 341, and detailed proposal approved by supervising faculty member and chairperson.

495-Special Topics in Management – 3 S
Advanced and specialized topics of current concern to field of management. May be repeated up to a maximum of 6 hours provided no topic is repeated. Prerequisites: Admission to School of Business; MGMT 330 and 331, or MGMT 341, and consent of instructor.

Management Science (MS)

250-Mathematical Methods for Business Analysis –3 FSM
Mathematical tools required for business analysis; business applications of functions, graphing, solving systems of equations, matrix algebra, counting rules, differentiation and integration. Prerequisites: MATH 120 and ECON 112, both with grades of C or better.

251-Statistical Analysis for Business Decisions - 4 FSM
Descriptive statistics. Probability. Inferential statistics. Estimation and hypothesis testing of means and proportions. Simple and multiple regression, analysis of variance, and contingency table analysis. Prerequisite: ECON 111 and 112, and MS 250 or MATH 150, all with grades of C or better. BICS, PS, EL

Marketing (MKTG)

300-Principles of Marketing – 3 FSM
Marketing in economic systems and society. External influences on marketing objectives, outcomes. Marketing as functional area within organizations. Emphasis on product, pricing; distribution; promotion decisions. Prerequisite: accounting, business administration, economics or finance, CMIS majors.

377-Marketing Research - 3 FSM
Concepts necessary for understanding/performing applied marketing/business research. Research process: problem identification; design; sampling; data sources; collection.

Southern Illinois University Edwardsville
Experimental designs; measurement; statistical analysis. Prerequisites: 300 and MS 251, admission to the School of Business.

466-Marketing on the Internet - 3
Focus on marketing issues surrounding commercialization of World Wide Web and other emerging electronic media. Examines impact of digital technology on strategic marketing planning. Prerequisites: 300, admission to the School of Business.

467-Product and Brand Management - 3
This course provides the necessary frameworks, tools, and techniques to make the process of developing and managing products and services more effective and efficient. Prerequisites: 300, admission to the School of Business.

468-Services Marketing - 3
This course is designed to provide students with a fundamental understanding of services marketing with an emphasis on applying marketing decision making within service environments. Prerequisites: 300, admission to the School of Business.

470-Sport Marketing - 3
Sports marketing mix decisions from perspective of organizations that offer sports-related products and those that use sport to promote other products and services. Prerequisites: 300, admission to the School of Business.

471-Advertising Policy and Management - 3
Strategic role of persuasive communication. Concepts and methods necessary to develop advertising programs. Advertising planning and budgeting in the context of achieving marketing objectives. Prerequisites: 300, admission to the School of Business.

472-Sales Policy and Management – 3
Organization and operational functions of salespeople and sales managers. Selling skills, forecasting, recruiting, selection, training, territory design and assignment, supervision, compensation, motivation, and performance appraisal. Prerequisites: 300, admission to the School of Business.

474-Retail Policy and Management - 3
Functions, organization, management of retail enterprises. Impact of recent and contemporary forces. Systems for merchandising and promotional activities. Retailing careers and appropriate preparation. Prerequisites: 300, admission to the School of Business.

475-Consumer Behavior - 3
Consumer motivation, buying behavior, group influence, cultural forces, information processing, and product diffusion. Explanatory theories and product development. Prerequisites: 300, admission to the School of Business.

476-International Marketing - 3
Impact of tariffs, cultural/social restrictions, economic political environments, legal restrictions. International distribution pricing; multinational product planning; communications decisions; international marketing research. Prerequisites: 300, admission to the School of Business. EGC, II

478-Intermediate Marketing Research - 3
Marketing research project planning and development. Emphasizes design and execution of custom research projects, data analysis, report preparation and presentation. Prerequisite: 377.

479-Special Topics in Marketing - 3
Contemporary issues/problems in marketing. Topic varies when offered. Examples: service marketing; industrial marketing; nonprofit marketing; and other significant topics. May be repeated up to a maximum of 6 hours provided no topic is repeated. Prerequisites: 300 and consent of instructor.

480-Advanced Marketing Management - 3
FS Market structure and behavior. Research and select marketing opportunities. Develop marketing strategies. Plan marketing tactics. Implementation and control of marketing efforts. Final marketing course. Prerequisites: 377, senior standing, admission to the School of Business.

490- Independent Study in Marketing — 1 to 3
Topical areas in greater depth or unavailable in regular courses. Individual or small group readings and/or research projects. May repeat by permission to a maximum of 6 hours as topic varies. Prerequisites: consent of instructor and department chairperson, admission to the School of Business.

**Mass Communications (MC)**

201-Mass Media in Society — 3
Analysis of mass media focusing on technological, economic, governmental, and societal impact. DFAH, HUM

202-Writing for the Media — 3
First experiences reporting, writing and rewriting news and information for various media forms: print, electronic, promotional, advertising, public relations. Includes potential publication in SIUE's campus newspaper, The Alestle. DFAH, HUM

204-3 Introduction to Audio and Video Production — 3
Planning and realization of audio and video productions; studio techniques; audio and video non-linear editing. Emphasis on composition, aesthetics and storytelling. Prerequisite: 202. DFAH, HUM

301-3 Advanced Audio Production — 3
Professional audio production for broadcast and across digital media platforms. Editing, script writing, technical skills and on-air performance. Prerequisite: 204. DFAH, HUM

321-Feature Writing — 3
Learn the essentials of writing and researching feature news pieces for evolving media platforms and contemporary outlets. Enterprise reporting stressed. Prerequisite: 202 with grade of C or better. DFAH, HUM

322-Copy Editing for the Media — 3
Learning the professional tools needed to improve your media writing. Covers philosophies of writing and editing for multiple platforms. AP Style. Peer editing component. DFAH, HUM

323-Digital Publishing and Design – 3
FSM Digital publication design and production of layouts for brochures, magazines and other media. Focuses on content-driven design through diverse methods of distribution. Prerequisite: 202. DFAH, HUM

324-Advanced News Reporting - 3
Reporting for print and digital media about local and state government; politics law enforcement; courts; education; and, state and federal agencies. Investigative reporting. Prerequisite: 202. DFAH, HUM

325-Fundamentals of Advertising - 3
FSM Examines regulation, media and methods, including research, copywriting and analysis of appeals and messages in advertising. DFAH, HUM

326-Advertising Copywriting and Design - 3
Processes and practices in copywriting and design for print,
broadcast and online advertising. Prerequisites: 323 and 325 with grade of C or better.

DFAH, HUM

327-Writing and Designing for Digital Media - 3 FSM
A hands-on course in social media and web design: Students create digital content and complete medium-sized web projects. Prerequisite: 204 with grade of C or better.

DFAH, HUM

330-Advanced Broadcast Writing - 3 FS
Develop advanced skills for writing documentary films. Commercials, promos and other media platforms covered. Prerequisite: 204 with grade of C or better.

DFAH, HUM

331-Electronic Media Performance – 3 S
Extensive instruction and practice in electronic media performance. Students prepare projects for field and studio production and presentation. Research paper required.

DFAH, HUM

332-Advanced News Production – 3 F
Extensive practice in writing, producing and editing audio and video news for broadcast and digital media. Prerequisite: 204 with grade of C or better.

DFAH, HUM

333-Advanced Video Production – 3 FS
Students produce professional-quality video segments for a weekly half-hour newsmagazine show. Prerequisite: 204 with grade of C or better.

DFAH, HUM

334-Commercial Production – 3 F
Processes and practices in copywriting and production for radio, TV and online advertising. Prerequisites: 204 and 325 with grades of C or better or consent of instructor.

DFAH, HUM

335-Evolution of Entertainment Television - 3
Economic and technological factors in the history of entertainment television in the United States; changing social and political values as reflected in prime time programming.

DFAH, HUM

341-Sports Journalism - 3
Course provides overview of sports journalism and enhances students' writing, reporting, interviewing and editing skills. Students learn to write game, advance and feature stories. Prerequisites: 202 with grade of C or better.

HUM

342-Digital Imagery – 3 F
Capturing, organizing, selecting, and enhancing digital images to achieve stunning effects using industry-standard software. Course emphasizes the role of digital images as a communicative medium. Prerequisite: 202 with grade of C or better.

DFAH, HUM

351-Women in Mass Communications - 3 (Same as WMST 351)
Early women journalists' struggles. Social, political, technological contexts. Media as tools of social change. Historical patterns. Positive and negative male influences. Prerequisite: junior standing.

DFAH, EUSC, HUM, IGR

353-History of Mass Media - 3

DFAH, HUM

389-Media Planning - 3 FM
Advanced media advertising planning strategies; coverage of media buying, planning skills and tools, problem solving, audience factors. Prerequisite: 325

DFAH, SS

401-Media Law and Policy – 3 FSM

DFAH, HUM

402-Media Management – 3 FS
Management responsibilities, challenges, and expectations in the professional environment, i.e., promotions, ratings, programming. Research paper required. Prerequisite: upper-class standing in Mass Communications major.

DFAH, HUM

403-Cultural Studies in Media – 3 FSM
Use of critical theory to examine media's impact on society and culture. Attention paid to race, class, gender and sexuality. Not for graduate credit. Prerequisite: upper-class standing in Mass Communications major.

DFAH, HUM

421-Advertising Campaigns – 3 S
Creation and production of advertising campaigns using print and electronic media. Prerequisite: 326 or 334 with grades of C or better.

DFAH, HUM

422-Writing for the Corporate and Institutional Market – 3 S
Writing on behalf of corporations and other institutions for external and internal communication purposes. Study of corporate publications. Prerequisite: 202 with grade of C or better or consent of instructor. For MC majors only.

HUM

423a-Advanced Topics in Writing for Media - 3
Advanced theory and practice of writing for the print and visual media. Dramatic writing.

DFAH, HUM

423b-Advanced Topics in Writing for Media - 3
Advanced theory and practice of writing for the print and visual media. Other topics.

DFAH, HUM

424-Writing for the Corporate and Institutional Market - 3
Students develop skills in literary non-fiction writing. Includes reading works by both historically important and contemporary writers in this genre. Prerequisite: 202 with grade of C or better or consent of instructor. For MC majors only.

HUM

431-Freelance Media Production – 3 S
Advanced production techniques for corporate and non-profit videos, with an emphasis on skills needed for freelance video production and survival as an independent contractor. Not for graduate credit. Prerequisites: 204 with a grade of C or better and/or consent of instructor.

DFAH, HUM

433-Advanced Video Directing and Producing – 3 FS
Advanced theory and practice in television directing and producing. Students work as senior producers for the cable network program SIUE Global Village, plus other assignments. Prerequisite: 333 with a grade of C or better.

HUM

440-Visual Media Analysis – 3 FS
Evaluation of illustration and photography for publication and for motion imagery. Values, language, philosophy, style and standards based on artistic vision, audience expectations, and distribution constraints.

DFAH, HUM
441-Advanced Writing and Designing for Digital Media – 3 FS
A project-based course which provides a comprehensive overview of both writing and designing for digital media. Students learn popular, industry-leading multimedia authoring tools. Prerequisite: 327 with a grade of C or better.
DFAH, HUM

443-Narrative Media Production - 3
Processes and practices for short narrative production; including short films, TV pilots and web series. Prerequisite: MC 204 with a C or better. For MC Majors only.

447-Photojournalism - 3
Students learn to explore their communities with cameras and use photographs to communicate. Technical skills, editing process, professional codes and industrial developments will be discussed. Not for graduate credit. Prerequisite: 342 with a grade of C or better.
HUM

449-Media Psychology – 3 S
Media’s short-term and long-term psychological effects; socialization of children and adults; persuasion and social perception in politics, health communication and consumer behavior. Prerequisite: senior standing or consent of instructor.
BSS, DFAH

451-Research Methods in Mass Media - 3 FS
Examination of traditional and emerging concepts of research. Extensive use of research instruments, evaluation and special applications to mass media. Individual and group research projects required. Prerequisites: senior standing or consent of instructor.
DFAH, SS

452-New Media and Technology - 3
Technological changes in the mass media. New media forms, audience fragmentation, economic, regulatory, and social issues. Patterns of adoption and diffusion. Prerequisite: senior standing.
DFAH, HUM

453-Transnational Media - 3
Focus on media ownership, content flow, cultural values, political power, and technological impact in history industrialization, economics and current processes of globalization.
BSS, DFAH, EGC, EUSC, II

454-Documentary Media Production - 3 FS
Evolution of documentary filmmaking; emphasis on student production of original documentary films. Prerequisite: MC 204 with a grade of C or better and a grade of C or better in MC 332 or MC 333 or MC 334 or MC 431 or consent of the instructor.
DFAH, HUM

471-Special Topics in Mass Media - 3 M
Special and advanced topics in the mass media. Topics to be announced. May be repeated to a maximum of 9 hours provided no topic is repeated.
DFAH, HUM

475-Advanced Mobile Media Design - 3
A project based which introduces students to concepts and techniques in designing advanced mobile-based interactive multimedia applications. Prerequisites: 441 with a grade of C or better.
DFAH, HUM

481-Internship/Senior Portfolio - 3 FSM
Experience with professional media under the joint supervision of faculty and media professionals. Preparation and presentation of a senior portfolio for evaluation by faculty. Not for graduate credit. Prerequisite: Mass Communications major, senior standing and approval of instructor.

482-Internship - 3 SM
Experience with professional media under the joint supervision of faculty and media professionals. This course may not be used to satisfy Mass Communication elective requirements. Not for graduate credit. Prerequisites: 481 or concurrent enrollment, Mass Communications major, senior standing and approval of instructor.

491-Advanced Practices - 3
Advanced work in areas which student has completed all formal course work. Included are studies in news, advertising, writing, announcing, production-direction. May be repeated to a maximum of 6 hours. Prerequisite: consent of instructor.

495-Readings in Mass Media – 1 to 4
Selected readings in depth with member of faculty. Contemporary books and periodicals. May be repeated to a maximum of 4 hours. Prerequisites: senior standing and consent of instructor.

499-Independent Study – 1 to 3 S
Special projects, research, and independent study under guidance of faculty supervisor. Not for graduate credit.

Mathematics (MATH)

106-Deductive Reasoning and Problem Solving - 3
Theory and practice of reasoning, formal logic, elements of scientific method. Graduation credit may be earned for MATH 106 or PHIL 106 but not both for both. Prerequisite: two years of high school mathematics.
PS, SKLG

112a,b-Mathematics for Elementary Teaching – 3 each FS
These courses are designed to meet state licensure standards for elementary teachers. a) [INSM] Number Sense and Algebra; b) [DNSM] Probability, Statistics, and Geometry. Prerequisites: MATH 112a - none. MATH 112b - MATH 112a with grade of C or better or concurrent enrollment.
BPS

112c-Mathematics for Elementary Teaching - 3 F
One of three courses designed to meet state certification standards for elementary teachers. College algebra skills essential for elementary teachers. Prerequisite: ALEKS PPL score of 46 or above or MATH 112a and MATH 112b with grades of C or better.
BPS

120-College Algebra – 3 FSM
Cartesian coordinates, graphing, lines, parabolas, functions, inverses, roots of polynomials, rational functions and inequalities, linear systems, matrices, and determinants. Prerequisites: ALEKS PPL score of 46 or above.
BPS, DNSM, INSM

120e-Enhanced College Algebra – 3 FS
Cartesian coordinates, graphing, lines, parabolas, functions, inverses, roots of polynomials, rational functions and inequalities, linear systems, matrices, and determinants. Prerequisites: Students admitted for Spring 208 and beyond must satisfy prerequisite for MATH 120-P with ALEKS PPL score of 30, or AD 070 or equivalent with grades of C or better, or Math ACT sub-scores of 21 or 22.
BPS, DNSM, INSM

125-Pre-Calculus Mathematics with Trigonometry - 3 FSM
Exponential and logarithmic functions and their applications, inverse trigonometric functions, trigonometric identities and equations, laws of sines and cosines, binomial theorem, and introduction to partial fractions. Prerequisites: ALEKS PPL score of 61 or above or MATH 120 with grade of C or better.
BPS, DNSM, INSM

145-Calculus for the Life Sciences - 5 FSM
Fundamental concepts of calculus with applications focused on the life sciences: limits, continuity, derivatives, integrals,
fundamental theorem of calculus, partial derivatives, differential equations, and applications. Course not a prerequisite for Math 152. Prerequisites: ALEKS PPL score of 76 or above or MATH 125 with a C or better.

BPS

150-Calculus I - 5 FSM
Fundamental concepts of calculus: limits, continuity, derivatives. Mean Value Theorem, applications. Integrals, Fundamental Theorem of Calculus, integration techniques, applications. Prerequisites: ALEKS PPL score of 76 or above or MATH 125 with grade of C or better. BPS, DNSM, INSM [IAI No. M1 900-1]

152-Calculus II - 5 FSM
Applications of integration, techniques of integration, improper integrals, polar coordinates, infinite sequences and series, Taylor’s Theorem. Prerequisite: 150 with a grade of C or better. BPS, DNSM [IAI No. M1 900-2]

223-Logic and Mathematical Reasoning – 4 FS
Concepts and techniques essential to advanced mathematics: logic, methods of proof, sets, relations, induction, functions, cardinality, combinatorics and graph theory. Prerequisite: 150 with grade of C or better (2 lecture hours plus 2-hour lab). PS

224-Discrete Mathematics – 3 FS
Mathematical concepts and techniques essential to computer science: logic, sets, algorithms, methods of proof, induction and recursion, simple counting techniques, graph theory. Does not count toward a major in mathematics. Prerequisite: CS 140 with a grade of C or better. BPS, DNSM

250-Calculus III – 4 FSM
Vectors, dot and cross products, lines and planes in space, vector-valued functions. Partial derivatives, gradient, extrema, multiple integrals. Theorems of Green, Stokes, and Gauss. Prerequisite: 152 with a grade of C or better. BPS, DNSM [IAI No. M1 900-3]

300-History of Mathematics from Antiquity to Descartes - 3
The development of mathematics from antiquity through the development of analytic geometry. Does not count toward a degree in mathematics. Prerequisite: 125 with a grade of C or better. PS, DNSM

305-Differential Equations I – 3 FSM
First order ordinary differential equations, linear ordinary differential equations of higher order, systems of first order linear equations, applications. Prerequisites: 250 and PHYS 141 or PHYS 151 or PHYS 211a or ME 492 with grades of C or better. PS, DNSM

310-Teaching of Middle School Mathematics – 3
Constructing instructional objectives; formulating, utilizing and evaluating strategies for teaching mathematical concepts and skills; diagnosis and remediation of students' learning difficulties. Does not count toward a degree in mathematics. Prerequisites: 112a, 112b or consent of instructor. PS

311-Teaching of Secondary Mathematics 1 - 3 F
The first of two courses focusing on the content and pedagogy applicable to secondary mathematics teacher licensure. Does not count toward non-teaching degree or minor in mathematics. Prerequisite: junior standing. PS, DNSM

315-Number Theory – 3
Divisibility, primes, numerical functions, congruences, introduction to coding theory, continued fractions, rational approximations. Does not count toward a degree in mathematics. Prerequisite: 125 with a grade of C or better. PS, DNSM

320-Introduction to Algebraic Structures - 3 F
Introduction to group theory. Groups, subgroups, cyclic groups, cosets and Lagrange’s theorem, homomorphisms, factor groups. Prerequisite: 223 with a grade of C or better. PS, DNSM

321-Linear Algebra I - 3 FSM
Systems of linear equations matrices and determinants; Vector spaces and linear transformations. Eigenvalues, eigenvectors, diagonalization of a symmetric matrix. Prerequisites: 152 with a grade of C or better. PS, DNSM

340-Theory of Interest - 3 F
Measures of interest, annuities, yield rates, amortization schedules and sinking funds, economic rationale for interest, stochastic approaches to interest. Prerequisite: 152 with a grade of C or better. PS, DNSM

350-Introduction to Analysis - 4 SM
Logic, set theory, real numbers. Topology on the real line. Cardinality. Sequences and series of real numbers; limits and continuity; sequences and series of functions. Prerequisites: 223 and 250 with grades of C or better. PS, DNSM

355-Engineering Mathematics - 5 F
Linear Algebra: Gaussian elimination, linear independence, vector spaces, eigenvalues; Discrete Mathematics: combinations, graph theory, and Complex Analysis: differentiation, integration, series. Prerequisite: 305 with a grade of C or better. PS, DNSM

400-Development of Modern Mathematics - 3 S
The development of mathematics since the discovery of calculus. Prerequisites: 152 and 223 with grades of C or better. PS, DNSM

411-The Teaching of Secondary Mathematics 2 - 3 S
The second of two courses focusing on the content and pedagogy applicable to secondary mathematics teacher licensure. Does not count toward non-teaching degree or minor in mathematics. Prerequisites: 311 with a grade of C or better or consent of instructor. PS

416a-i-1-Mathematics Topics for Teachers – 3 each
(a) Analysis; (b) Algebra; (c) Number theory; (d) Probability and statistics; (e) Mathematical concepts; (f) Geometry; (g) History of mathematics; (h) Applied mathematics; (i) Logic and foundations. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a specialization or minor in mathematics. Prerequisite: consent of instructor. PS

420-Abstract Algebra - 3 aS
Rings, fields, integral domains, homomorphisms, factor rings, rings of polynomials, prime ideals, maximal ideals, extension fields, and vector spaces. Prerequisite: 320 with a grade of C or better, or consent of instructor. PS, DNSM

421-Linear Algebra II - 3 F
Advanced study of vector spaces: Cayley-Hamilton Theorem, minimal and characteristic polynomials, eigenspaces, canonical forms, Lagrange-Sylvester Theorem, applications. Prerequisites: 223, 250, 321 with grades of C or better, or consent of instructor. PS, DNSM

423-Combinatorics and Graph Theory - 3 aM
Methods of solving problems which are discrete in nature.
Counting, combinatorial reasoning and modeling, generating functions, recurrence relations. Graphs: definitions, examples, basic properties, applications, algorithms. Prerequisites: 223 with a grade of C or better, some knowledge of programming is recommended.

PS, DNSM

430-A Geometric Intro to Topology - 3 as
Topological spaces and equivalence through the study of knots, links, surfaces, 3-manifolds and other selected topics. Prerequisite: Math 350 with a grade of C or better.

PS, DNSM

435-Foundations for Euclidean and Non-Euclidean Geometry - 3 F
Points, lines, planes, space, separations, congruence, parallelism and similarity, non-Euclidean geometries, independence of the parallel axiom. Riemannian and Bolyai-Lobachevskian geometries. Prerequisites: 250, 321, and either 320 or 350 with grades of C or better, or consent of instructor.

PS, DNSM

437-Differential Geometry - 3 as
Curves and surfaces in Euclidean 3-space from the perspective of classical differential geometry. Topics include: Frenet frames, fundamental surface forms, geodesics, and the Gauss-Bonnet theorem. Prerequisite: 250, 321 with grades of C or better.

PS, DNSM

450-Real Analysis I - 3 F
Differentiation and Riemann integration of functions of one variable. Taylor series. Improper integrals. Lebesgue measure and integration. Prerequisite: 350 with a grade of C or better.

PS, DNSM

451-Introduction to Complex Analysis - 3 as
Analytic functions, Cauchy-Riemann equations, harmonic functions, elements of conformal mapping, line integrals, Cauchy-Goursat theorem, Cauchy integral formula, power series, the residue theorem and applications. Prerequisite: MATH 350 with a grade of C or better, or consent of instructor.

PS, DNSM

462-Engineering Numerical Analysis - 3 F
Polynomial interpolation and approximations, numerical integration, differentiation, direct and iterative methods for linear systems. Introduction to numerical solutions for ODEs and PDEs. Matlab programming required. Not for Math majors. Prerequisite: MATH 250, 305, CS 140 with grades of C or better, or consent of instructor.

PS, DNSM

464-Partial Differential Equations - 3 as
Partial differential equations, heat equation, wave equation, Laplace’s equation, Fourier series, Fourier transforms, method of separation of variables. Prerequisites: 223, 250, 305 and 321 with grades of C or better, or consent of instructor.

PS, DNSM

465-Numerical Analysis - 3 F
Error analysis, solution of nonlinear equations, interpolation, numerical differentiation and integration, numerical solution of ordinary differential equations, solution of linear systems of equations. Prerequisites: 223, 305, and CS 145 with grades of C or better, or consent of instructor.

PS, DNSM

466-Numerical Linear Algebra with Applications - 3 as
Direct and iterative methods for linear systems, approximation of eigenvalues, solution of nonlinear systems, numerical solution of ODE and PDE boundary value problems, function approximation. Prerequisites: 223, 250, 305, 321, and CS 145 with grades of C or better.

PS, DNSM

490a-h-Topics in Mathematics – 1-3 each
Selected topics in specified area of interest. (a) Algebra, (b) Geometry and topology, (c) Analysis, (d) Mathematics education, (e) Logic and foundations, (f) Differential equations, (g) Numerical analysis, (h) Combinatorics and graph theory. May be repeated to a maximum of 6 hours so long as no topic is repeated. Prerequisite: consent of instructor.

498a-Independent Study – 1-3 each
Research and reading in specified area of interest. (a) Algebra; (b) Geometry; (c) Analysis; (d) Mathematics Education; (e) Logic and foundations; (f) Topology; (g) Numerical analysis. May be repeated to a maximum of 9 hours so long as no topic is repeated and not more than 3 hours are accumulated in a single segment nor more than 6 in one semester. Prerequisite: written consent of advisor and instructor.

PS, DNSM

498-Senior Seminar - 2
Mathematical modeling. The writing and presenting of mathematical ideas. Preparation for senior project. Prerequisite: completion of the mathematics core; restricted to Mathematics and Statistics majors.

499-Senior Project – 2
Directed study toward completing the senior assignment. Student completes a written project and gives an oral presentation. Prerequisite: completion of the mathematics core; restricted to Mathematics and Statistics majors.

Mechanical Engineering (ME)

192-Special Topics in Mechanical Engineering -- 1 to 6
Selected topics of special interest in mechanical engineering. May be repeated to a maximum of 6 hours so long as no topic is repeated. Not for graduate credit. Prerequisites: declared major in engineering, consent of department chair, and Math 150 with grade of C or better.

198-Mechanical Engineering Work Experience I -- 0 SM
Supervised work experience with agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours.

199-Mechanical Engineering Cooperative Education I - 0 FSM
Supervised work experience with agency, firm or organization that uses engineers. First work period of five-year academic/work experience program. Prerequisites: sophomore standing in mechanical engineering and consent of engineering co-op advisor.

262-Dynamics - 3 FSM
Differentiation and rotation of vector valued functions; dynamics of particles; Newton’s laws, momentum and energy; relative motion; dynamics of rigid body plane motion. Prerequisite: CE 240 with a minimum grade of C.

298-Mechanical Engineering Work Experience II -- 0 SM
Supervised work experience with agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: ME 198.

299-Mechanical Engineering Cooperative Education II - 0 FSM
Supervised work experience with agency, firm or organization that uses engineers. Second work period of five-year academic/work experience program. Prerequisites: sophomore standing in mechanical engineering and consent of engineering co-op advisor.

310-Thermodynamics I - 3 FM
Classical thermodynamics: properties of pure substances, ideal gas law, work and heat, first and second laws, entropy, Rankine
cycle. Prerequisite: ME 262 and MATH 250 with C or better, (concurrency allowed in ME 262).

312-3 Thermodynamics II - 3
Some power and refrigeration cycles; mixtures and solutions; chemical reactions and chemical equilibrium; irreversible and availability; thermodynamic relations. Prerequisite: ME 310 with a minimum grade of C.

315-Fluid Mechanics – 3 (Same as CE 315) FS
Basic principles of conservation of mass, momentum and energy in fluid systems; dimensional analysis, compressible and incompressible flow, boundary layers. Prerequisites: upper-division standing in mechanical or civil engineering, CE 242 with a minimum grade of C or concurrent enrollment, or consent of instructor.

350-Mechanisms - 3 FM
Kinematic analysis and synthesis of four bar linkages, cams, gears and other mechanisms; D'Alembert principle, dynamic force analysis, balancing, gyroscopic effects. Prerequisite: ME 262 and ME 354 with a minimum grade of C (concurrent enrollment allowed in ME 354).

354-Numerical Simulation - 1
Simulation software, numerical solution of algebraic and differential equations, simulation. Prerequisite: MATH 305 with a minimum grade of C or concurrent enrollment.

356-Dynamic Systems Modeling - 3 FS
Laplace transformation; transfer functions. Modeling of dynamic systems involving mechanical, electrical, fluid and thermal components. Static state space description, Computer simulations. Frequency response and bode plot. Prerequisites: ME 262, ME 354 with minimum grade of C (concurrent enrollment allowed in ME 354), ECE 210 and MATH 305 with a minimum grade of D.

356L-Dynamical Systems Laboratory - 1 FS

370-Materials Engineering - 3 FS
Atomic, molecular and crystalline structures; effect of micro- and macrostructure on properties; equilibrium and non-equilibrium; multiphase systems; metallic, ceramic and polymeric materials. Prerequisite: CE 242 with a minimum grade of C or concurrent enrollment.

380-Design of Machine Elements - 3 (Same as MRE 380) FS
Stress and deformation; buckling; failure theories for static and fatigue loading; design of gears, shafts and other. Prerequisite: CE 242 and ME 354 with minimum grade of C (concurrent enrollment allowed in ME 354).

380L-Stress Laboratory - 1 S
Measurement of stress and strain. Stress concentration. Combined loading. Material strength and failure. Prerequisite: ME 380 with a minimum grade of C or concurrent enrollment.

398-Mechanical Engineering Work Experience III - 0 SM
Supervised work experience with agency, firm, or organization which uses engineers. Intended for students who have part-time cooperative experience jobs. Limited to students enrolled in more than 6 credit hours. Prerequisite: ME 298.

399-Mechanical Engineering Cooperative Education III - 0 FSM
Supervised work experience with agency, firm or organization which uses engineers. Third work period of five-year academic/ work experience program. Prerequisites: junior standing in mechanical engineering and consent of engineering co-op advisor.

410-Heat Transfer - 3 FS
Steady and unsteady conduction, transient numerical method; principles of convection; empirical relations for forced-convection heat transfer, radiation heat transfer, heat exchangers. Design project. Not for graduate credit. Prerequisites: ME 310 and ME 315 with a minimum grade of C in each course.

410L-Thermal Science Laboratory - 1 FS
Applications of thermodynamics and fluid mechanics laws; pipe flow measurements, Bernoulli experiment, wind tunnel measurements, refrigeration cycle; compressor and pump experiments; steam generator. Not for graduate credit. Prerequisite: ME 410 with a minimum grade of C or concurrent enrollment.

414-Gas Dynamics - 3 F
Basic equations of compressible flow, isentropic flow of perfect gas; normal shock waves, oblique shock waves; flow with friction and heat loss, applications. Prerequisites: 310 and 315 with a minimum grade of C or better or graduate standing.

416-Thermal Science Design - 3
Selected topics such as heat exchangers, steam generators, combustion and two phase flow systems considered for design projects. Application of design emphasized. Not for graduate credit. Prerequisite: ME 410 with a minimum grade of C.

417-Heating, Ventilating, and Air Conditioning (HVAC) - 3
Air-conditioning systems, psychrometrics, indoor air quality, heating and cooling loads, pumps and fans, duct design, refrigeration. Prerequisite: ME 410 with C or better, or concurrent enrollment, or graduate standing.

418-Internal Combustion Engines - 3
Thermodynamics of internal combustion engine cycles; gasoline and diesel engines; engine design considerations; engine heat release, fuel-air and combustion; valves and heat losses. Prerequisite: ME 410 with a minimum grade of C or concurrent enrollment and ME 312 with a minimum grade of C.

419-Gas Turbines - 3
Quasi-one-dimensional compressible flow; ideal and non-ideal gas turbine cycles, gas turbines for power, turbojet, turbofan; component performance; engine off-design performance; engine design considerations. Prerequisite: 312 and 315 with a minimum grade of C or better.

420-Alternative Energy Systems - 3
Global and national energy consumption, hydropower, wind energy, solar energy, fuel cells, biomass, geothermal energy, ocean energy, and nuclear energy. Prerequisite: 410 with a minimum grade of C or better or concurrent enrollment.

432-Vehicle Dynamics and Technology - 3
One dimensional dynamics of a vehicle, acceleration performance, braking performance, powertrain, tire mechanism, steering mechanism, low and high speed cornering, and suspension system. Prerequisites: ME 350 with a C or better or Graduate standing.

438-Mechanical Engineering Project – 3 to 6
Individual laboratory projects of research, design, or developmental nature to study principles of engineering systems or components. Not for graduate credit. Prerequisites: senior standing in mechanical engineering and consent of department chairperson.

442-Microelectromechanical Systems - 3
Fundamental science, design, and fabrication of MEMS and Microsystems, scaling laws, MEMS flexures, capacitive, piezoelectric, piezoresistive, and thermal sensing and actuation. Prerequisites: ME 315, ME 356, ME 370, ME 380 with grades of C or better or Graduate standing.

450-Automatic Control - 3
Modeling of dynamical systems, linearizations, stability and feedback control; Routh-Hurwitz Criteria, time domain and frequency domain response, Root Locus, feedback
compensator design. Prerequisites: ME 356 with a minimum grade of C or Graduate standing.

452-Vibrations – 3  
Vibration of single and multi-degree of freedom systems; natural frequencies and natural modes; vibration isolation. Structural response to ground excitation. Prerequisites: ME 262, CE 242, MATH 305 with a minimum grade of C or better in each course or Graduate standing.

454-Robotics: Dynamics and Control - 3  (Same as ECE 467)  
Robotics, robot kinematics and inverse kinematics, trajectory planning, differential motion and virtual work principle, dynamics and control. Prerequisites: consent of instructor.

458-Mechatronics - 3  
Dynamic response; fundamentals of electronic and logic circuits; sensors and instrumentation for strains, movements and fluid flow, actuators and power transmission devices; feedback control. Two hours lecture and one laboratory session per week. Approved for graduate credit. Prerequisites: ME 356 with a minimum grade of C or better or Graduate standing.

466-Digital Control - 3  (Same as ECE 466)  
Topics include finite difference equations, z-transforms and state variable representation, analysis and synthesis of linear sampled-data control systems using classical and modern control theory. Prerequisites: ME 450 or ECE 365 with a minimum grade of C or better or Graduate standing.  

470-Stress Analysis and Design - 3  
Three dimensional torsion and bending; stress and strain transformations; yield criteria and plasticity theory; finite element method; case studies and engineering design. Prerequisites: ME 370 and CE 242 with a minimum grade of C in each course, or Graduate standing (concurrent enrollment is allowed in ME 370).

472-Engineering Fracture Mechanics - 3  
Mechanisms of fracture and crack growth; the elastic and plastic crack-tip stress fields; case studies and design analysis. Not for graduate credit. Prerequisites: ME 370 and CE 242 with a minimum grade of C in each course.

474-Mechanics of Composite Materials - 3  
Micro- and macro-mechanical behaviors of lamina; micro- and macro-mechanical behaviors of laminate, laminated plates; case studies and design. Not for graduate credit. Prerequisites: ME 370 and CE 242 with a minimum grade of C in each course.

482-Mechanical Engineering Design I - 2  
Problem solving methodology used in design, analysis and synthesis of mechanical and thermal systems; exploring, selecting, documenting, writing and presenting a project proposal. Not for graduate credit. Prerequisite: ME 350, ME 370 and ME 380 with a minimum grade of C in each course.

484-Mechanical Engineering Design II - 2  
Application of engineering principles and sciences to the design of mechanical systems or processes; production of working prototypes or simulated models; writing and presenting final project reports. Not for graduate credit. Prerequisite: ME 482 with a minimum grade of C.

492-Topics in Mechanical Engineering - 1 to 6  
Selected topics of special interest in mechanical engineering. May be repeated to a maximum of 6 hours so long as no topic is repeated. Not for graduate credit. Prerequisites: senior standing in mechanical engineering and consent of department chair.

Mechatronics and Robotics Engineering (MRE)  

198-Mechatronics and Robotics Engineering Work Experience I - 0  
FSM  
Supervised work experience with agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs.

199-Mechatronics and Robotics Engineering Cooperative Education I - 0  
Supervised work experience with agency, firm or organization that uses engineers. First work period of five-year academic/ work experience program. Declared major only. Prerequisite: Consent of advisor.

298-Mechatronics and Robotics Engineering Work Experience II - 0  
FSM  
Supervised work experience with agency, firm, or organization that uses engineers. Second work period of five-year academic/ work experience program. Declared major only. Prerequisite: Consent of advisor.

320-Sensors and Actuators - 3  
S  
Sensors and transducers for motion, force, pressure, temperature, and fluid flow. Dynamic range, repeatability, sensitivity, and noise. Instrumentation and interface for sensors. Actuators and their controls. Prerequisites: ME 356 with a grade of C or better.

358-Introduction to Mechatronics - 3  
S  
Dynamic response; fundamentals of electronic and logic circuits; sensors and instrumentation for strains, movements, and fluid flow; actuators and power transmission devices; feedback control. Prerequisites: ME 356 with grade of C or better.

380-Design of Machine Elements - 3  (same as ME 380)  
FS  
Stress and deformation; buckling; failure theories for static and fatigue loading; design of gears, shafts and other. Prerequisite: CE 242 and ME 354 with minimum grade of C (concurrent enrollment allowed in ME 354).

398-Mechatronics and Robotics Engineering Work Experience III - 0  
FSM  
Supervised work experience with agency, firm, or organization that uses engineers. Intended for students who have part-time cooperative experience jobs. Prerequisites: consent of advisor.

399-Mechatronics and Robotics Engineering Cooperative Education III - 0  
Supervised work experience with agency, firm or organization that uses engineers. Third work period of five-year academic/ work experience program. Declared major only. Prerequisite: Consent of advisor.

424-Control Implementation - 3  
Discretization, z-transform, simulation, real-time programming, implementation of digital compensators on a microcontroller, and performance comparison. Prerequisites: ME 450 or ECE 365, ECE 282; all with grade of C or better.

454-Robotics: Dynamics and Control - 3  (Same as ECE 467 and ME 454)  
F  
Robotics, robot kinematics and inverse kinematics, trajectory planning, differential motion and virtual work principle, dynamics and control. Prerequisites: consent of instructor.

477-Computer Integrated Manufacturing Systems - 3  (Same as IE 477, 2 hours lecture, 2 hours laboratory)  
S  
Application of robot theory integrated with automated manufacturing systems. Emphasis on design laboratory exercises. Prerequisites: IE 470, IE 476; CS 145 with a minimum grade of C or better better in each course or consent of instructor, or Graduate standing.

480-Design in Mechatronics and Robotics I - 2  
F  
Problem solving methodology used in design, analysis and synthesis of robotics, mechatronics and automation; exploring,
selecting, documenting, writing and presenting a project proposal. Prerequisites: ECE 211 with minimum grade of C and at least two of the following four courses with minimum grade of C: MRE 320, 358, 454, and ME 450.

481-Design in Mechatronics and Robotics II - 2 S Application of engineering principles to sciences to the design of systems or processes in Robotics, Mechatronics, or Automation; production of working prototypes or simulated models; writing and presenting final project reports. Prerequisites: MRE 480 with grade of C or better.

492-Topics in Mechatronics and Robotics Engineering - 1 to 6 FSM Selected topics of special interest in mechatronics and robotics engineering. May be repeated to a maximum of 6 hours so long as no topic is repeated. Not for graduate credit. Prerequisites: Senior standing in mechatronics and robotics engineering and consent of department chair.

Military Science (MSC)

101-Introduction to Military Science - 2 F Introduction to the Army and critical thinking. Issues and professional competencies central to a commissioned officer’s responsibilities. Establish a framework for understanding officership, leadership, and Army values. Includes subjects such as goal setting, time management, and health and fitness. EH

102-Introduction to Military Operations - 2 S Introduction to the profession of arms and professional competence. Study of the modern battlefield and its relationship to leadership, team building, and stress management. Individual communication skills and group dynamics are stressed. Comprehends the Army as a values based organization.

122-Survivor Training - 2 FS Students learn survival and leadership skills to include: Locate food/water, make shelter, conduct land navigation, climate adjustment, first aid, rappelling, and water survival.

201-Applied Military Leadership - 3 F Detailed instruction and practical exercises in leadership, team building, problem solving, planning, organizing and decision-making. Army Values and Warrior Ethos and their relationship to Army Leadership and the American people. Prerequisites: 101, 102, or prior service and instructor approval.

202-Army Doctrine and Team Development - 3 S Army Doctrine, the Law of Land Warfare and cultural awareness are covered. Instruction in use of analytical aids in planning, organizing, and controlling a changing environment. Team building and tactical decisions are studied. Prerequisites: 101, 102, 201 or prior service and instructor approval.

222-The Art of War - 3 History and evolution of warfare from the Ancient Greeks to contemporary warfare. Key military leaders and campaigns will be analyzed.

301-Advanced Leadership and Management - 3 F Platoon operations. Review of skills, techniques and concepts required by the small-unit leader: troop leading procedures, land navigation skills, tactical organization, communications skills, and offensive tactics. Prerequisites: 201, 202 or prior service and instructor approval. EH

302-Small-Unit Leadership and Tactics - 3 S Review of skills, techniques, and concepts required by the small-unit leader: risk management, troop-leading procedures, fire-control skills, motivation skills, communications skills, tactical analysis, and offensive tactics. Prerequisites: 201, 202, 301 or prior service and instructor approval.

401-Leadership and Management - 3 F Mission command and Army operations, training management, Army leader ethics, communications, leadership skills, staff organization and coordination, as well as counseling skills. Explores practical aspects of military law. Not for graduate credit. Prerequisites: 301, 302 and instructor approval.

402-Officership - 3 S Mission command at the company grade level. Development of interpersonal skills required for effective management with particular emphasis on the military environment. Reviews various roles of the newly commissioned Army officer. Not for graduate credit. Prerequisites: 301, 302, 401 and instructor approval.

490-Independent Study - 3 FS Students accomplish a task or project based on initial counseling and consideration of student learning goals and department capabilities. Develops student’s ability to work with minimal supervision, establish goals, meet deadlines, and execute project management.

495-Special Topics in Military Science - 3 FS Advanced and specialized topics of current concern to the field of military science. Examples may include advanced survival training, military mountaineering and rappelling, advanced military career fields, and other significant topics.

Music (MUS)

100-Convocation – 0 FS Exposure to a wide variety of musical repertory as performed by students from the Department of Music. FPA

101-Special Topics in Music – 0 to 3 Special topics in music. May be repeated twice for a maximum of 6 hours provided no topic is repeated. FPA

111-Introduction to Music History/Literature - 3 FSM Elements of music. Important composers, periods, styles and forms of music. BFP, IFAH [IAI No. F1 900]

112-Class Applied Woodwinds - 1 Introductory methods for teaching selected woodwind instruments (saxophone, clarinet, flute, oboe, bassoon) in elementary and secondary schools. FPA

113-Class Applied Brass - 1 F Introductory methods for teaching these instruments in elementary and secondary schools. FPA

114-Class Applied Percussion - 1 F Introductory methods for teaching these instruments in elementary and secondary schools. FPA

115a,b-Class Applied Voice – 1 each F/S Training in singing, diction, and teaching voice students. Introductory. Must be taken in sequence. FPA

116-Class Applied Strings - 1 S Introductory techniques and methods for teaching selected string instruments (violin, viola, cello, bass) in elementary and secondary schools. FPA

120a,b -Fundamentals of Music – 2 each (a) Keyboard; (b) Theory. Introduction to reading music including pitch, scales, key signatures, intervals, rhythm, time signatures, and notation. Prerequisites: 120a - Music Theory Fundamentals Diagnostic and instructor permission; 120b - Music Theory Fundamentals Diagnostic and instructor permission, or MUS 120a with a grade of C or better. BFP, IFAH
121a -Class Applied Piano – 1 each
Practical instruction for passing proficiency examination in piano which is required for all music concentrations. Must be taken in sequence. Prerequisite: Complete the Music Theory Fundamentals Diagnostic at 90% or better, or complete MUS 120b with a grade of B or better. Concurrent enrollment in MUS 125a required.
FPA

121b -Class Applied Piano – 1 each
Practical instruction for passing proficiency examination in piano which is required for all music concentrations. Must be taken in sequence. Concurrent enrollment in MUS 125a required. Prerequisite: 121A and 125A with grades of C or better. Concurrent enrollment in MUS 125B required.
FPA

124-Foundations of Music - 3
Overview of the principles and procedures applicable to reading, writing, and perception of music including, rhythm, pitch, notation, scales, keys, intervals, chord structures; symbols and performance terms with reference to application to musical form and design.
BFPA, DFAH

125a -Theory of Music – 3 each
Fundamentals of music including notation, tonal harmony, rhythm, voice leading, counterpoint, and form. Must be taken in sequence. Prerequisite: Complete the Music Theory Fundamentals Diagnostic at 90% or better, or complete MUS 120b with a grade of B or better. Concurrent enrollment in MUS 121a (or proficiency) and MUS 126a are required.
BFPA, DFAH

125b -Theory of Music – 3 each
Fundamentals of music including notation, tonal harmony, rhythm, voice leading, counterpoint, and form. Must be taken in sequence. Lab required. Concurrent enrollment in MUS 121B and 126B are required. Prerequisite: Music 125A with a C or better.
BFPA, DFAH

126a -Aural Skills – 1 each
Ear training and sight singing. Must be taken in sequence. Concurrent enrollment in MUS 121A and 126A are required. Consent of advisor.

126b -Aural Skills – 1 each
Ear training and sight singing. Must be taken in sequence. Prerequisite: MUS 121A, 125A, and 126A with a grade of C or better or proficiency. Concurrent enrollment in MUS 121B and 125B are required. Consent of advisor.
BFPA, DFAH

139a,b-Diction for Singers – 2 each
Knowledge of diction through use of the International Phonetic Alphabet and its application to song literature. (a) English, Italian, German; (b) German and French. Must be taken in sequence. Prerequisite: admission to 140q, permission of instructor.
FPA

140, 240, 340, 440a-x–Private Applied Music - 2 or 4 each
Offered at four levels in areas listed. Credit is given at 2 or 4 hours at each level. Partial junior recital required of performance majors. Full senior recital required for performance majors and partial senior recital required for music education majors. Consult with advisor for details of credit requirements. May be repeated for two semesters at each level. Students with concentration in Performance usually take 4 hours. Concentrations in Music Education and all secondary concentrations usually take 2 hours. Performance class required. Concurrent enrollment in major ensemble required. Prerequisites: for 140, music concentration or secondary concentration or consent of music faculty; for higher levels, 2 semesters at previous level on same instrument or permission of instructor. a) Violin, b) Viola, c) Cello, d) String Bass, e) Flute, f) Oboe, g) Clarinet, h) Bassoon, i) Saxophone, j) Percussion, k) Piano, l) Horn, m) Trumpet, n) Trombone, o) Tuba, p) Baritone, q) Voice, r) Organ, s) Harpsichord, t) Harp, u) Guitar, w) Conducting, x) Accompanying.
FPA

141, 241, 341, 441d-u-Private Jazz – 2 or 4 each
Individual instruction in performance of various jazz styles. Offered at four levels in areas listed. Credit is given at 2 or 4 hours at each level. Consult with advisor for details of credit requirements. May be repeated for two semesters at each level. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Prerequisites: for 141, permission of instructor; for higher levels, two semesters at previous level on same instrument. d) Bass, i) Saxophone, j) Percussion, k) Piano m) Trumpet, n) Trombone, q) Voice, u) Guitar.
FPA

144- Women's Glee – 0 or 1
Non-auditioned chorus open to singers campus-wide who desire a quality experience featuring outstanding repertoire. May be repeated up to 8 hours.
FPA

165a,b -Piano Practicum – 1 each
Keyboard harmony, sight reading, transposition, improvisation, technique, ensemble skills. Must be taken in sequence. Required for all keyboard majors.
FPA

201-Introduction to Music Education - 1
Explore music teaching as a vocation. Off-campus visits to schools required outside class time: Freshman standing or permission of instructor.
BFPA

212a,b -Applied Composition – 2 each
Original composition. Theory/Composition majors must earn a grade of B or better. Prerequisite: 125b with a grade of B or better or permission of instructor.
FPA

221a,b -Class Applied Piano – 1 each
Practical instruction for passing piano proficiency required for all music concentrations. Must be taken in sequence. Prerequisite: 121b or instructor permission.
FPA

222- University Band – 0 or 1
Wind/Percussion ensemble. No audition required. May be repeated.
FPA

225a,b -Theory of Music – 4 each
Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, introduction to contemporary harmonic principles. Must be taken in sequence. Prerequisites: a) 111, 125b b) 226a.
BFPA, DFAH

227-Introduction to Composition - 2
Introduction to materials and methods of composition, including notation, melody, harmony, rhythm, philosophy, and style. Weekly composition studio class required. Prerequisite: 225a with grade of B or better, or permission of instructor.
FPA

230-Beginning Improvisation - 1
Theory and techniques, functional harmony, melodic form, special scales, tune studies, ear training, development of style. Repeatable to 4 hours. Prerequisite: permission of instructor.
FPA
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>321-</td>
<td>Jazz Keyboard Theory - 2</td>
<td>F</td>
<td>Jazz Keyboard theory is designed for (but not limited to) Jazz Performance majors as a jazz theory course using piano keyboard and computer as the facilitator. Prerequisite: permission of instructor. BFPA, DFAH</td>
</tr>
<tr>
<td>233-</td>
<td>Guitar Ensemble – 0 or 1</td>
<td>FS</td>
<td>May be repeated. Prerequisite: permission of instructor. BFPA</td>
</tr>
<tr>
<td>240a-x</td>
<td>Private Applied Music – 2 or 4</td>
<td>See 140.</td>
<td>FPA</td>
</tr>
<tr>
<td>241d-u</td>
<td>Private Jazz - 2 or 4</td>
<td>See 141.</td>
<td>FPA</td>
</tr>
<tr>
<td>244-</td>
<td>Community Choral Society – 0 or 1</td>
<td>FS</td>
<td>Performs literature from all eras. Open to all students. May be repeated. FPA</td>
</tr>
<tr>
<td>267-</td>
<td>History of Music – 2</td>
<td>FS</td>
<td>Includes significant topics and repertories in European music history before c.1800. Prerequisite: MUS 125a with grade of C or better. FPA, BHUM, DFAH, EGC, IC</td>
</tr>
<tr>
<td>300-</td>
<td>Music in the Elementary Classroom - 3</td>
<td>FPA</td>
<td>Music methods for the elementary classroom teacher. Not for music education major: (see 301a). BFPA, DFAH</td>
</tr>
<tr>
<td>301a-c</td>
<td>Music Education Methods – Elementary, Secondary (Vocal), Secondary (Instrumental) - 2 each</td>
<td>F/S/F</td>
<td>Teaching music: (a) Elementary. (b) Secondary-Vocal and General; (c) Secondary- Instrumental. For music concentration only. Must be taken in sequence. Prerequisite: 112, 115a/b, 116, 201, 221a/b, 318a/b, 225b and CI 200 or CIED 100 all with grades of C or better. FPA</td>
</tr>
<tr>
<td>305-</td>
<td>Non-Western Music - 3</td>
<td>M</td>
<td>Basic elements of music and perceptive listening as they relate to non-Western music. Examines the music culture of several non-Western societies. BFPA, DFAH, EGC</td>
</tr>
<tr>
<td>309-</td>
<td>Orchestration - 3</td>
<td>F</td>
<td>Writing for orchestral instruments. Prerequisite: 225b or permission of instructor. BFPA, DFAH</td>
</tr>
<tr>
<td>312a.b</td>
<td>Applied Composition - 2 each</td>
<td>FS/S</td>
<td>Original composition. Must be taken in sequence. Weekly seminar required. Prerequisite: 227 or permission of instructor. BFPA, DFAH</td>
</tr>
<tr>
<td>318a,b</td>
<td>Conducting - 2 each</td>
<td>F/S</td>
<td>(a) General fundamental conducting patterns, conducting experience, musical terminology; (b) choral and instrumental conducting experience; rehearsal techniques; analysis of literature; suitable for all levels of ability. Must be taken in sequence. Prerequisite: (a &amp; b) 225b, (b) 318a. FPA</td>
</tr>
<tr>
<td>322-</td>
<td>Wind Symphony - 0 or 1</td>
<td>FS</td>
<td>May be repeated. Prerequisite: audition with instructor. FPA</td>
</tr>
<tr>
<td>326-</td>
<td>Analysis – 3 each</td>
<td>F</td>
<td>Exploration of important musical forms and styles from both a theoretical and historical context. Prerequisite: MUS 225b with grade of C or better. FPA</td>
</tr>
<tr>
<td>330-</td>
<td>Intermediate Improvisation - 1</td>
<td>FS</td>
<td>Theory and techniques, functional harmony, melodic form, special scales, tune studies, ear training, development of style. May be repeated. Prerequisite: audition with instructor. FPA</td>
</tr>
<tr>
<td>331-</td>
<td>Jazz Keyboard Theory - 2</td>
<td>S</td>
<td>Course is designed for (but not limited to) Jazz Performance majors as a jazz theory course using the piano keyboard and computer as the facilitator. Prerequisite: 231b or instructor permission. BFPA, DFAH</td>
</tr>
<tr>
<td>333-</td>
<td>Jazz Combo – 0 or 1</td>
<td>FS</td>
<td>Small Jazz ensemble performance experiences which stress improvisation. Jazz styles ranging from swing to contemporary jazz/rock fusion. Difficulty levels vary according to the abilities of students. May be repeated. Prerequisite: by audition with instructor. FPA</td>
</tr>
<tr>
<td>337-</td>
<td>Evolution of Jazz Styles - 3</td>
<td>F</td>
<td>For music majors. Historical research and analysis of particular styles of jazz innovators. FPA</td>
</tr>
<tr>
<td>338-</td>
<td>Jazz - 3</td>
<td>S</td>
<td>Jazz forms and styles: development, illustrations, performance. BFPA, DFAH, EUSC</td>
</tr>
<tr>
<td>340a-x</td>
<td>Private Applied Music – 2 or 4</td>
<td>See 140.</td>
<td>FPA</td>
</tr>
<tr>
<td>341d-u</td>
<td>Private Jazz - 2 or 4</td>
<td>See 141.</td>
<td>FPA</td>
</tr>
<tr>
<td>342-</td>
<td>Musical Theater Ensemble - 0 or 1</td>
<td>S</td>
<td>Participation in a musical theater production under the auspices of the theater and/or music departments. May be repeated. Prerequisite: audition with instructor. FPA</td>
</tr>
<tr>
<td>343-</td>
<td>Seminar in Musical Theatre Audition Techniques - 1</td>
<td>F</td>
<td>This course will discuss Musical Theatre audition techniques. Topics will include: song selection and preparation, monologues, dance callbacks, interviews, resumes, and headshots. Prerequisite: Permission of Instructor. FPA</td>
</tr>
<tr>
<td>355a-d</td>
<td>Chamber Music Ensembles – 0 or 1 each</td>
<td>See 140.</td>
<td>FPA</td>
</tr>
<tr>
<td>365-</td>
<td>Piano Ensemble – 0 or 1</td>
<td>FS</td>
<td>Vocal and instrumental accompanying; chamber music and piano duo literature. May be repeated up to 8 times. Requires consent of instructor. FPA</td>
</tr>
<tr>
<td>367a-</td>
<td>History of Music II – 2</td>
<td>F</td>
<td>Includes significant topics and repertories in European music history c.1800 to the present. Prerequisite: MUS 267 and MUS 125b with a grade of C or better or consent of instructor; or MUS 125b with a grade of C or better (Musical Theater majors only). BHUM, DFAH, EGC, FPA, IC</td>
</tr>
<tr>
<td>367b-</td>
<td>History of Music III – 2</td>
<td>S</td>
<td>Examines genres, styles, and global connections in European and other musical traditions. Prerequisite: MUS 367a and MUS 225a with a grade of C or better, or permission of instructor. BHUM, DFAH, EGC, FPA, IC</td>
</tr>
<tr>
<td>377-</td>
<td>University Symphony Orchestra - 1</td>
<td>FS</td>
<td>May be repeated. Prerequisite: audition with instructor. FPA</td>
</tr>
</tbody>
</table>
390- Junior Recital – 0
Public recital by candidates for major in performance. Prerequisite: MUS 140/141 - 340/341 all instruments and voice.
FPA

395a,b -Music Business – 3 each F/S
Survey of Music Industry through study of music publishing, copyright, licensing, artist management, record production and merchandising, concert promotion, arts administration, advertising and music in retail.
BFPA, DFAH

400a-t-Senior Assignment - 0
Specific projects are assigned per degree program and are embedded in upper-level coursework. (a) B.A. Music; (b) Music Business; (c) Music Composition; (e) Music Education; (h) Music History/Literature; (j) Jazz Performance; (p) Music Performance; (f) Music Theory. Prerequisite: Senior standing or permission of instructor.

400z-Specific Projects in Music – 0 to 3
Designed for students who will be involved with a specific project: traveling to perform, present, or to develop specific skills related to major.

401-Psycho-Physiology of Music - 2
Human capacities, their relationship to musical potentials and development. Acoustical foundations of music. Prerequisite: permission of instructor.
FPA

409a,b -Jazz Arranging – 2 each F/S
Basic skills of arranging for combo; big band; studio orchestra. Writing project required for each course section. Not for graduate credit. Prerequisites: 225b, 231b, or permission of instructor; for 409b: 409a with C or better.
FPA

411a-g -Music Literature – 2 each (a) Symphonic; (b) Choral; (c) Chamber; (d) Opera; (e) Special Areas; (f) Vocal; (g) 20th Century. Study of period, composer, style or medium. May be repeated so long as topic is different. Not for Graduate credit. Prerequisite: 225b or permission of instructor.
FPA

412a,b -Applied Composition – 4 each
Original composition. Must be taken in sequence. Prerequisite 312b or permission of instructor.
BFPA, DFAH

413a,b -Piano Literature – 2 each (a) Baroque to early Romantic; (b) Romantic and Contemporary. Prerequisite: 357b or permission of instructor.
FPA

415-Class Applied Voice - 2
Singing, diction, and voice pedagogy for music majors with minimal vocal experience.
FPA

419-Vocal Teaching Techniques and Materials - 2
Principles of vocal production and methods of teaching voice. Prerequisite: 225b with a grade of C or better. Music majors, senior level in specialization-voice performance.
BFPA

420-Music Education Practicum - 1
Shop laboratory course. Selection adjustments, maintenance, and repair of musical instruments.
FPA

422 - Wind Ensemble – 1
May be repeated. Not for graduate credit.
FPA

426a -Advanced Music Theory: Music since 1900 - 2
This music theory course will focus on understanding and analyzing music of the modern (post-tonal) era. Learning will involve written, aural and compositional experiences. Prerequisite: 326 & 357b
FPA

430-Advanced Improvisation - 1 FS
Variety of jazz structures. Real-time composition and analysis. Students should know principles of note selection, time-feel, phrasing and articulation as developed in 330. May be repeated up to 6 hours. Not for graduate credit. Prerequisite: 225b and 330(2) or equivalent.
FPA

433-Concert Jazz Band – 0 or 1 FS
May be repeated up to 8 hours. Not for graduate credit. Prerequisite: audition with instructor.
FPA

436-Jazz Education - 2
Teaching jazz at elementary, secondary, and college levels, both group and individual instruction. Prerequisite: 225b or permission of instructor.
FPA

439-Recording Techniques - 2 F
Technical understanding of equipment used in basic digital recording studios: microphones; equalization; mixing; hard disk recording and 24 track recording formats.
FPA

440a-x - Private Applied Music – 2 or 4 See 140. Prerequisite: 225b.
FPA

441d-u -Private Jazz - 2 or 4 see 141.
FPA

441x-Private Applied Accompanying – 2 to 4 Accompanying. Offered at five levels in areas listed. Credit is given at 2 or 4 hours at each level. Consult with adviser for details of credit requirements. May be repeated for two semesters at each level. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Performance class required. Prerequisites: For 140, music concentration or secondary concentration or consent of music faculty; for higher levels, 2 semesters at previous level on same instrument or permit required.
FPA

442-Counterpoint - 3 S
Sixteenth and Eighteenth century contrapuntal techniques. Prerequisite: MUS 225b with C or better, or permission of instructor.
BFPA, DFAH

444-Concert Choir – 0 or 1 FS
Emphasis on unaccompanied literature and larger choral works. Touring choir. May be repeated. Not for graduate credit. Prerequisite: audition with instructor.
FPA

460a,b-Opera Workshop - 0 to 2 each Skills, techniques, and literature used in performance and production of operatic scenes, operas, operettas. May be repeated for up to 16 hours.
FPA

461a,b-Piano Teaching Techniques and Materials – 3 each (a) Methods; (b) Materials. Problems of private studio teaching and college level teaching. Must be taken in sequence. Prerequisite: (b) 340k or permission of instructor.
BFPA, DFAH

465-Development and Teaching of Strings - 2 FS
String education in Elementary and Secondary schools. Techniques of heterogeneous and homogeneous string teaching. Resource aids. May be repeated up to 8 hours. Prerequisite: permission of instructor.
FPA
466-Madrigal Singers – 0 or 1
Emphasis on Renaissance Literature. Touring choir. May be repeated to a maximum of 4 hours. Not for graduate credit. Prerequisite: audition with instructor.
FPA

472 a.b- Arranging – 3 each
(a) Instrumental; (b) Choral. Basic skills of arranging for large ensembles. Writing project required. May be repeated so long as topic is different. Prerequisite: 309a with a grade of B or better, or permission of instructor.
FPA

481-Readings in Music Theory – 1 to 3
May be repeated for up to 6 hours. Prerequisite: permission of instructor.
FPA

482-Readings In Music History/Literature – 1 to 3
May be repeated for up to 6 hours. Prerequisite: permission of instructor.
FPA

483-Readings in Music Education - 2
May be repeated for up to 6 hours. Prerequisite: permission of instructor.
FPA

485-Piano Technology for the Pianist - 2
A hands on look at the acoustics and mechanics of the piano, including regulation, tuning, maintenance, and purchasing. Not for graduate credit. Prerequisite: MUS 225a,b or permission of instructor.
FPA

487-Computer Music Workshop for Teachers - 2
Designed for in-service teachers of music wishing to explore hardware and software currently available for use in schools. A hands-on, project-oriented approach is utilized. Limited enrollment. Prerequisite: permission of instructor.
FPA

490-Graduation Recital - 0
(Performance specialization) Public recital by candidates for major in Music Performance and Music Education. Prerequisite: Grade of C or better in MUS 140/141 - 440/441 A - X.
FPA

495-Supervised Internship in Music Business - 12
Involves at least 15 weeks (10 weeks for summer internships) of full-time (minimum 4-5 hours per day) work experience with music industry under supervision of faculty and/or person in music industry. Not for graduate credit. Prerequisite: 395(6).
FPA

499-Independent Study – 1 to 3
Independent research under the supervision of a faculty specialist. May be repeated up to 6 hours. Prerequisite: permission of instructor.
FPA

Nursing (NURS)

199-Nursing Cooperative Education Internship - 0
Supervised work activity with hospitals, agencies, or organizations providing a learning environment for nursing students. Students will receive a grade of pass or no credit.
FPA

231-Examination of the Role of the Professional Nurse - 4
Focus on the examination of various roles, functions, and tools of the nurse. Use of therapeutic communication, clinical reasoning, evidence, and components of patient-centered care.
FS

234-Human Development Across the Lifespan - 3
Study of human growth and development and variations from conception to old age. Includes development of physiological, psychological, socio-cultural, moral, ethical and spiritual systems. Prerequisites: PSYC 111 or consent of instructor for non-majors. Advisor registration required.
FS

240-Pathophysiology - 4
Applies major concepts from sciences and humanities to explain health alterations in individuals of all ages. Organized according to Gordon’s functional health pattern categories. Prerequisites: BIOL 240 a,b and BIOL 250; CHEM 120a,b/124a,b or CHEM 120n/124n or equivalents; admission to the School of Nursing or consent of instructor. Advisor registration required.
LS

240R-Pathophysiology (RN to BS only) - 4
Applies major concepts from sciences and humanities to explain health alterations in individuals of all ages. Prerequisites: BIOL 240 a,b and BIOL 250 or equivalents with a grade of C or better. Advisor registration required.
LS

246-Foundation and Assessment in Nursing Practice - 6
Fundamental concepts and health assessment skills used in nursing practice as organized by Gordon’s Functional Health Patterns. Includes classroom, lab, and practicum experiences.
FPA

299-Nursing Cooperative Education Internship - 0
Supervised work activity with hospitals, agencies, or organizations providing a learning environment for nursing students. Students will receive a grade of pass or no credit. Advisor registration required.
FPA

308-Special Topics in Nursing - 1 to 8
Selected topics of special interest, such as complex physiologic/psychological concepts, transcultural nursing, nursing history, policy formation, legal aspects of nursing practice, gerontological nursing. Prerequisites: completion of Semester 5 nursing courses. Advisor registration required.
FPA

335R-Health Assessment Strategies to Promote Wellness
(RN to BS only) - 3 (Same as NURS 335)
Health assessment, health literacy for health education and promotion. Prerequisites: 240R with grades of C or better. Advisor registration required.
FPA

341A- Pharmacology for Nurses- Adult Medicine - 2
Examine pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance, and restoration of wellness in diverse individuals across the lifespan.
FPA

341B- Pharmacology for Nursing- Specialty Courses - 2
Examine pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance, and restoration of wellness in diverse individuals across the lifespan.
FPA

342-Adult Health I - 5
Nursing management of human responses to actual and potential health problems that typically occur throughout the adult lifespan. Prerequisites: completion of 240, 246 with grades of C or better and concurrent enrollment in 341a. Advisor registration required.
FPA

343-Adult Health II - 5
Nursing management of human responses to actual and potential health problems that typically occur throughout the adult lifespan. Prerequisites: 240, 246, and 342 with grades of C or better and concurrent enrollment in 341a. Advisor registration required.
FPA

350R-Movies and Mental Illness: Understanding Psychopathology - 3
This course focuses on the portrayal of mental illness in films. Contemporary social issues such as stigma and discrimination will be examined. Prerequisites: completion of PSYC 111, Nursing major: completion of NURS 342, NURS 343, NURS 354, or NURS 355 or Psychology major: junior or senior level with grades of C or better. Advisor registration required.
351-Basic ECG Interpretation - 2
Identify dysrhythmias. Identify waveforms and associated physiologic processes. Analyze and interpret ECG rhythms and dysrhythmias. Prerequisites: completion of 240a and 240b with grades of C or better. Advisor registration required.

354-Care of Women and Childbearing Families - 5
Nursing management of human responses to common actual and potential health problems of women and childbearing families. Prerequisites: completion of 240 and 246 with grades of C or better and concurrent enrollment in 341b. Advisor registration required.

355-Care of Children and Adolescents - 5
Nursing management of human responses to actual and potential health problems that typically occur during childhood and adolescence. Prerequisites: completion of 240 and 246 with grades of C or better and concurrent enrollment in 341b. Advisor registration required.

399-Nursing Cooperative Education Internship - 0
Supervised work activity with hospitals, agencies, or organizations providing a learning environment for nursing students. Students will receive a grade of pass or no credit. Advisor registration required.

472-Nursing Research - 1 or 3
Emphasis on research process and interpretation of findings for use as a knowledgeable consumer in developing evidence based professional nursing practice. Prerequisites: 342, 343, 354, 355 with grades of C or better or consent of instructor. Advisor registration required.

472R-Scholarly Inquiry: Connecting Research to Practice (RN to BS only) - 3
Emphasis on utilizing the principles of nursing research to integrate all levels of evidence to develop projects to improve patient and/or system outcomes. Includes completion of Capstone I. Prerequisites: STAT 107 or equivalent, 240R, 335R, and 475R with grades of C or better. Advisor registration required.

474-Care of Persons with Mental Health Needs - 5
Nursing management of the person with actual or potential mental health needs. Not for graduate credit. Prerequisites: 342, 343, 354 and 355 with grades of C or better, or consent of instructor. Advisor registration required.

475-Care of Populations - 4
Nursing management of the population’s response to actual and potential health problems. Not for graduate credit. Prerequisites: 342, 343, 354 and 355 with grades of C or better, or consent of instructor. Advisor registration required. EH, EUSC

475R-Care of Populations (RN to BS only) - 4
Nursing management of the population’s response to actual and potential health problems. Not for graduate credit. Prerequisites: ENG 101, ENG 102, ACS 101 or 103, RA 101, PHIL 320 or 321, 240R, and 335R or equivalents with grades of C or better. Advisor registration required. EH, EUSC

476-Care of Persons with Complex Needs - 5
Nursing care of the individuals of all ages with complex health problems that involve the acute and chronic aspects of functional health problems. Not for Registered Nurses. Not for graduate credit. Prerequisites: 342, 343, 354 and 355 with grades of C or better, or consent of instructor. Advisor registration required.

480R-Nursing Leadership in Healthcare Systems (RN to BS only) - 4
This online course explores the role of the nurse as a leader and manager of nursing resources and professional development in a complex healthcare environment; includes clinical capstone III. Prerequisites: 240R, 335R, 472R, 475R, 484R with grades of C or better. Advisor registration required.

481-Nursing Leadership and Management - 3
Role of the nurse as a leader and manager of nursing resources. Includes topics related to professional development. Not for graduate credit. Prerequisites: 472 with a grade of C or better and concurrent enrollment in 474, 475 or 476. Advisor registration required.

482-Transition to Professional Practice Role - 4
Preceptored experiential course exploring the facets of practice as a professional nurse. Responsible for care provision of groups of people. Not for graduate credit. Prerequisites: 342, 343, 354, and 355. GPA of 3.0 or above in nursing courses. Advisor registration required.

482P-Professional Practice Role - 4
Experiential course exploring the facets of practice as a professional nurse. Responsible for care provision of groups of people within a precepted clinical experience. Prerequisites: 342, 343, 354, and 355. GPA of 3.0 or above in nursing courses. Advisor registration required.

483-Capstone Review of Nursing Coursework - 3
Focus of the course is to demonstrate the achievement of program outcomes. This course includes a general and focused review to prepare students for NCLEX. Not for graduate credit. For Nursing majors only (senior level students). Advisor registration required.

484R-Quality, Safety and the Professional Nurse (RN to BS only) - 4
Focus is on knowledge, skills and attitudes required to analyze, develop and implement safe patient care practice. Includes completion of Capstone II. Prerequisites: 240R, 335R, 472R, 475R with grades of C or better. Advisor registration required.

499-Independent Study - 1 to 6
Guided study in nursing topics, organized to meet objectives of individuals or small groups of undergraduate students in a particular area of interest. Not for graduate credit. Total earned hours may not exceed 6. Prerequisite: consent of instructor. Advisor registration required.

Nutrition (NUTR)

2205-Food Science - 3
Basic principles of food preparation. Emphasis on food chemistry and function of ingredients.

210-Food and Culture - 3
Cultural eating patterns and nutrition-related health problems of various ethnic/racial groups will be explored. Culture and counseling strategies will be emphasized.

250-Introduction to Human Nutrition - 3
Fundamental principles of nutrition, including the role of specific nutrients, digestion, absorption, and metabolism. Application of concepts as they relate to humans across the lifespan will be discussed. EH

319-Nutrition Biochemistry - 3
Biochemical mechanisms of nutrition and metabolism.

327-Lifecycle Nutrition - 3
Examine nutritional needs and issues throughout the lifespan with special emphasis on preconception, pregnancy, lactation, infancy, childhood, adolescence, and aging.

355-Sports Nutrition and Supplementation - 3 (Same as KIN 355)
In-depth review of the leading research and effective practices in sport nutrition and supplementation. Focus on increasing
athletic performance during training and competition. Declared major or minor only. Prerequisite: NUTR 250 or NUTR 319 or KIN 350 with C or better, or consent of instructor.

375-Community Nutrition - 3
FSM
Assessment, planning, and evaluation of community nutrition programs and policies using a systems approach. Declared major or minor only. Prerequisite: NUTR 250 with C or better.

401-Nutrition Education and Counseling - 3
S
This course teaches communication skills essential for professional practice in development, use, and evaluation of methods and materials for teaching nutrition to different audiences.

408-Food Service Management 1 - 3
F
Food sanitation and safety, management of human resources and supervision. Emphasis on applications to health-care facilities.

409-Large Quantities Food Preparation - 3
F
This course provides the application of concepts and principles of quantity food preparation and service.

410-Food Service Management 2 - 3
S
This course studies food service subsystems from an organizational and leadership perspective.

411-Introduction to Medical Nutrition Therapy - 3
F
Using nutrition care process as a framework, students learn how to provide nutrition services to patients.

464-Senior Seminar in Nutrition - 3
S
In-depth review and application of issues related to the profession of nutrition.

Operations Research (OR)

440-Operations Research: Deterministic Models — 3 (Same as IE 415)
S
Linear programming, problem formulation, simplex algorithm, transportation and network problems, duality theory, sensitivity theory. Prerequisite: MATH 250 with a grade of C or better and knowledge of a programming language, or consent of instructor.

441-Operations Research: Stochastic Models — 3 (Same as IE 461)
S
Probabilistic models, elementary queuing theory with single or multiple server systems, use of queues in facility designs, elementary decision theory. Markov processes and decision-making. Prerequisite: STAT 380 or STAT 480a with a grade of C or better.

442-Operations Research: Simulation — 3 (Same as IE 468)
F
Design of simulation models using a high level simulation programming language. Applications in production, inventory, queuing, and other models. Prerequisites: Stat 380 or IE 385 or IE 461 or OR 441 with a grade of C or better and knowledge of a programming language, or consent of instructor.

495-Independent Study — 1-3
Research in subjects such as mathematical programming, dynamic programming, simulation, queuing, Markov processes and production topics. May be repeated to a maximum of 9 hours. Prerequisite: written consent of advisor and instructor.

Pharmaceutical Sciences (PHPS)

402-Biochemistry for the Pharmaceutical Sciences - (Same as PHPS 702) - 3

420-Principles of Pharmacology - (Same as PHPS 520) - 4
Addresses modern pharmacology with emphasis on rational drug discovery, mechanism of drug action and toxic effects. Prerequisite: Open to Pharmacy students only or by consent of instructor and advisor and CHEM 241A, CHEM 241B, CHEM 245, CHEM 430A, BIOL 150 and BIOL 151 with D or better.

700-Principles of Drug Action I - 4
Discussion of chemical and physical properties relating to drug action. Emphasis on absorption, distribution, metabolism, and elimination of drugs, receptors theory, and mechanisms of action. Prerequisite: Open to Pharmacy students only or by consent of dept chair.

701-Principles of Drug Action II - 2
Addresses toxicology and mechanisms of drug actions in endocrine and cardiovascular systems. Emphasis is placed on anatomy and physiology, disease states, and drug actions. Prerequisite: Open to pharmacy students only or by consent of department chair.

702-Biochemical Principles of Pharmacy - 3
Address chemical and molecular biology basis for drug action and human diseases. Biochemical pathways, enzyme structure and regulation, metabolism of nutrients and food constituents covered. Prerequisite: Open to pharmacy students only or by consent of department chair.

703-Principles of Pharmacogenomics - 2
Addresses techniques of molecular biology and pharmacogenomics applied to human disease states. Emphasized pathological states where therapeutic drug intervention exists or might be developed. Prerequisite: Open to pharmacy students only or by consent of department chair.

704-Biopharmaceutics and Drug Delivery I - 2
Addresses drug absorption process, Fickian mass transport concepts and mathematical models. Common dosage forms and delivery systems are also presented. Not for graduate credit. Prerequisite: Open to Pharmacy students only or by consent of department chair.

705-Biopharmaceutics and Drug Delivery II - 2
Addresses drug product pre-formulation, formulation, and manufacture including influence on patient product performance. Physicochemical factors relevant to drug administration, problem solving, and patient counseling emphasized. Prerequisite: Open to pharmacy students only or by consent of department chair.

705n-Biopharmaceutics and Drug Delivery II - 3
Addresses drug product preformulation, formulation, and manufacture including influence on patient product performance. Physicochemical factors relevant to drug administration, problem solving, and patient counseling emphasized. Prerequisite: Open to pharmacy students only.

707-Pharmacy Skills and Techniques - 2
Addresses the mathematical and kinesthetic skills necessary for pharmacy practice. Laboratory sessions provide an environment to practice compounding skills. Prerequisite: Open to pharmacy students only or by consent of department chair.

707n-Pharmacy Calculations - 1
Addresses the mathematical skills necessary for pharmacy practice. Prerequisite: Open to pharmacy students only.

712-Immunology and Immunization Training - 3
Study of principles of immunology, host responses to microbial infections/tumors, allergic reactions, autoimmune diseases, transplantations and appropriate vaccination strategies to improve public health. Prerequisite: Open to pharmacy students only.
720-Biopharmaceutics and Drug Delivery III - 3
Addresses the physicochemical & manufacturing factors affecting drug absorption, distribution, metabolism and elimination. The mathematical modeling for determining a patient's drug dosage regimen is covered. Not for graduate credit. Prerequisite: Open to pharmacy students only or by consent of department chair.

720n-Pharmacokinetics - 3
Addresses mathematical and clinical basis for understanding drug absorption, distribution, metabolism, and elimination. The mathematical modeling for determining patient's drug dosage regimen is covered. Prerequisite: Open to pharmacy students only.

722-Microbiology & Immunology - 3
A study of the microbiology of infectious diseases and principles of immunology. The pharmacology and therapeutics of immunologic disorders are also covered. Not for graduate credit. Prerequisite: Open to pharmacy students only or by consent of department chair.

724-Integrated Pharmacotherapeutics: Cardiovascular - 5
Addresses pathophysiology, pharmacology, medicinal chemistry, and therapeutics of the cardiovascular system. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Not for graduate credit. Prerequisites: Open to School of Pharmacy Students only.

725-Integrated Pharmacotherapeutics III: Infectious Diseases - 5
Addresses pathophysiology, pharmacology, medicinal chemistry, and therapeutics of infectious diseases. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Not for graduate credit. Prerequisites: Open to School of Pharmacy Students only.

726-Integrated Pharmacotherapeutics: Endocrine/Metabolic/Renal - 4
Addresses pathophysiology, pharmacology, medicinal chemistry, and therapeutics of the endocrine, metabolic, and renal systems. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Not for graduate credit. Prerequisites: Open to School of Pharmacy Students only.

727-Integrated Pharmacotherapeutics: GI/Rheumatology/Pulmonary - 4
Addresses pathophysiology, pharmacology, medicinal chemistry, and therapeutics of the gastrointestinal, pulmonary and musculoskeletal systems. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Not for graduate credit. Prerequisites: Open to School of Pharmacy Students only.

730a,b,c,d-Integrated Pharmacotherapeutics I-IV - 4 each
Integrates concepts of pathophysiology, pharmacology, medicinal chemistry and therapeutics. Students are expected to design, implement, monitor, evaluate, and adjust pharmaceutical care plans for patients. Prerequisites: Open to School of Pharmacy Students only.

740-Integrated Pharmacotherapeutics: Psychiatry and Neurology - 5
Addresses pathophysiology, pharmacology, medicinal chemistry, and therapeutics of psychiatric and neurological disorders. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Prerequisites: Open to School of Pharmacy Students only.

741-Integrated Pharmacotherapeutics: Oncology and Hematology - 4
Addresses pathophysiology, pharmacology, medicinal chemistry and therapeutics of oncologic and hematologic disorder. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Prerequisites: Open to School of Pharmacy Students only.

742-Integrated Pharmacotherapeutics: Women and Men's Health - 2
Addresses pathophysiology, pharmacology, medicinal chemistry and therapeutics of women's and men's health problems. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Prerequisites: Open to School of Pharmacy Students only.

743-Integrated Pharmacotherapeutics: Other Topics - 2
Addresses pathophysiology, pharmacology, and therapeutics of various disorders not covered in previous therapeutics courses. Designing, implementing, monitoring, evaluating and adjusting care plans emphasized. Prerequisites: Open to Pharmacy students only.

750a,b,c,d-Integrated Pharmacotherapeutics V-VIII - 4 each
Integrates concepts of pathophysiology, pharmacology, medicinal chemistry and therapeutics. Students are expected to design, implement, monitor, evaluate, and adjust pharmaceutical care plans for patients. Prerequisite: Open to Pharmacy students only.

Pharmacy Administrative Sciences (PHAS)

708-Health Care Systems - 3
Covers health care providers and networks, principles for managing the medication use system and resource management, quality assessment strategies, pharmacy benefits and insurance systems. Prerequisite: open to pharmacy students only or by consent of department chair.

709-Health Care and Financial Management - 2
Addresses principles of business, marketing, strategic planning and financial management. The economic and political environment of the American health care system addressed. Prerequisite: open to pharmacy students only or by consent of department chair.

716-Ethical Issues in Healthcare - 1
This course is structured as an interprofessional course where pharmacy students will collaborate with dental students to discuss ethical issues encountered in health care. Codes of professionalism and ethics will be introduced. Ethical principles and the ethical decision making process will be addressed.

728-Human Resources Management - 2
Addressing principles for recruiting, hiring, training, developing, supervising, motivating, retaining, and evaluating professional and non-professional staff. Principles of effective leadership are covered. Prerequisite: open to pharmacy students only or by consent of department chair.

728n-Pharmacy Management I - 2
Addresses pharmacy communication theory, the management of human resources and leadership principles that are useful in maximizing pharmacy operations. Prerequisite: open to pharmacy students only.

733-Pharmacy Law - 3
Covers legal requirements for medications and pharmacy practice. Ethical principles needed for pharmacy practice are also covered. Prerequisite: open to pharmacy students only or by consent of department chair.

733n-Pharmacy Law - 2
Covers legal requirements in pharmacy practice and helps students apply laws to circumstances they may encounter.
in various practice settings. Prerequisite: open to pharmacy students only.

753-Management Selective: Community - 2
Designed to provide an understanding of those topics relevant to the management and administration of a community pharmacy as a small business. Prerequisite: open to pharmacy students only or by consent of department chair.

754-Pharmacy Management II - 2
Introduction to leadership and management activities and resource use in community, institutional and other pharmacy practice settings. Developing problem-solving abilities will be emphasized. Prerequisite: open to pharmacy students only.

755-Management Selective: Institutional - 2
Designed to provide a foundational knowledge base and develop management and leadership skills relevant to institutional pharmacy practice. Prerequisite: open to pharmacy students only or by consent of department chair.

756-Pharmacy & Population Health - 2
Introduces the concepts of population health, determinants and patterns of population health problems and identifying possible ways to improve population health. Prerequisite: open to pharmacy students only.

Pharmacy Electives (PHEL)

400-Introduction to Organic Medicinal Chemistry - 3
Introduction to introductory course in medicinal chemistry which addresses the relationship of chemical structure to biological activity. Not open to professional Pharmacy students. Prerequisites: CHEM 241A and 241B, CHEM 351 or 451A, BIOL 150 and 151, with C or better for all prerequisites.

402-Introduction to the Pharmaceutical Sciences - 3
Introduces the core principles in the pharmaceutical sciences: Medicinal Chemistry, Pharmacology, Pharmaceutics, and Drug Therapy. Not open to professional Pharmacy students. Prerequisite: Previous credit with a grade of C or better, or concurrent enrollment in CHEM 241a or equivalent.

760e-Orientation to Teaching - 3 (Same as PHEL 760)
Explores learning and motivation theories, teaching philosophies, the culture of higher education, scholarship of teaching and learning, design of learning units, active learning, and assessment strategies. Prerequisite: open to pharmacy students only.

761e-Instructional & Assessment Strategies - 3 (Same as PHEL 761)
Introduces various instructional and formative and summative assessment strategies with applications to the design of a learning unit. Prerequisites: open to pharmacy students only and PHEL 760 with C or better.

764e-Pain & Palliative Care Pharmacotherapy - 2 (Same as PHEL 764)
Provides the pharmacy student with an in-depth overview of pain management, hospice, and palliative care practice and health system models. Prerequisite: open to pharmacy students only.

765e-Pediatric Pharmacotherapy - 3 (Same as PHEL 765)
Designed to enhance knowledge related to the pharmacotherapy of select childhood disease states for ensuring the proper care of children and adolescents. Prerequisite: open to pharmacy students only.

766e-Diabetes Care and Experiences - 3 (Same as PHEL 766)
Addresses specific patient populations, medical nutrition therapy, pharmacotherapy, advanced monitoring considerations and devices, applied teaching principles; identifying cultural competency and literacy skills. Prerequisite: open to pharmacy students only.

768e-Addiction - 2 (Same as PHEL 768)
Provides a review of addiction medicine as it relates to the pharmacy professional and to serve a prevention function within the profession. Prerequisite: open to pharmacy students only.

769e-Introduction to the Drug Discovery Process - 2 (Same as PHEL 769)
Introduces the basic framework involved in designing a drug, taking it through the approval process, and bringing it to market. Prerequisite: open to pharmacy students only.

770e-Medicinal Chemistry - Theory & Practice - 3 (Same as PHEL 770)
Introduces medicinal chemistry addressing chemical structure vs. pharmacological activity, emphasizing basic drug design and discovery concepts, drug-receptor interactions, physicochemical aspects of drug action and targets. Prerequisite: open to pharmacy students only.

771e-Medical Devices & Supplies - 2 (Same as PHEL 771)
Designed to provide an overview of medical devices and supplies used by patients or health professionals in home and/or clinical settings. Prerequisite: open to pharmacy students only.

772e-Introduction to Nuclear Pharmacy - 2 (Same as PHEL 772)
Introduction to the specialty of Nuclear Pharmacy, including radiopharmaceuticals, instrumentation, radioactive decay, production of radionuclides, radiation protection, and radiation biology. Prerequisite: open to pharmacy students only.

773e-Advanced Pharmacogenomics - 2 (Same as PHEL 773)
Extension of the principles of pharmacogenomics from PHPS 703, conducting an in depth examination of genetic effects on drug metabolism and adverse events. Prerequisite: open to pharmacy students only.

774e-Advanced Infectious Diseases Pharmacotherapy - 3 (Same as PHEL 774)
In-depth review of clinical uses for antimicrobials and application of, infectious diseases treatment guidelines which involves independent reading, peer teaching & team-based learning. Prerequisites: open to pharmacy students only and PHPT 725 with C or better.

775e-Perspectives of Mental Health - 2 (Same as PHEL 775)
Enhances familiarity with the mental health system, psychopharmacology and the treatment of mental illnesses, and define the role of pharmacists in providing mental health care. Prerequisites: open to pharmacy students only.

776e-Critical Care Pharmacotherapy - 2 (Same as PHEL 776)
Discusses the pathophysiology and therapeutic management of commonly encountered acute intensive care medical problems. Prerequisite: open to pharmacy students only.

777e-Application of Clinical Guidelines in Ambulatory Care - 2 (Same as PHEL 777)
Designed to review practice guidelines for common ambulatory care disease states and allow students to expand and apply their therapeutic knowledge. Prerequisite: open to pharmacy students only.

779e-Advanced Self Care - 2 (Same as PHEL 779)
A study of nonprescription drugs. Emphasis will be placed on selection of the appropriate nonprescription drug for a patient and patient counseling. Prerequisite: open to pharmacy students only.

780e-Managed Care Pharmacy - 2 (Same as PHEL 780)
Fundamental concepts in managed care pharmacy and the impact on the health care system. Prerequisite: open to pharmacy students only.
781e-Methods in Drug Discovery - 2 (Same as PHEL 781)  
The drug discovery component of a Research & Development organization is presented. Focus on current technologies for drug research, with emphasis on computational methods. Prerequisite: open to pharmacy students only.

782e-Advanced Cardiovascular Pharmacotherapy - 2  (Same as PHEL 782)  
This elective will allow students to become more familiar with disorders of the cardiovascular system through lecture, primary literature review and pharmaceutical care plan development. Prerequisite: open to pharmacy students only and PHPT 724 with a C or better.

783e-Acute Care Pharmacotherapy - 2  (Same as PHEL 783)  
This course develops patient care skills in health system clinical pharmacy using case-based patient scenarios to emphasize dynamic drug and disease state management. Prerequisites: open to pharmacy students only and PHPT 724, PHPT 725, PHPT 726, PHPT 727 with C or better.

784e-Spanish Language and Culture for Health Professionals - 3  (Same as PHEL 784)  
Expand knowledge of the Spanish language and culture with an emphasis on preparing them to work in health-related fields. Prerequisite: open to pharmacy students only and SPAN 101 and 102 with a grade of C or better.

785e- Compounding - 3  (Same as PHEL 785)  
Pharmacuetics topics are developed in the context of drug product formulation and pharmaceutical compounding. Lab exercises reinforce topics covered in lecture. Prerequisite: open to pharmacy students only, PHPS 720 with a grade C or better, and consent of instructor.

786e-Personalized Medicine - 2  (Same as PHEL 786)  
Detailed analysis of pharmacogenomic variation affecting molecular kinetics and dynamics, FDA genotype-driven biomarker advice, and inherited susceptibilities to adverse outcomes in pharmacotherapy. Prerequisite: open to pharmacy students only.

787e-Global Health - (Same as PHEL 787) - 3  
This fully online course is intended to address global health challenges. The course will also focus on interprofessional collaboration. Prerequisite: open to pharmacy students only.

788e-Advanced Clinical Hematology Oncology Overview - 2  (Same as PHEL 788)  
Provides additional education in the area of clinical oncology. Students will learn about topics not addressed in the Integrated Therapeutics course on this topic. Prerequisite: open to pharmacy students only and Concurrent enrollment in PHPT 741.

789e-Medicinal Plants & Tropical Diseases - 2  (Same as PHEL 789)  
Combines lectures, readings and projects with a field-based experiential component. The topics will cover a broad perspective including natural resources and tropical diseases. Prerequisite: open to pharmacy students only.

790e-Advanced Community Pharmacy - 2  (Same as PHEL 790)  
Focus on the application of community pharmacy practice topics. Rapid diagnostic testing, patient counseling, verification of prescriptions, and business aspects will be emphasized. Prerequisite: open to pharmacy students only.

791e-Pharmacy Advocacy and Leadership Development - 2  (Same as PHEL 791)  
This course will focus on developing the student's leadership skills and communication skills as an advocate for the profession of pharmacy. Prerequisite: open to pharmacy students only.

792e-Pharmacy and Population Health - 2  (Same as PHEL 792)  
This course will introduce the concepts of population health, determinants and patterns of population health problems and identifying possible ways to improve population health. Prerequisite: open to pharmacy students only.

Pharmacy Experiential Programs (PHEP)  
714-Introductory Pharmacy Practice Experience I: Professional Role Observations - 1  
Introduction to the practice of pharmacy with experiences in both community and institutional pharmacy practice. The purpose is to enhance awareness of the role of pharmacists in these practice settings. Not for graduate credit. Prerequisite: Open to pharmacy students only.

715-Introductory Practice Experience II: Service Learning - 1  
Students provide a health-related service in a community setting and gain social and civic responsibility awareness. Not for graduate credit. Prerequisite: Open to pharmacy students only.

719a-Personal and Professional Development I - 2  
One of a six-course sequence where students gain personal and professional skills and participate in experiential learning necessary in their development as well-rounded healthcare professionals. Prerequisite: Open to pharmacy students only.

719b-Personal and Professional Development II - 1  
One of a six-course sequence where students gain personal and professional skills and participate in experiential learning necessary in their development as well-rounded healthcare professionals. Prerequisite: Open to pharmacy students only.

730-Introductory Pharmacy Practice Experiences III - 2  
Students gain experiences in community or health system pharmacy. Options for other practice settings such as long term care or home IV therapy exist. Students develop skills for pharmacy practice. Not for graduate credit. Prerequisite: open to pharmacy students only.

731-Introductory Pharmacy Practice Experience IV - 2  
Students gain experiences in community or health system pharmacy. Options for other practice settings such as long term care or home IV therapy exist. Not for graduate credit. Prerequisite: open to pharmacy students only.

732-Pharmacy Rounds I - 1  
Students participate in weekly seminar presentations over either the fall or spring semesters where taking sides on a contemporary issue in pharmacy practice is developed. Not for graduate credit. Prerequisite: open to pharmacy students only.

739a,b-Personal and Professional Development III/IV - 3  
One of a six-course sequence where students gain personal and professional skills and participate in experiential learning necessary in their development as well-rounded healthcare professionals. Prerequisite: Open to pharmacy students only.

746-Pharmacy Rounds II - 1  
Participate in independent and professional development through a variety of suggested pharmacy learning activities and processes to promote lifelong learning. Prerequisite: open to pharmacy students only.

747-Pharmacy Rounds III - 1  
Students participate in the practical applications of pharmacy practice, with an emphasis on evidence-based medicine and integration of disease state management. Prerequisite: open to pharmacy students only.

751-Essentials of Research Application - 1  
Review of basic research principles (from idea creation to writing conclusion) in preparation for the Advanced Pharmacy Practice Experience (APPE) research application rotation. Prerequisite: open to pharmacy students only.
Prerequisite: open to pharmacy students only or by consent of department chair.

759a,b-Personal and Professional Development V/VI - 1
One of a six-course sequence where students gain personal and professional skills and participate in experiential learning necessary in their development as well-rounded healthcare professionals. Prerequisite: Open to pharmacy students only.

780-Advanced Pharmacy Practice: Community Pharmacy - 6
Places students in a community pharmacy practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

781-Advanced Pharmacy Practical Experience: Hospital - 6
Places students in a hospital practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

782-Advanced Pharmacy Practical Experience: Ambulatory - 6
Places students in an ambulatory care practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

783-Advanced Pharmacy Practical Experience: Acute Care - 6
Places students in an acute care setting where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

784-Advanced Pharmacy Practical Experience: Specialized - 6
Places students in a specialized practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. May be repeated to a maximum of 18 hours. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

785-Advanced Pharmacy Practical Experience: Specialized - 6
Places students in a specialized practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

786-Advanced Pharmacy Practical Experience: Specialized - 6
Places students in a specialized practice environment where they can apply their didactic knowledge, develop core competencies, and gain patient care experience. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

789-Advanced Pharmacy Practical Experience: Senior Project: Research Application For Patient Care - 3
The senior experience requires the student to develop and complete a scholarly, pharmacy-related project. Prerequisite: open to pharmacy students only and must be in the fourth professional year.

795-Independent Study - 0-4
Provides students with the opportunity to pursue research and study in an area of interest in pharmaceutical sciences or pharmacy practice. May be repeated for a maximum of 4 hours. Prerequisite: open to pharmacy students only or by consent of department chair.
Philosophy (PHIL)

111-Introduction to Philosophy – 3
Eras, branches, and problems of philosophy, including metaphysics; theory of knowledge; ethics.
BHUM, IFAH [IAI No. H4 900]

212-Inductive Logic – 3F
An introduction to inductive logic. Common elements of inductive logic include: generalizations; causal hypotheses; arguments from analogy; testimony, and probability.
FRA

213-Introduction to Deductive Logic – 3 S
Formal techniques for analyzing correct deductions. Propositional, syllogistic, class, and predicate logic with quantifiers: applications to philosophical problems.
BICS, DFAH

222-Environmental Ethics – 3 aF
Ethical issues arising from human interaction with the natural environment.
BHUM

225-Contemporary Moral Issues – 3 FS
This course explores contemporary moral controversies such as abortion, euthanasia, torture, capital punishment, international justice, and sexual morality.
BHUM [IAI No. H4 904]

226-Philosophy and Film – 3
Analysis of selected films with respect to philosophical issues and aesthetic, moral, metaphysical, and epistemic concerns.
BHUM

228-Philosophy and Literature – 3
An examination of various philosophical problems and literary texts. Sample topics include the nature of justice, human freedom, moral psychology, and the good life.
BHUM

230-Atheism: A Philosophical Analysis – 3
An analysis of positive and negative atheism, its rationale, and its implications.
BHUM, DFAH

231-Philosophy, Science and Religion – 3F
An examination of historically and conceptually significant interactions between philosophy, science and religion. Addresses issues such as those in cosmology, evolutionary biology, and neuroscience.
BHUM, DFAH

233-Philosophies and Diverse Cultures – 3 M
Representative thinkers, texts, and movements outside the Western philosophical tradition, e.g., from India, East Asia, Africa, Latin America and the Middle East.
BHUM, DFAH, EGC, IC [IAI No. H4 903N]

234-World Religions – 3 FM
Historical and comparative study, particular attention to such non-Christian faiths as Hinduism, Buddhism, Confucianism, Taoism, and Islam.
BHUM, EGC, IC [IAI No. H5 904N]

300-Classical Greek Philosophy – 3 F
Major philosophers of the Greek Classical Period, including Plato and Aristotle.
BHUM, DFAH, EGC, IC

301-Medieval Western Philosophy – 3 aS
Major thinkers and movements from c. 4th century through 16th century.
BHUM, DFAH, EGC, IC

302-Hellenistic Philosophy – 3 aF
Major philosophical schools of Greek and Roman Hellenistic period: Stoicism, Epicureanism, and Skepticism.
BHUM, EGC, IC

303-Nineteenth Century Western Philosophy – 3 aF
Major thinkers and movements of 19th century.
BHUM, DFAH, EGC, IC

304-Eighteenth Century Philosophy – 3 aS
Major thinkers and movements from 18th century Europe.
BHUM, DFAH

305-Existentialism – 3
A study of philosophical problems concerning the meaning of life. Topics include meaning, freedom, consciousness, subjectivity, human existence, fear, death, moral tradition.
BHUM, DFAH, EGC

306-American Philosophy – 3
Major thinkers and movements; e.g., Puritanism, revolution and democracy, transcendentalism, pragmatism, Royce, Santayana, Whitehead, and contemporary criticism.
BHUM, DFAH

307-Seventeenth Century Philosophy – 3 aS
Major thinkers and movements from 17th century Europe.
BHUM, DFAH

308-Twentieth Century European Philosophy – 3 aF
Representative thinkers of contemporary continental philosophy, such as Husserl, Heidegger, Sartre, Beauvoir, Merleau-Ponty, Ricoeur, Derrida, Foucault, and others.
BHUM, DFAH, EGC, IC

309-Twentieth Century Analytic Philosophy – 3
Representative thinkers of analytic movement, such as Frege, Moore, Russell, Ryle, Wittgenstein, and others.
BHUM, DFAH

310-Theories of Knowledge – 3aF
Conceptions, sources, limits, and methods of knowing.
BHUM, DFAH

314-Philosophy of Science – 3aS
Investigation of the nature and methods of physical and social science, and their importance for individuals and society.
BHUM, DFAH

316-Philosophy of Biology – 3aS
Examines philosophical issues that arise from within biology, and the implications biology has on our understanding of ourselves as humans.
BHUM, DFAH
Philosophy (PHIL)

320-Ethics – 3FS
Theories of virtue, obligation, and value; discussions of individual and social morality.
BHUM, DFAH

321-Ethics in the Medical Community – 3 FSM
Ethical issues arising in health care contexts and practices.
BHUM, DFAH

323-Engineering, Ethics, and Professionalism – 3 FSM
Safety, liability codes, employment relations, public responsibility, and other professional engineering issues are addressed, employing methods of argument analysis, evaluation, and construction.
BHUM, DFAH, FRA

325-Philosophy of Art – 3
Significance of art as human activity; nature and standards as evidenced in problems of criticism; relation of art to theory and knowledge.
BHUM, DFAH

330-Metaphysics – 3 aS
Problems such as personal identity, mind-body relationship, causality, nature of reality.
BHUM, DFAH

333-Philosophy of Religion – 3aS
Problems in epistemology, metaphysics, psychology, and sociology of religion. Questions about divine existence, mystical experience, human suffering, immortality.
BHUM, DFAH [A11 No. H 906]

335-Islamic Thought – 3 aS
A scholarly examination of theological and philosophical ideas within the Islamic tradition, from its origins to contemporary schools of thought.
BHUM, DFAH, EGC, IC

336-Christian Thought – 3 aS
Scholarly treatment of historical development of Christian doctrines and thought.
BHUM, DFAH, EGC

337-American Indian Thought – 3 aS
Investigation of philosophical issues expressed through oral tradition and cultures of selected indigenous American traditions and in writings of contemporary American Indian thinkers.
BHUM, DFAH, EUSC, IGR

340-Social and Political Philosophy – 3 aS
Philosophical problems of social and political theory and conduct.
BHUM, DFAH, EGC

343-Philosophy of Law – 3 (Same as POLS 391) aF
Philosophical discussion of legal problems and issues in contemporary society such as rights, justice, freedom, responsibility, and punishment.
BHUM, DFAH

344-Women and Values – 3 (Same as WMST 344) aS
Examines women's philosophical contributions to traditional areas of value theory including ethics, social, legal and political philosophies; and philosophies of art and religion. Prerequisite: one prior philosophy or women's studies course.
BHUM, DFAH, EUSC

345-Women, Knowledge and Reality – 3 (Same as WMST 345) aS
The course surveys various feminist theories of knowledge, with particular attention to science and how gender influences our claims to knowledge.
BHUM, DFAH, EUSC

346-Feminist Theory – 3 (Same as WMST 346) aF
Social philosophy from feminist perspective. Major theoretical works of women's movement. Prerequisite: WMST 200 strongly recommended.
BHUM, DFAH, EUSC, IGR

347-Philosophy of Race – 3 aF
Conceptual analysis of racism, the metaphysics of race, and the moral and political challenges posed by a racialized social order.
BHUM, DFAH, EUSC, IGR

348-Law and Society – 3 -- (Same as CJ 348 and POLS 392)FS
Examines the nexus of culture, dispute management and law. We will explore law as a social construct, focusing on law's everyday impact on citizen's lives.

350-Philosophy of Mind – 3aF
Explores the relationship between the common sense view and the scientific view of such mental phenomena as thought, free will, and consciousness.
BHUM, DFAH

355-Philosophy of Language – 3aS
Studies philosophical problems concerning language. Includes topics such as meaning, reference, truth, semantic puzzles, speech acts and metaphor.
BHUM

390-Philosophy Here and Abroad – 3
Variable content course with a study abroad component. Participation in the study abroad is required for completing the course. Repeatable to 6 credit hours. Prerequisite: consent of instructor.
BHUM, DFAH, EGC

411-Advanced Logic – 3
Metatheory of first order logic and modal logic. May include other topics in advanced logic such as set theory, probability theory, or fuzzy logic.
BHUM, DFAH, EGC

440-Classical Political Theory – 3 (Same as POLS 484)
Works of major political thinkers from ancient times to Renaissance, including Plato, Aristotle, St. Augustine, St. Thomas, and Machiavelli. Prerequisite: junior standing or higher.
BHUM, DFAH, EGC, IC

441-Modern Political Theory – 3 (Same as POLS 485)
Works of major political thinkers from Renaissance to present, including Hobbes, Locke, Rousseau, Hegel, Marx, Mill, and Nietzsche. Prerequisite: junior standing or higher.
BHUM, DFAH, EGC, IC

480-Senior Assignment – 3 F
Independent research on philosophical topics. Required of all philosophy majors.

481-Media Ethics – 3FSM
Critical examination and analysis of main values, issues, and arguments associated with media functions, performance, business practices, and with public perceptions of the media. Prerequisite: junior standing.
BHUM, DFAH, HUM

490-Philosophy Seminar – 3S
Seminar for qualified philosophy majors and graduate students to pursue specific topics, traditions, or philosophers in depth. Variable content. May be repeated to a maximum of 12 hours so long as no topic is repeated. Prerequisite: 15 hours in philosophy, or consent of instructor.

495-Independent Readings - 1 to 3FSM
Independent study on tutorial basis. Undergraduate students normally limited to 3 hours; graduate students normally limited to 9 hours. Prerequisite: consent of instructor and department chairperson.

496-Topics in Ethics – 3
Variable content course on topics in ethics. May include topics
in normative ethics, metaethics, or applied ethics. Repeatable to a maximum of 9 hours.

BHUM, DFAH

498-Legal Theory – 3 (Same as POLS 498)
Explores contemporary legal theory; emphasis on law and morality, law and Society, law and economics, judicial discretion, and fundamental doctrines and principles of a legal system.
Prerequisite: PHIL 111 or POLS 390.
DFAH, DSS, SS

Physics (PHYS)

111-Concepts of Physics – 3
Introduction to our understanding of the universe and how it is achieved. Includes selections from: motion, energy, heat, fluids, electricity, magnetism, sound, light, atoms. Prerequisite: a grade of C or better is required in all prerequisites. One year of high school algebra or AD 095 or equivalent; and one year of high school geometry or AD 085 or equivalent.
BPS, INSM [IAI No. P1900]

112-Conceptual Physics Laboratory - 1
Weekly introductory laboratory dealing with mechanics, heat, electricity, sound and light. Emphasis placed on measurements and data analysis. Prerequisite: concurrent enrollment in 111.
BPS, DNSM, EL, LNSM

115-Energy and the Environment - 3
Problems and prospects of meeting national and worldwide energy demands. Scientific background, role, and environmental impact of fossil fuel, nuclear, solar, geothermal, and other technologies. Prerequisites: a grade of C or better is required in all prerequisites. One year of high school algebra or AD 095 or equivalent; and one year of high school geometry or AD 085 or equivalent.
BPS, DNSM, EL, LNSM

116-Music and Acoustics - 3
Vibrations; nature and propagation of sound waves; musical pitch and intervals; tone quality, analysis, and synthesis; instruments; speech; ears and hearing; psychological aspects; other topics. Prerequisites: a grade of C or better is required in all prerequisites. One year of high school algebra or AD 095 or equivalent; and one year of high school geometry or AD 085 or equivalent.
BPS, DNSM [IAI No. P1 901]

117-Light and Color - 3
Nature of light; ray and wave phenomena; optical devices; the eye; color theory; lasers and holography; applications to art, photography, and other visual media. Prerequisites: a grade of C or better is required in all prerequisites. One year of high school algebra or AD 095 or equivalent; and one year of high school geometry or AD 085 or equivalent.
BPS, DNSM [IAI No. P1 901]

118-Astronomy - 3
Introduction to observation; seasons; light; telescopes; orbits; solar system; stellar structure, evolution and classification; galaxies and cosmology. Includes in-class activities and supplemental viewing sessions. Prerequisites: a grade of C or better is required in all prerequisites. One year of high school algebra or AD 095 or equivalent; and one year of high school geometry or AD 085 or equivalent.
BPS, DNSM [IAI No. P1 906]

118L-Astronomy Laboratory - 1
An experiential laboratory course utilizing both software and real-time observation concerning astronomical objects.
BPS, INS M, EL

120-Frontiers In Physics - 3
Introductory Course designed to highlight, through examples, how progress and discoveries are made in physics. Topics selected from historical and/or contemporary physics. May include seminar. Prerequisites: MATH 125 with grade of C or better, or permission of the instructor.
BPS, DNSM

131-4 College Physics I: Mechanics and Heat - 4FSM
This course is the first semester of a two semester sequence. Designed to meet pre-medical and biological science requirements. Topics include mechanics, fluids, energy and heat and gravitation. Prerequisites: MATH 125 or MATH 150 or MATH 152 and concurrent enrollment in PHYS 131L.
BPS, IN SM

131L-College Physics I Laboratory: Mechanics and Heat - 1 FSM
This course is a laboratory for College Physics I. Topics include physical measurements, data analysis, lab reporting and error analysis. Prerequisites: MATH 125 and concurrent enrollment in PHYS 131.
BPS, EL, INSM

132-College Physics II: Electricity, Magnetism and Optics - 4 FS
This course is the second semester of a two semester sequence. Designed to meet pre-medical and biological science requirements. Topics include waves and sound, electrostatics, circuits, magnetism, EM waves, optics and modern physics theory. Prerequisite: PHYS 131 and concurrent enrollment in PHYS 132L and concurrent enrollment in PHYS 132.
BPS, DNSM

132L-College Physics II Laboratory: Electricity, Magnetism and Optics - 1 FSM
A lab consisting of experiments designed to complement PHYS 132: physical measurements, data analysis, presentation and error analysis. Prerequisite: a grade of D or better in PHYS 131L.
BPS, EL, DNSM, LNSM

140-3 Introduction to Physics and Physical Reasoning - 2
An introduction to physics and quantitative reasoning preparatory for PHYS 141/151. Selected physics concepts, methods of reasoning, application of mathematics to physics problem solving. Prerequisites: MATH 150 or consent of instructor.
BPS, INSM

141-3 Physics I for Engineering - 3
Introductory calculus-based course for engineering students: Motion, kinematics, dynamics, Newton’s Laws, applications; work; kinetic, potential energy, momentum; rotational dynamics, angular momentum; gravity; oscillations. Prerequisite: High-School Physics grade of B or better, or ACT score of 28 or better, or PHYS 140 with a grade of C or higher, or satisfactory score on PHYS 140/141 Placement Examination and concurrent enrollment in PHYS 151L.
BPS, INSM

142-3 Physics II for Engineering - 3
Calculus-based course for engineering students: electric charge, electric fields, Gauss’ law, electric potential; magnetic fields, Faraday’s law, inductance, Maxwell’s equations integral form; electromagnetic waves. Prerequisites: A grade of C or better in the following: MATH 152, PHYS 151L, and PHYS 141 or 151 and concurrent enrollment in PHYS 152L.
BPS, DNSM

151-University Physics I - FSM
Calculus-based course designed to meet needs of engineering and science students: Kinematics; dynamics; planar motion; work and energy; momentum; rotational motion; gravitation; Harmonic Motion. Prerequisites: a grade of C or better is required in all prerequisites. MATH 152 or concurrent enrollment and concurrent enrollment in PHYS 151L.
BPS, INS M [IAI No. P2 900]

151L-University Physics I Laboratory - 1 FSM
Physics measurements; data analysis and presentation, error
152-University Physics II - 4

Calculation-based course designed to meet needs of engineering and science students: bulk properties of matter, oscillations and waves, electric charge, electric fields; Gauss' law; potentials; circuits; magnetic fields; electromagnetic waves. Prerequisites: a grade of C or better is required in all prerequisites: PHYS 141 or PHYS 151 and concurrent enrollment in PHYS 152L.

BPS, DNSM [IAI No. P2 900]

152L-University Physics II Laboratory - 1

Physics measurements; data analysis and presentation, error analysis. (a) thermal and bulk properties of matter, simple harmonic motion and waves, electromagnetism, simple circuits, optics. Prerequisites: concurrent enrollment in PHYS 142 or PHYS 152.

BPS, DNSM, EL, LNSM [IAI No. P2 900]

192-Freshman Project in Biomedical Physics - 1 to 3

With guidance, a freshman investigatory or independent study project in bio- or biomedical physics. Open to all students of other disciplines and to 100-level physics students.

193-1 to 3 Freshman Project in Photonics and Laser Physics - 1 to 3

With guidance, a freshman investigatory or independent study project in photonics physics. Open to all students of other disciplines and to 100-level physics students.

196-1 to 3 Freshman Project in Astronomy - 1 to 3

With guidance, a freshman investigatory or independent study project in astronomy. Open to all students of other disciplines and to 100-level physics students.

197-1 to 3 Freshman Project in Experimental Physics - 1 to 3

With guidance, a freshman investigatory or independent study project in experimental physics. Open to all students of other disciplines and to 100-level physics students.

198-Freshman Project in Theoretical Physics - 1 to 3

With guidance, a freshman investigatory or independent study project in theoretical physics. Open to all students of other disciplines and to 100-level physics students.

201-University Physics III - 4


BPS, DNSM

201L-University Physics III Laboratory - 1

Laboratories covering selected topics from electromagnetic waves, physical optics, introductory special relativity, thermodynamic laws and introductory quantum physics. Prerequisite: Concurrent enrollment in 201.

BPS, DNSM, EL, LNSM

208-Space Physics - 3

Mechanics of orbital and sub-orbital flight. Physical, chemical and geologic characteristics of solar system objects determined by exploration and remote sensing. Prerequisite: A grade of C or better is required in 131 and MATH 150.

DNSM, PS

230-Planetary and Solar System Astronomy - 3

Orbital mechanics, telescopes, physical processes, atmospheres, planets, moons, ring systems, outer Solar System, comets, Kuiper belt, formation of planetary systems, extra-solar planets. Prerequisites: Grade of C or better in PHYS 132 and PHYS 142 or PHYS 152.

240-An Introduction to Biomedical Physics - 3

Physics applied to human biology and medicine. Applications of mechanics, thermodynamics, electromagnetism; properties of nerves, membranes and fluids; ultrasound, x-ray, nuclear medicine and MRI. Prerequisites: Grade of C or better in all of: PHYS 132, 142 or 152, MATH 150

BLS, BPS, DNSM

251-Waves - 4


BPS, DNSM

292-Sophomore Project in Biomedical Physics - 1 to 3

With guidance, a sophomore investigatory or independent study project in bio- or biomedical physics. Prerequisites: Grade of C or better in either PHYS 152, 142 or 132 and permission of the instructor.

293-Sophomore Project in Photonics and Laser Physics - 1 to 3

With guidance, a sophomore investigatory or independent study project in photonics physics. Prerequisites: Grade of C or better in PHYS 152 or 142 and permission of the instructor.

296-Sophomore Project in Astronomy - 1 to 3

With guidance, a sophomore investigatory or independent study project in Astronomy. Prerequisites: Grade of C or better in PHYS 152 or 142 and permission of the instructor.

297- Sophomore Project in Experimental Physics - 1 to 3

With guidance, a sophomore investigatory or independent study project in experimental physics. Prerequisites: Grade of C or better in PHYS 152, PHYS 142 or PHYS 132 and permission of the instructor.

298-Sophomore Project in Theoretical Physics - 1 to 3

With guidance, a sophomore investigatory or independent study project in theoretical physics. Prerequisites: Grade of C or better in PHYS 152, PHYS 142 or PHYS 132 and permission of the instructor.

303-Thermal Physics - 3

Introduction to thermodynamics; fluids; kinetic theory; statistical distribution functions; applications. Prerequisites: PHYS 142 or PHYS 152, MATH 250.

DNSM, PS

304-Introduction to Quantum Physics - 4

History of Quantum Physics. Matter waves, uncertainty principle, Schrödinger solutions for confined particles, hydrogen atom. Atomic, nuclear, and solid-state physics. Applications include lasers and semiconductors. Prerequisites: a grade of C or better in 201, 201L, 251; MATH 250.

BPS, DNSM

312-Intermediate Physics Laboratory - 3

Experimental methods in modern physics: modern experimental techniques computer-aided data acquisition; numerical methods; detectors and sensors; data and error analysis. Prerequisite: 304 or concurrent enrollment.

PS

314-Modern Data Acquisition and Analysis in Physics - 3

A course in the use of modern computer-aided data acquisition and analysis in Physics. Prerequisites: Grades of C or better in each of: PHYS 201, 201L, 251 or permission of the instructor.

BPS, DNSM, EL

318-Theory and Applications of Electronic Measurements - 3

Principles of modern electronic measurements and computer interfacing techniques. Transistor circuits; digital electronics;
op-amps; sensors; digital/analog and analog/digital conversions; computer aided data acquisition. Includes weekly two-hour laboratory. Prerequisite: A grade of C or better in either PHYS 132, PHYS 142 or PHYS 152.

DNSM, BPS, EL

320-Special Relativity - 3
Michelson-Morley experiment; Lorentz transformations; relativistic description of space and time; relativistic kinematics and dynamics; relativistic development of electricity and magnetism. Prerequisites: a grade of C or better in PHYS 201, 201L, 251; MATH 250.

DNSM, PS

321 Introduction to Classical Mechanics - 4

DNSM

322-4 Statistical Mechanics - 4
Laws of thermodynamics; equipartition theorem; free energy; Maxwell relations; entropy; Boltzmann statistics; Bose-Einstein statistics; Fermi-Dirac statistics; Ising model; information theory. Prerequisites: a grade of C or better in PHYS 201, 201L, 251; MATH 305.

PS

340-3 Biological Physics - 3
An intermediate course in biophysics and biophysical methods. Topics vary, may include diffusive processes, molecular and cellular biophysics, structural analysis methods, nanobiotechnology and others. Prerequisite: Grade of C or better in all of PHYS 201, 240, 251, CHEM 241A.

BPS, DNSM

343-Stellar Astronomy - 3
Basics of interaction of radiation with matter. The Sun, properties of stars, stellar atmospheres, stellar interiors, interstellar medium, formation, evolution of stars and stellar remnants. Prerequisites: Grade of C or better in PHYS 201, 230, 251.

DNSM, PS

375-Seminar - 1
Selected topics in theories and applications. May be repeated to a maximum of 3 hours, provided no topic is repeated. Pass/No Credit only. Prerequisite: consent of instructor.

PS

376-Career Preparation in Physics - 1
Seminar on: Exploration of post-baccalaureate options in industrial, corporate and academic physics and applied physics. Employment trends. Resume writing. Choosing and applying to graduate programs. Prerequisite: Grade of C or better in both of PHYS 201 and PHYS 251.

DNSM

390-Junior Physics Honors - 3
Directed by student's Physics Honors Program advisor in independent study format on topics chosen jointly by student and advisor. Prerequisites: 304, 321, admission to the Physics Honors Program.

DNSM, PS

392-Junior Project in Biomedical Physics - 1 to 3
With guidance, a junior investigatory or independent study project in bio- or biomedical physics. Prerequisites: Grade of C or better in all of PHYS 201, 240, 251 and permission of the instructor.

393-Junior Project in Photonics and Laser Physics - 1 to 3
With guidance, a junior investigatory or independent study project in photonics and/or laser physics. Prerequisites: Grade of C or better in all of PHYS 201, 251 and 410 and permission of the instructor.

396-1 to 3 Junior Project in Astronomy/Astrophysics - 1 to 3
With guidance, a junior investigatory or independent study project in Astronomy/Astrophysics. Prerequisites: Grade of C or better in all of PHYS 201, 230, 251 and permission of the instructor.

397-1 to 3 Junior Project in Experimental Physics - 1 to 3
With guidance, a junior project in experimental physics. Prerequisites: Grade of C or better in each of PHYS 201, 201L, 251 and permission of the instructor.

PS

398-1 to 3 Junior Project in Theoretical Physics - 1 to 3
With guidance, a junior project in theoretical physics. May be repeated for a maximum of 6 hours. Prerequisite: Grade of C or better in each of PHYS 201, 201L, 251 and permission of the instructor.

PS

405a,b-3 each Introduction to Electromagnetic Field Theory - 3 each
Vector treatment of the theory. (a) electrostatics in vacuum and in matter; steady currents. (b) magnetism; magnetic materials; electromagnetic radiation. Prerequisites: a) 321 or 323 with a grade of C or better; (b) 405a with a grade of C or better.

DNSM, PS

406-4 Electromagnetic Fields and Waves - 4
Vector Calculus. Electric and magnetic fields. Scalar potential. Electric and magnetic dipoles. Maxwell's equations in integral and differential form, vector potential, introduction to electromagnetic radiation. Prerequisites: Grade of C or better in PHYS 142 or PHYS 152 and Phys 251 or consent of instructor.

DNSM, BPS

410-3 Optics - 3
Nature of light; photometric quantities; geometrical optics; interference and diffraction; polarization; introduction to lasers; optical properties of materials. May include laboratory component. Prerequisites: a grade of C or better is required in all prerequisites; PHYS 201, 201L, 251 and MATH 305.

BPS, DNSM

415a,b-3 each Wave Mechanics and Atomic Physics - 3 each
(a) Foundations of quantum mechanics: wave functions; expectation values; operators; Schrödinger equation; simple applications including step potentials and harmonic oscillator; perturbation theory. (b) Topics pertinent to atomic and molecular systems: angular momentum; hydrogen atom; electron spin; atomic transitions and spectra; exclusion principle; multi-electron atoms; molecular structure. Prerequisites: (a) 304, MATH 305; (b) 415a.

PS, DNSM

416-4 Principles of Quantum Mechanics - 4
Wave functions, packets, probabilities, eigenfunctions, operators, uncertainty relations. Schrödinger equation, square wells, harmonic oscillator, barriers, angular momentum, Hydrogen atom, spin, identical particles, exclusion principle, applications. Prerequisites: a grade of C or better in each of PHYS 304 and one of 321 or 323; MATH 321 or MATH 355.

BPS, DNSM

419-4 Introduction to Theoretical Physics - 4
Mathematical techniques: vectors; tensors; matrices; differential equations; special functions; boundary value problems; other selected topics. Prerequisites: 304, MATH 305.

DNSM, PS

430-3 Physics and Astronomy Education Research - 3
Questions, methodology, data analysis and results of physics and astronomy education research. Prerequisites: a grade of C or better in PHYS 201, 201L, 251.

PS
431-3 Instructional Strategies for Particle and Rigid Body Motion - 3
Pedagogical innovations, assessments, and inquiry-based activities will be developed for particle and rigid body motion. Addresses Illinois Professional Teaching Physics — Designation Standard #2. Prerequisites: PHYS 141 or PHYS 151 and CI 200, or certified K-12 teacher, or physics graduate status. PS

432-3 Instructional Strategies for Physical Waves and Thermodynamics - 3
Pedagogical innovations, assessments and inquiry-based activities will be developed for physical waves and thermodynamics. Addresses Illinois Professional Teaching Physics — Designation Standard #3 and #4. Prerequisites: 323 and CI 200, or certified K-12 teacher, or physics graduate status. PS

433-3 Instructional Strategies for Electricity and Magnetism - 3
Pedagogical innovations, assessments and inquiry-based activities will be developed for particle and rigid body motion. Addresses Illinois Professional Teaching Physics — Designation Standard #2. Prerequisites: PHYS 142 or PHYS 152 and CI 200, or certified K-12 teacher, or physics graduate status. PS

434-3 Instructional Strategies for Astronomy - 3
Pedagogical innovations, assessments, and inquiry-based activities will be developed for astronomy. Address Illinois Professional Teaching Earth and Space Science Standards #3 and #4. Prerequisites: 118 and CI 200, or certified K-12 teacher, or physics graduate status. PS

438-1 Physics and Astronomy Education Research Seminar - 1
Seminar discussing current issues in physics and astronomy education research. May be repeated for a maximum of 4 hours, provided no topic is repeated. PS

439-1 to 3 Physics Project for Educators - 1 to 3FM
Physics curriculum development project with the topic and educational level decided in consultation with the instructor. Not for physics undergraduate majors. Prerequisites: teaching certificate or instructor permission. PS

442-3 Topics in Medical Physics - 3
Topics variable, may include: Medical imaging: Physics of x-ray, CT, PET, MRI and ultrasound techniques, radiotherapy, nuclear medicine, radiation protection, electrophysiological measurements, biomechanics, mathematical modeling. Prerequisites: Grade of C or better in all of: PHYS 201, 240, 251, CHEM 241A or permission of the instructor. BPS, DNSM

444-3 Galaxies and Cosmology - 3
Nature and evolution of galaxies. Extragalactic distance scales, expansion of Universe, active galaxies, quasars, introduction to cosmological models of the early Universe. Prerequisites: Grade of C or better in PHYS 201, 230, 251, 321, 343 or permission of the instructor. BPS, DNSM

450-3 Solid-State Physics - 3
Crystal structures and binding; lattice vibrations; electronic states; band theory of solids; semiconductors; optical properties of solids; other selected topics. Prerequisites: Grade of C or better in both of: PHYS 304 and PHYS 323. BPS, DNSM

471-3 Laser Physics and Technology - 3
Interaction between light and matter, rate equations, resonators and cavity modes, mode locking, ultra-short pulse generation, laser systems. Applications may include communications, medicine, holography. Prerequisites: Grade of C or better in all of: PHYS 201, PHYS 201L, PHYS 251, PHYS 410 or permission of instructor. BPS, DNSM
499a-3 Senior Assignment in Physics: Part I  
Directed study toward completing the senior assignment. Includes a written proposal, data acquisition, and an oral presentation. Prerequisite: 30 credit hours of physics courses and consent of instructor.  
PS  
499b-2 Senior Assignment in Physics: Part II  
Directed study toward completing the senior assignment. Includes data acquisition and analysis, written report, poster presentation and oral presentation. May be repeated to a maximum of 4 hours. Prerequisite: credit for 499a and consent of instructor.  
PS  

Political Science (POLS)  
111-Introduction to Political Science - 3  
Institutional, behavioral, ideological comparisons of major types of political systems and processes; approaches and systems.  
BSS, EGC, ISS, II [IAI No. S5 903]  
112- Introduction to American National Government and Politics - 3  
Principles and practices of American political systems, constitutions, governmental institutions, political parties, interest groups, elections. Public participation; resultant policies.  
BSS, DSS, EUSC, IGR, ISS [IAI No. S5 900]  
292-Legal Research, Analysis, and Writing - 3  
Instruction and practice in researching statutory law, case law, and legal commentary; analyzing research results; communicating conclusions through written legal memoranda and briefs.  
BICS, DSS, EL  
300-Introduction to Political Analysis - 3  
Survey of models and quantitative techniques for organizing and analyzing data about politics; emphasis on applications; use of appropriate computer programs.  
BSS, DSS, EL  
310-Readings in Political Science - 1 to 4  
Individualized instruction through specialized program designed by instructor and student. Normal assignment 1,000 pages per credit hour; requirements determined prior to registration. For majors and minors only. Prerequisites: 111, 112, consent of instructor.  
320-Introduction to Public Administration - 3  
Processes and problems of managing government agencies, political context, policy impact, effects of bureaucratic organization; managing personnel and finances, evaluating effectiveness, controlling discretion. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
340-The Presidency - 3  
Presidential powers and responsibilities, political, legal, constitutional, administrative. Evolution of presidency, its relationships to Congress and Judiciary. Impact on political system. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
341-The Congress and Legislation - 3  
Legislative organization and processes; Constitutional responsibilities and political dynamics. Impact on political system. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
342-Issues in American Public Policy - 3  
Public policies in such areas as taxing and spending, civil rights, welfare, health education, environment; explanations for adoption; problems of implementation; evaluation of impact.  
BSS, DSS  
343-American State Governments - 3  
Comparative survey, historic and cultural influences, role of parties, interest groups, legislature, governors, and courts; impact on provision of state services. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
344-Urban Politics - 3  
Examination of political systems in American cities over time, including the role of political machines, suburban sprawl, economic development, demographic change, poverty, and federalism. Prerequisite: POLS 112 or consent of instructor.  
BSS, DSS  
345-Parties and Interest Groups - 3  
Characteristics of party system and its components, its interrelationships with interest groups and their impact on the political system, recent changes. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
346-Public Opinion - 3  
Formation, transmission, maintenance of political attitudes and opinions; role of political elites and mass media; implications and consequences for American political system. Prerequisite: 112 or consent of instructor.  
BSS, DSS  
350-Western European Political Systems - 3  
Western European countries: historical development, regime types and institutional setups, electoral systems, political party systems, ideologies, state structure and political culture. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EGC, II  
351-Eastern European Political Systems in Transition - 3  
Historical development, political culture, governmental processes, political participation, problems and prospects. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EGC, II  
352-Politics of Development - 3  
Examination of the factors leading to successful democratic transitions with a focus on less developed countries, including political structures, history, culture, behavior, and global impact. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EGC, II  
354-Women and Cross-National Politics - 3  
Women as citizens and as political leaders in the areas of politics, labor, peace, war, and violence. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EUSC, IGR  
355-Political Systems of Latin America - 3  
Selected political systems: historical context, political culture, governmental processes, political participation; problems and prospects. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EGC, II  
356-Political Systems of Asia - 3  
Chinese, Japanese, and Indian political systems: historical context, political cultures, governmental processes, political participation; problems and prospects. Prerequisite: 111 or consent of the instructor.  
BSS, DSS, EGC, II  
370-Introduction to International Relations - 3  
Past and contemporary nation-state system; foreign policy behavior and processes, power, national interests, war, international law, organizations, economy, global problems and prospects. Prerequisite: 111 or consent of instructor.  
BSS, DSS, EGC, II [IAI No. S5 904N]  
371-International Political Economy - 3  
Examination of the interaction of economics and politics, focusing on the effect of international economic issues on...
politics between and within nations and societies. Prerequisite: 111 or consent of instructor.
BSS, DSS

385-Introduction to Political Theory - 3
Basic concepts of political theory (e.g. justice, liberty, equality); forms of political systems; ideas of major political theorists. Prerequisite: 111 or consent of instructor. BSS, DSS

386-American Political Ideas and Their Origin - 3
Sources of contemporary political ideas; colonial, revolutionary, and constitution-building periods; era of democratization, industrialization, civil war and early twentieth century. Prerequisite: 111 or consent of instructor. BSS, DSS

390-The Judicial System - 3
Development, organization, and operation of federal and state court systems. Roles, powers, limits of judges and courts, and other institutions with which they interact. Prerequisite: 112 or consent of instructor. BSS, DSS

391-Philosophy of Law - 3
(Same as PHIL 343)
Philosophical discussion of legal problems and issues in contemporary society such as rights, justice, freedom, responsibility, and punishment. BHUM, DFAH

392-Law and Society - 3
(Same as CJ 348 and PHIL 348) FS
Examines the nexus of culture, dispute management and law. We will explore law as a social construct, focusing on law’s everyday impact on citizen’s lives.

400-Political Science Senior Assignment - 3
Course will address broad theme and seminar will serve as vehicle for developing student understanding of core political science concepts. Required for majors in Political Science. Prerequisite: POLS 300 with a grade of C or better, satisfactory completion of 75 credit hours, and Political Science Major.

410-Legal Internship - 3 to 6
Assignment as paralegal assistant to legal aid attorneys, public defenders, and prosecuting officers under supervision of professional legal officers. Ten hours per week for 3 credit hours. Not for graduate credit. Prerequisite: 390 or consent of instructor.

411-Internship in Government - 3 to 6
FM
Assignment as para-professional in legislative or administrative offices assisting, and under supervision of regular professional employees. Ten hours per week for 3 credit hours. Not for graduate credit. Prerequisites: senior standing, political science major.

425-Environmental Public Policy and Administration - 3
(Same as ENSC 401) S
Explores the theoretical understanding of the policymaking processes through which modern societies attempt to cope with pollution and natural resource problems. BSS, DSS

429-Topics in Public Administration - 1 to 3
Selected administrative problem or process; content may vary from semester to semester. For advanced undergraduates and graduates. May be repeated to maximum of 6 hours. Prerequisite: 320 or consent of instructor. BSS, DSS

430-Review for Teacher Certification - 3
Review of major concepts and processes necessary for teaching political science at the secondary education level. Prerequisites: open only to Political Science Teacher Certification (K-12) students with permission of instructor. BSS, DSS

440-African American Politics - 3
Examination of the politics of African Americans. Description and analysis of the effect of political officials and institutions on African Americans and vice versa. Prerequisite: 112 or consent of instructor. BSS, DSS, EUSC, IGR

441-Women & Politics in America - 3
(Same as WMST 441) M
Consideration of politics and power in gender roles, family, class, occupation, and research, women and the political system and women and public policy. Prerequisite: 112 or consent of instructor. BSS, DSS, EUSC, IGR

443-Politics of Poverty - 3
This course examines the intersection of politics and poverty: political ideologies related to poverty, means of measuring poverty, poverty trends and demographics, and anti-poverty policies. Prerequisite: 112.
BSS, DSS, EUSC, IGR

445-3 Voting and Elections - 3
Political-legal, sociological, psychological bases of voting behavior; theories of electoral outcomes and consequences. Prerequisite: 112 or consent of instructor. BSS, DSS

449-Topics in American Politics - 1 to 3
Selected topics in American politics; content may vary from semester to semester. For advanced undergraduate and graduate students. May be repeated to maximum of 6 hours. Prerequisite: 112 or consent of instructor. BSS, DSS

450-Topics in Comparative Politics - 1 to 3
FM
Selected topics in comparative politics; content may vary from semester to semester. Primarily for advanced undergraduate and graduate students. May be repeated to a maximum of 6 hours. Prerequisite: 111 or consent of instructor. BSS, DSS, EGC, II

472-International Organizations - 3
F Past and present international organizations, origins, structure, decision-making processes, functioning of United Nations and its specialized agencies, problems and prospects. Prerequisite: 370 or consent of instructor. BSS, DSS, EGC, II

473-United States Foreign Policy - 3
Formulation, implementation, content, general policy patterns, international, domestic sources, policy instruments, regional dimensions and implications. Prerequisite: 370 or consent of instructor. BSS, DSS, EGC, II

479-Topics in International Relations - 1 to 3
SM Selected topics in international relations; content may vary from semester to semester. For advanced undergraduate or graduate students. May be repeated to maximum of 6 hours. Prerequisite: 370 or consent of instructor. BSS, DSS, EGC, II

484-Classical Political Theory - 3
(Same as PHIL 440) Works of major political thinkers from ancient times to the Renaissance, including Plato, Aristotle, St. Augustine, St. Thomas, and Machiavelli. Prerequisite: junior standing. BHUM, DFAH, EGC, IC

485-Modern Political Theory - 3
(Same as PHIL 441) Works of major political thinkers from the Renaissance to the present, including Hobbes, Locke, Rousseau, Hegel, Marx, Mill, and Nietzsche. BHUM, DFAH, EGC, IC

489-Topics in Political Theory - 1 to 3
Major issues in political theory or works of one major political thinker. Prerequisite: 385 or consent of instructor. BSS, DSS
495- Constitutional Law: Powers of Government - 3  F
Analyzes Supreme Court decisions regarding judicial, legislative, and executive power and the relationship between states and federal government in range of policy areas.
Prerequisite: 112 with a minimum grade of C with completion of at least 60 hours of college credit or Graduate standing.
BSS, DSS

496- Constitutional Law: Civil Rights and Civil Liberties - 3  S
Analyzes Supreme Court decisions dealing with individual rights, particularly free speech and press, religion, rights of criminal defendants, voting, constitutional protections against race and sex discrimination. Prerequisite: 390 or consent of instructor.
BSS, DSS

497- Environmental Law - 3
Examines regulatory framework that has developed around the protection of various aspects of the environment over the past thirty years. Prerequisite: 111 or consent of instructor.
BSS, DSS

498- Legal Theory - 3  (same as PHIL 498)
Explores contemporary legal theory; emphasis on law and morality, law and society, law and economics, judicial discretion, and fundamental doctrines and principles of a legal system. Not for graduate credit. Prerequisite: 390 or PHIL 111.
DFAH, DSS, SS

499- Topics in Public Law - 3
Selected topics in public law; content may vary from semester to semester. For advanced undergraduates and graduates. May be repeated to maximum of 6 hours. Prerequisite: 390 or consent of instructor.
BSS, DSS

Production (PROD)

315- Operations Management - 3
Study of manufacturing and service operations management. Covers process and product design, quality management, planning/control of materials and capacity, and project management. Prerequisite: MS 251, accounting, CMIS, economics or finance, business administration majors.

490- Independent Study in Operations Management - 1 to 6
Topical areas in greater depth than regularly titled courses permit. Individual or small group readings or projects. May be repeated by permission to a maximum of 6 hours. Prerequisites: consent of instructor and department chairperson.

Psychology (PSYC)

111- Foundations of Psychology - 3  FSM
History; psychological methods and techniques; biological foundations of behavior; learning; motivation; development; personality; social; psychopathology.
BSS, ISS [IAI No. S6 900]

200- Careers in Psychology - 3  FSM
To provide students with information that will help them pursue a career in psychology by incorporating such activities as lectures and small group exercises. Prerequisite: 111 with a C or better and declared major in Psychology.
SS

201- Child Psychology - 3  FSM
Biological and psychological development of child through puberty. Prerequisite: 111.
BSS, DSS [IAI No. S6 903]

203- Adolescent Psychology - 3  FS
Biological and psychological development of adolescent; relationship between childhood development and adolescent behavior. Prerequisite: 111.
BSS, DSS

204- Adult Development and Aging - 3
Examination of psychological and psychosocial factors in development throughout adulthood; myths and realities of aging. Prerequisite: 111.
BSS, DSS [IAI No. S6 905]

205- Lifespan Development - 3
Presents contemporary theory and research related to human physical, psychological, and socio-emotional development across the entire lifespan from conception to death. Prerequisite: 111 with a grade of C or better.
BSS, DSS, EH

206- Social Psychology - 3  FSM
Individual behavior in social situations; social perception; attitude formation and change; social influence; group processes; prejudice and discrimination; aggression; altruism. Prerequisite: 111.
BSS, DSS [IAI No. S8 900]

208- Cognitive Psychology - 3  FSM
A broad survey of cognitive psychology. Topics include attention, perception, memory, language, reasoning and decision making. Prerequisite: 111
BSS, DSS

220- Research Design and Statistics I - 3  FSM
Methods for designing psychological studies and the statistics used to describe and interpret the data. Focus on non-experimental method. Prerequisite: 111 with a C or better and declared major in Psychology.
SS

221- Research Design and Statistics II - 3  FSM
Methods for designing psychological studies and the statistics used to describe and interpret the data. Focus on non-experimental method. Prerequisites: 111 and 220 with a C or better and declared major in Psychology.
SS

303- Health Psychology - 3  FS
This course provides an introduction to the field of health psychology, which is concerned with the roles of behavioral and psychosocial factors on health and disease. Prerequisite: 111 with a grade of C or better, 314 with a grade of C or better, or BIOL 140, or BIOL 240A and 240B.
BSS, DSS, EH

305- Psychology of Gender - 3  (Same as WMST 305)  FSM
Psychological and cultural history of gender; changing sex roles; socialization; sexuality; issues related to mental health, stereotyping, cognition. Prerequisite: 111.
BSS, DSS, EUSC, IGR

311- Learning and Memory - 3  S
Survey in topics related to conditioning, memory, and their integration. Students encouraged to have taken PSYC 208, 220 and 221. Prerequisite: 111
SS

312- Sensation and Perception - 3
Topics include the sensation and perception of visual, auditory, touch, smell, and taste information. Discussion of the biological and cognitive factors related to these senses. Prerequisites: PSYC 111, 208, 220 and 221 with minimum grade of C.
SS

313- Motivation - 3
Biological, social, personality aspects of motivation in seminar and student-conducted experiments. Prerequisite: 220 and 221.
SS

314- Physiological Psychology - 3  FM
Biological foundations of behavior; structure and function of brain related to personality; behavior; health. Prerequisite: 111 or consent of instructor.
BSS, DSS

Course Descriptions
Psychology (PSYC)

320-Introduction to Industrial/Organizational Psychology - 3 FSM
Psychological principles and methods of analysis applied to problems in contemporary work settings. Prerequisite: 111. BSS, DSS

340-Theories of Personality - 3 FSM
Review and critical evaluation of major theories and supporting evidence. Prerequisite: 111. BSS, DSS

365-Group Dynamics and Individual Behavior - 3 S Small group interaction, including topics of group structure and function; group problem-solving, leadership, etc. Prerequisite: 111. BSS, DSS

388-Psychology Internship - 0 Psychology-related work in a business, government or not-for-profit setting under the supervision of a field supervisor. Prerequisites: consent of instructor; GPA above 2.5.

389-Psychology Co-Op - 0 Psychology-related work in a business, government or not-for-profit setting under the supervision of an employer. Prerequisites: consent of instructor; GPA above 2.5. COOP

407-Multicultural Issues in Psychology - 3 S Students will develop a critical framework for looking at the concept of "culture" in contemporary America. Students will explore how culture impacts psychological services. Prerequisite: 111. EUSC, IGR, SS

409-History and Systems of Psychology - 3 Important antecedents of contemporary scientific psychology; issues, conceptual development, major schools and systems. Prerequisites: junior or senior standing, 111, or consent of the instructor. BSS

411-Psychology of Sustainability Behavior - 3 M To explore why people do or do not do the things they should related to the environment. Specifically, it is regarding how psychology can help us understand, predict and change sustainable behavior. Prerequisites: 111 with a minimum grade of C. BSS, DSS

413-Pseudoscience in Psychology - 3 M Skepticism; debunking common psychology myths; critical thinking about the distinction between science and pseudoscience. Why do people believe strange things. Prerequisites: PSYC 111, or consent of the instructor. BSS, DSS

420-Applied Behavior Analysis - 3 M Learning principles; evaluation methods; techniques of managing and modifying human behavior, based upon operant and respondent conditioning. Prerequisite: 111. SS

421-Psychological Tests and Measurements - 3 FSM Principles of psychological measurement, test construction and evaluation; problems in assessment and prediction. Prerequisite: PSYC 220 or consent of instructor. SS

422-Data Analysis with SPSS - 3 FM Comprehensive overview of SPSS. Focus on creating databases, analyzing data and interpreting results. Build students' confidence in using the software on their own. Prerequisites: Undergraduate level PSYC 220 Minimum Grade of C or Undergraduate level PSYC 221 Minimum Grade of C. SS

431-Psychopathology - 3 FSM Overview of psychological disorders like those described in the most recent edition of the DSM. Prerequisite: 111, minimum grade C or better. BSS, DSS

442-Adlerian Psychology: Theory and Application - 3 FM In-depth summary of theory and application of Alfred Adler and Rudolf Dreikurs, applied to mental health and human relations in family, school, clinic, and workplace. Prerequisite: 111 and junior, senior, or graduate standing. BSS, DSS

450-Clinical Psychology - 3 FM Introduces concepts in clinical psychology such as psychotherapy, assessment, current controversies, and ethical and cultural issues. Not for graduate credit. Prerequisite: PSYC 111 or instructor permission. SS

461-Advanced Social Psychology - 3 In-depth readings course on current issues in social psychology. May include social cognition; attitudes; attraction; social influence; aggression; and other issues. Prerequisite: 206 or consent of instructor. SS

473-Personnel Psychology - 3 Psychological principles and techniques used in job selection, placement, training, employee evaluation. Prerequisite: 320 or MGMT 341. SS

474-Organizational Psychology - 3 Relationship between organizational functioning and job satisfaction; motivation; performance; psychological climate in work setting. Prerequisite: 320 or consent of instructor. SS

479-Psychology of Stress and Stress Management - 3 M Physiological, psychological, social, and organizational factors involving stress, are covered, as are theories and models of stress and stress management. Prerequisite: 111 or equivalent, minimum grade of C. BSS, DSS

487-Psychology of Aging - 3 Biological, psychological and sociocultural factors in development and aging; age changes in learning, memory, intelligence, personality; special issues such as retirement, Alzheimer's disease, elder abuse. Prerequisite: 204 or graduate standing. SS

491-Research in Psychology - 1 to 6 FSM Research under faculty supervision. May be repeated up to 27 credit hours; only 9 hours of 491, 493, and 496 (no more than 6 hours in any one course) may be applied toward major in psychology, 3 hours toward minor in psychology. Prerequisites: consent of instructor and chairperson; must have completed at least 18 hours of psychology; GPA above 2.5. SS

493-Field Study in Psychology - 1 to 6 FSM Supervised experiences in clinics, agencies and other professional settings. May be repeated up to 18 credit hours; Only 9 hours of 491, 492, 493, and 496 (no more than 6 hours in any one course) may be applied toward major in psychology, 3 hours toward minor in psychology. Not for graduate credit. Prerequisites: consent of instructor and chairperson; must have completed at least 18 hours of psychology; GPA above 2.5. SS

494-Capstone Seminar in Psychology - 3 Students will integrate critical thinking, communication and research skills by examining significant issues in various
areas of psychology, culminating in a group research project. Prerequisites: 221 with a grade of C or better and senior standing and declared Psychology major.

495-Selected Topics in Psychology - 3
Offered occasionally when needed. May be repeated to a maximum of 9 hours so long as no topic is repeated. Prerequisite: consent of instructor. SS

496-Undergraduate Teaching Assistantship in Psychology - 1 to 3 FSM
Provides experience/exposure to psychology teaching at the undergraduate level under supervision of the instructor of record for students who have successfully completed the given course. Only 9 hours of 491, 492, 493, and 496 (no more than 6 hours in any one course) may be applied toward major in psychology. Prerequisite: consent of instructor and major standing. SS

Public Administration and Policy Analysis (PAPA)

410-Introduction to Microcomputing - 1
Introduction to personal computers and development of skills in using word processing and database applications common to the public sector.

411-Spreadsheet Applications - 1
Development of skills in spreadsheet construction and public sector applications.

412-Introduction to SPSS - 1
Skills in using SPSS-PC: importing files; data entry; data analysis; exporting files. Prerequisite: concurrent enrollment in 420 and consent of instructor.

420-Quantitative Analysis - 3
Research design; descriptive statistics; hypothesis testing; nonparametric statistics; analysis of variance; correlation; regression. Prerequisite: concurrent enrollment in 412 and consent of instructor.

499-Seminar in Public Administration - 1 to 3
Intensive study of selected topic. Topics chosen by department to supplement regular course offerings. May be repeated to a maximum of 9 hours provided no topic is repeated. DSS

Public Health (PBHE)

111-Personal Health - 3 FSM
This freshman seminar will introduce students to basic concepts in personal health and wellness. EH

210-Sexual Health - 3 FSM
Surveys the dynamics of sexual health as related to overall health. Identifies and examines basic issues in human sexuality as relating to larger society. EH

213-Violence & Injury Prevention - 3
Provides a broad understanding of violence and injury as a public health issue. Stresses importance of prevention initiatives, environmental modifications, legal interventions and advocacy. PBHE majors and minors only. EH

220-Drug Use and Abuse - 3
Drug and non-drug alternatives that modify mood and behavior; factors influencing use, effects, and legal control; students' personal values, motivations and choices concerning drug use. EH

230-Emotional health and Stress Management - 3 S
An introduction of a variety of types of positive and negative emotions and their determinants in addition to their contributions to an individual's overall well-being. EH

240-Introduction to Applied Nutrition - 3 FSM
Primary roles of major nutrients in human body functions. Relationships between these nutrients and health outcomes/conditions including diabetes, cardiovascular diseases, cancer, osteoporosis and obesity. EH

300-Women's Health - 3
Explores health trends that affect women. Analysis of psychosocial influences on health with particular emphasis on the link between wealth and health.

305-Foundations of Community Health - 3 FSM
History and philosophy of community health; theory and practice of community health education programs; role of the professional in various health promotion settings. PBHE majors and minors only.

353-Public Health Data Analysis – 3
Basic concepts of bio-statistics, descriptive and inferential statistics and their interpretation and application in resolving real-world public health issues, and hands-on practice of statistic software. Prerequisite: STAT 107 or 244 with a grade of C or better; 355 may be taken concurrently.

355-Introduction to Public Health - 3 FS
Efforts by agencies and organizations to promote, protect, and restore people's health. Role and collaboration efforts of local, state, national, and global health agencies. Prerequisite: PBHE 111 and PBHE majors and minors only.

363-Public Health Policy and Management - 3 FM
Review, analyze, and formulate a public health related policy. A model for an individual, community and society to make informed consumer health related decisions. Prerequisite: PBHE 111 and PBHE majors and minors only.

370-Instructional Strategies in Community Health - 3 S
Strategies for effectively delivering health education in community settings. Analysis of creative technologies, resources, and programs. PBHE majors and minors only. Prerequisite: PBHE 305 with a grade of D or better or concurrent enrollment.

375-Research Methods in Health - 3 S
General concepts and foundations of measurement, evaluation, and research; major methods and techniques of research and evaluation. Special emphasis given to conducting small research assignments. PBHE majors and minors only.

405-Health Coaching - 3 FS
Theories of health behavior and behavior change. Exploration of helping role as it relates to health behavior, health assessment analysis, decision making, problem solving, referral skills. PBHE majors and minors only. Prerequisite: 305.

410-Environmental Health - 3 SM
People's relationship with their environment; impact relationship has on status of one's health; individual and community roles in promotion of environmental health. Not for graduate credit. PBHE majors and minors only. Prerequisite: PBHE 111 or consent of instructor.

420-Contemporary and Controversial Issues in Health - 3 S
Investigation of current controversial issues in health and health care. Emphasis on critical analysis and presentation of complex challenges from a public health perspective. Not for graduate credit. PBHE majors and minors only. Prerequisite: PBHE 305.

455-Introduction to Epidemiology - 3 FS
Epidemiologic terminologies. Description and analysis of disease occurrence using appropriate epidemiologic
measurements. Exploration of causal relationships. Identification of epidemiologic roles in disease control and prevention. Not for graduate credit. PH majors and minors only. Prerequisite: PH 353 with a grade of C or better.

462-Special Topics in Public Health - 1 to 6
Relevant health issues; topic and credit hours announced. May be repeated to a maximum of 6 hours so long as no topic is repeated. PH majors and minors only.

489-Independent Study in Public Health - 1 to 6
Independent projects or readings under the supervision of a public health faculty member. May be repeated to a maximum of 6 hours. Not for graduate credit.

490-Program Planning in Community Health - 3
Principles and approaches of planning programs within the community. Examination of program planning models. Application to various public health settings. PH majors senior standing. Prerequisites: PH 305, 370, 375 and 490 with a grade of C or better. Senior standing.

491-Program Implementation and Evaluation in Community Health - 3
Principles and practices of public health program implementation and evaluation. Application of selected models and assessment strategies of community health. Prerequisites: senior standing, PH 490 with a grade of C or better. Public Health major and minors only.

495-Grant Writing in Public Health - 3
Practical application in the development of a grant for a public health agency or community. Strategies for exploring funding, collaboration, and preparation of quality proposals. Public Health major and minors only. Prerequisite: PH 491 or taken concurrently.

498-Senior Professional Seminar - 3
Discussion of topics related to public health; ethics, professional responsibilities, preparation, certification and future trends. Completion of portfolio and senior assignment required. Prerequisites: PH 491 or taken concurrently.

499-Internship in Public Health - 6
Supervised experiences in health agencies, clinics, government agencies and other professional settings. Not for graduate credit. Requires consent of instructor and program director. Prerequisites: PH 498 or taken concurrently.

Quantitative Reasoning (QR)
101-Quantitative Reasoning - 3
Focuses on mathematical reasoning and real-life problems. Including: management science, coding, social choice and decision making, size and shape, and modeling.

Reasoning and Argumentation (RA)
101-Reasoning and Argumentation 3
Students will learn to analyze, critically evaluate, and construct arguments. Topics include organizing information, detecting fallacies, analyzing meaning, and using effective methods of argumentation.

Russian (RUSS)
101-Elementary Russian I - 4
Listening, speaking, reading, and writing within context of Russian culture. Lab included.

102-Elementary Russian II - 4
Continuation of 101. Lab included. Prerequisite: 101.

Science (SCI)
241a-Foundations of Science - 3
General background in science. Laboratory emphasis on process skills, hands-on activities, and projects suitable for children in grades K-8. (a) chemistry, biology, and design projects. Prerequisites: (a) CIED 100 with a grade of C or better, or CI 200, or SPE 200, or SPE 100. (previous or concurrent enrollment).

241b-Foundations of Science - 3
General background in science. Laboratory emphasis on process skills, hands-on activities, and projects suitable for children in grades K-8. (b) physics, earth science, and design projects. Prerequisites: CIED 100 or SPE 100 with a grade of C or better. (previous or concurrent enrollment).

401-Selected Topics in Physics - 2 to 4
New discoveries and/or methodologies and techniques in the field. Demonstration and laboratory experiences to support the learning process. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: consent of instructor.

405-Selected Techniques in Physics - 2 top 4
Modern experiments, demonstrations, and equipment; advances in technology; laboratory management and safety. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: two years of college science and mathematics.

411-Selected Topics in Chemistry - 2 to 4
New discoveries and/or methodologies and techniques in the field. Demonstration and laboratory experiences to support the learning process. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: two years of college science and mathematics.

414-History of Chemistry - 1 to 3
Topics in history of chemistry. May be repeated to a maximum of 6 hours so long as no topic is repeated. Prerequisite: consent of instructor.

415-Selected Techniques in Chemistry - 2 to 4
Modern experiments, demonstrations, and equipment; advances in technology; laboratory management and safety.
May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: two years of college science and mathematics.

421-Selected Topics in Biology - 2 to 4
New discoveries and/or methodologies and techniques in the field. Demonstration and laboratory experiences to support the learning process. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisites: two years of college science and mathematics.

425-Selected Techniques in Biology - 2 to 4
Modern experiments, demonstrations, and equipment; advances in technology; laboratory management and safety. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: consent of instructor.

431-Selected Topics in Earth and Environmental Science - 2 to 4
New discoveries and/or methodologies and techniques in the field. Demonstration and laboratory experiences to support the learning process. May be repeated to a maximum of 8 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: two years of college science and mathematics.

436-Selected Techniques in Earth and Environmental Science - 2 to 4
Modern experiments, demonstrations, and equipment; advances in technology; laboratory management and safety. Primarily for teachers of science. Prerequisites: two years of college science and mathematics.

442-Special Topics in Teaching Science in Elementary School - 1 to 4
Topics of special interest in teaching science. Lecture and/or laboratory format. May be repeated to a maximum of 8 hours as long as no topic is repeated. Prerequisite: two years of college science and mathematics.

451-Integrated Science - 3
Laboratory-based integrated science course. Interactions of the sciences: earth and space, physical, life sciences and mathematics. Research project, paper, and presentation. Prerequisites: completed 24 semester hours of science credit; 2.5 or higher GPA.

452-Special Topics in Teaching Science in the Secondary School - 1 to 4
Topics of special interest in teaching science. Lecture and/or laboratory format. May be repeated to a maximum of 8 hours as long as no topic is repeated. Prerequisite: consent of instructor.

462-Special Topics in Teaching Science in College - 1 to 4
Topics of special interest in teaching science. Lecture and/or laboratory format. May be repeated to a maximum of 8 hours as long as no topic is repeated. Prerequisite: two years of college science and mathematics.

489-Independent Study in Science Education - 1 to 3
Supervised study of assigned material based on needs of student. May be repeated to a maximum of 9 hours as long as no topic is repeated. Primarily for teachers of science. Prerequisite: consent of instructor.

Social Work (SOCW)

200-Foundations of Social Work I – 4
Introduction to the profession by examining the skills, knowledge and perspectives in social work. Emphasis on values, ethics, and populations at risk. Includes 40 hours at a social service agency. BSS, DSS

201-Foundations of Social Work II – 3
Examination of social welfare settings including their functions, clientele, and methods of service provision at all client systems levels. Prerequisite: consent of program director. DSS

211-Micro Skills of Counseling – 3
Basic counseling skills such as empathy, paraphrasing, and focusing will be taught, with one lecture and one lab session per week. Prerequisite: consent of program director.

301-Introduction to Social Welfare Policy – 3
Analysis of problems faced by individuals, families, groups, and communities; relationships between definitions of problems and society's responses to them, especially policy. Prerequisites: 211 with a minimum grade of B, HIST 201, POLS 112.

302-Human Behavior in the Social Environment I – 3
Perspectives on human functioning from a range of theories with social work application to individuals, families and groups; emphasis on developmental perspectives and human diversity. Prerequisites: 211 with a minimum grade of B, PSYC 111, BIOL 111.

303-Human Behavior in the Social Environment II – 3
Perspectives on human functioning from a range of theories with social work application to neighborhoods, organizations and communities; emphasis on developmental perspectives and human diversity. Prerequisites: 211 with a minimum grade of B, ANTH 111.

315-Social Work Practice with Individuals and Families – 3S
Problem solving model for generalist social work practice. Applications for working with individuals and families. Includes weekly lab. Prerequisites: 211 with minimum grades of B.

316-Social Work Group Practice - 3
Study of generalist social work practice with groups; survey of selected group intervention models. Includes weekly lab. Prerequisite: 211 with a minimum grade of B.

357-Juvenile Delinquency – 3
Reviews the causes, prevention, treatment and laws and policies related to juvenile delinquency and the structure of the juvenile justice system. Not for graduate credit. DSS

370-Child Welfare - 3
Examination of child welfare including models of intervention, types of abuse and neglect, functions of case management and issues of cultural diversity. Prerequisite: 200, junior or senior standing.

386-Health Care Issues in Social Work – 3
Examines contemporary health issues such as hypertension, diabetes, childhood obesity, with emphasis on HIV/AIDS and how these diseases relate to populations at risk. Not for graduate credit. Prerequisites: BIOL 111; junior or senior standing.

388-Chemical Dependency – 3
Examines the bio-psycho-social perspective of chemical dependency; focusing on drug availability, effects, assessment, interventions, and public policies. Not for graduate credit. Prerequisite: junior or senior standing.

390-Diversity and Issues of Social and Economic Justice – 3 SM
Examines backgrounds and needs of diverse populations including persons who are at-risk. Forms of oppression, social and economic justice issues, and values and ethics. Not for graduate credit. Prerequisite: junior or senior standing. BSS, DSS, EUSC, IGR
495-Special Topics in Social Work – 3
Topics not included in regular course offerings. Topic and prerequisites specified in semester course schedule. May be repeated to a maximum of 9 hours with different topics. Not for graduate credit. Prerequisite: junior or senior standing.
DSS

Social Work (SOCW)

851-Introduction to Sociology – 3
BSS, EUSC, ISS [IAI No. S7 900]

902-Social Problems – 3
BSS, DSS [IAI Course No. CRJ 912]

903-Special Topics in Social Work – 3
DSS

Sociology (SOC)

Introduction to Sociology – 3
BSS, EUSC, ISS [IAI No. S7 900]

Survey of Theory – 3
BSS, DSS

Survey of key statistical concepts, their application and interpretation. Using a computer to calculate and graphically display statistics. Creating and manipulating data sets. Hypothesis testing.
DSS, SS

Race and Ethnic Relations – 3
BSS, DSS, EUSC, IGR [IAI No. S7 903D]

Gender and Society – 3
BSS, DSS, EUSC, IGR
309-Social Inequality – 3 FSM
Extent and causes of social inequality. Attention to consequences of the sustained existence of such inequalities in our everyday lives.
BSS, DSS, EUSC

310-The Sociological Study of Sexualities and Society – 3 (Same as WMST 310)
The sociological studies of sexualities with an emphasis on how sexualities are shaped by and operate within various institutions including medicine, economy, family, and education.
BSS, DSS, EH

317-Sociology of Harry Potter – 3
Examine core sociological concepts through the lens of Harry Potter: culture; social institutions; social stratification; group affiliation. Harry Potter as a cultural and global phenomenon.
BSS, DSS

325-Sociology of Community Action – 3 F
Sociological contexts of participation in social service and activist endeavors; focus on strategies, tactics, organization, and field-work methodology; in preparation for Sociology 326. Prerequisite: sociology major with 9 credit hours of sociology or consent of instructor.
SS

335-Urban Sociology – 3 F
Rise, development, structure, culture, planning, and problems in early and modern cities. Some attention to urban social segregation. BSS, DSS, EUSC, IGR

360-Sociology of Immigration – 3 Focus on immigration to the US; reasons people leave their home countries; effects on economic conditions and families; effects of race on US immigration policy. BSS, DSS, EGC, EUSC, IC, IGR, II

390-Sociological Perspectives – 3 FSM
Topics not included in regular course offerings. May be repeated or taken in multiple 3-credit sections without limit on the total number of credit hours taken, provided no topic is repeated.
BSS, DSS

391-Marriage and Family – 3 (Same as WMST 391)
Marriage and the family in U.S. society; behavioral change including gender roles, dating and mate selection, love and intimacy, alternative family forms, communication/conflict, divorce/remarriage.
BSS, DSS, EUSC

392-African American Communities – 3 Through ethnographies and case studies, the diversity, agency, resiliency, and struggles of African American communities (in the United States) are illuminated.
BSS, DSS [IAI No. S7 902]

394-3 Sociology of the Black Family – 3 (Same as WMST 394)
The black family in U.S. society. Historical and sociological study of contemporary black family forms; gender roles; love; intimacy and mate selection; parenting; and well-being of children.
DSS, EUSC, IGR, SS

396-Readings in Sociology – 1 to 6 SM
Supervised reading, projects, and field experience in selected areas. May be repeated for up to 6 hours provided no topic is repeated. Prerequisite: consent of instructor and chairperson.
SS

411-Social Movements – 3 F
Reviews the emergence, endurance and outcomes of social movement activism mainly in the US. Looks at the theory and empirical realities, paying special attention to political opportunity structures, internal mobilizing structures, and cultural approaches.
BSS, DSS, EUSC

421-Individual and Society – 3 F
Integration of individual and society; role structure and orientation to society; habits, communication, channels of meaning, emergence, presentation and defense of self.
BSS, DSS

422-White-Collar Crime – 3 (Same as CJ 422) S
An examination of the nature, extent, and distribution of white-collar crime as well as its causes, correlates and control. Prerequisites: SOC 272 or junior/senior standing or consent of instructor.
BSS, DSS

431-Employment and Workplace Change – 3 F
Practical application and critical analysis of theories, approaches, strategies of organizational and workplace change. Organizations as mechanistic, organic, cultures, political systems and arenas of conflict.
BSS, DSS

433-Internship in Sociology – 3 S
Supervised placement in actual non-profit/social movement organization or for-profit business culminating in a written research paper relating coursework to the experience and an oral presentation to sociology faculty. Prerequisites: Sociology majors w/ Employment Relations or Diversity and Social Justice concentrations, SOC 111, 301, 302, 303, and either (SOC 338 and 431 w/ concurrency) or (SOC 325 and 411 with concurrency) with a grade of C or better in all required classes, plus 5 sociology classes; with advisor consent.
SS

440-Sociology of Popular Culture – 3 S
Relevant theories, methodologies, and works of original research. Students apply knowledge gained by analyzing examples from contemporary popular culture.
BSS

444-Gender, Ethnicity, and Class in the Workplace – 3 (Same as WMST 444)
Traces the evolution of work for women of different races and classes, and studies what issues women now face in the public and private spheres.
BSS, DSS, EUSC, IGR

470-Sociology of Deviance – 3 (Same as CJ 470) B
Behaviors such as prostitution, drug use, murder, racism, sexual variances, rape and insanity examined theoretically and empirically. Prerequisite: Sociology majors w/ Employment Relations or Diversity and Social Justice concentrations, SOC 111, 301, 302, 303, and either (SOC 338 and 431 w/ concurrency) or (SOC 325 and 411 with concurrency) with a grade of C or better in all required classes, plus 5 sociology classes; with advisor consent.
BSS, DSS

472-Explaining Crime – 3 (Same as CJ 472) B
Examination of the relationship between classical and contemporary criminological theory, research, and policy. Prerequisites: SOC 272, and junior/senior standing or consent of instructor.
BSS, DSS

474-Victims and Society – 3 B
Sociological analysis of war, crime, inequality, racism, sexism and other victim-generating conditions and processes; a non-lecture, active-learning course. Prerequisites: 111 and senior standing, or consent of instructor.
BSS, DSS
490-Special Topics in Sociology – 3
Topics not included in regular course offerings. May be repeated once to a maximum of 6 hours provided no topic is repeated.
DSS, SS

493-Sociological Research Workshop – 3 FS
In Sociological Research Workshop, general sociology students will learn how to read and write about the scholarly work of others, develop a research question, write a literature review and develop appropriate theory and methods related to their own research question. Prerequisites: sociology seniors, 111, 301, 302, C or better, and three SOC electives, D or better. SS

495-Senior Assignment Seminar – 3 FS
Conduct a social research project based on proposal developed in 301, 302 and 303. May use survey, participant observation, evaluation/assessment, or other quantitative or qualitative methods. Not for graduate credit. Prerequisites: 111, 301, 302, 303, 493 with minimum grade of C.

Spanish (SPAN)

101-Elementary Spanish I - 4 FSM
Listening, speaking, reading, and writing. Culture of Spanish-speaking countries. Lab included.
BICS, FL, SKFL

102-Elementary Spanish II - 4 FSM
Continuation of 101. Lab included. Prerequisite: 101 or placement testing.
BICS, EGC, IC, FL, SKFL

104-Elementary Spanish - 8
Intensive instruction in listening, speaking, reading, and writing. Culture of Spanish-speaking countries. Lab included. Equivalent to 101 and 102. Must enroll for all 8 hours credit. Check with department chairperson to determine whether course will be offered.
EGC, IC, FL, SKFL

201-Intermediate Spanish I - 4 FS
Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings; compositions. Lab included. Prerequisite: 102 or placement testing.
BICS, DFAH, FL, SKFL

202-Intermediate Spanish II - 4 FS
Continuation of 201. Lab included. Prerequisite: 201 or placement testing.
BICS, DFAH, FL, SKFL [IAI No. H1 900]

301-Advanced Spanish - 4 FS
In-depth grammar review. Composition and conversation. Lab included. Prerequisite: 202 or consent of instructor.
BICS, DFAH, FL, SKFL

302-Advanced Spanish - 4 FS
Selected topics in grammar, readings, and composition. Lab included. Prerequisite: 202 or consent of instructor.
BICS, DFAH, FL, SKFL

303-Academic Spanish - 3 F
Spanish grammar, spelling, and vocabulary for academic purposes. Formal study of the Spanish language to develop oral and written Spanish for academic purposes. Prerequisite: 202 with a grade of C or higher or placement testing, and instructor/department chair consent.
BHUM, DFAH, EUSC

304-Interpretation - 3 M
Oral translation of selected passages, alternating between English and Spanish; development of precision and clarity in both languages. Prerequisite: 202 or consent of instructor.
BICS, DFAH, HUM

305-Computer-Assisted Written Translation - 4
Computerized automatic translation: English/Spanish and Spanish/English. Lab included. Prerequisites: 202 or consent of instructor, some familiarity with word processing.
DFAH, HUM

306-Contemporary Spanish Professional Readings - 3
Selections from publications related to professions and issues. Prerequisite: 202 or consent of instructor.
BICS, DFAH, HUM

307-Business Spanish - 3
Oral and written business expression; specialized terminology and idioms. Prerequisite: 202 or consent of instructor.
BICS, DFAH, EGC, HUM

308-Spanish Linguistics - 4 M
The linguistics features of the Spanish language system; including phonology, morphology, pragmatics, sociolinguistics and comparisons among varieties of Spanish and other languages. Required for majors seeking certification to teach Spanish. Prerequisite: 301 or consent of instructor.
BICS, DFAH, HUM

311-Contemporary Spain - 3 M
Analysis of significant aspects of Spanish culture to improve intercultural understanding and develop language skills. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

312-Contemporary Spanish America - 3 S
Analysis of significant aspects of Spanish-American culture to improve intercultural understanding and develop language skills. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

320-Advanced Spanish Conversation - 3
Practice in advanced-level conversation. Focus on pronunciation and fluency. Prerequisite: 202, placement testing, or instructor permission.
BICS, DFAH, EGC, HUM, IC

351-Survey of Spanish Literature: Peninsular - 3
Representative prose, poetry, drama. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

352-Survey of Spanish-American Literature: Colonial Period until the Present - 3 FS
Representative prose, poetry, drama. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC, IC

353-Survey of Drama in the Spanish Language - 3
Selected readings, literary and cultural background. Prerequisite: 202 or consent of instructor.
BHUM, DFAH, EGC

392-Spanish in the Community - 3
Spanish service-learning class in which students are exposed to and volunteer in the Hispanic communities of Illinois and Missouri. Prerequisite: 301 with a grade of A and/or instructor's consent.
BICS, EGC, EUSC, IC, IGR, SKFL, SKOC

400-Senior Essay in Spanish - FS
Supervised research and preparation of an extensive scholarly paper in Spanish. Not for graduate credit. Usually taken after completion of all major courses. Prerequisite: senior standing or consent of instructor.
BHUM, DFAH, EUSC

412a-U.S.A. Hispanics - 3
Hispanic cultures in the USA. Study of the unique contributions of Mexican Americans through their language, literature and the arts. Prerequisite: 301 or 302 or consent of instructor.
BHUM, DFAH, EUSC
412b-U.S.A. Hispanics - 3
Hispanic cultures in the USA. Study of the unique contributions of Cuban Americans and Puerto Rican Americans through their language, literature and the arts. Prerequisite: 301 or 302 or consent of instructor. DFAH, HUM

440-Contemporary Spanish American Cinema - 3
A survey of Latin American cinema, concentrating on the critical analysis of representative films, with particular attention to different national cultures. Prerequisite: 311 or 312 with a minimum grade of "C" or better or consent of instructor. BHUM, EGC, IC, II

451-Studies in Spanish Literature: Beginnings through 17th Century - 3
Literary analysis of prose, poetry, and drama, 11th through 17th centuries. Not for graduate credit. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH, EGC, IC

452-Studies in Literature in the Spanish Language: 17th through 20th Centuries - 3
Continuation of 451. Not for graduate credit. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH, EGC, IC

453-Seminar in Hispanic Literature - 3
Critical and analytical study of masterpieces. Not for graduate credit. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH, EGC, IC

454-Seminar - 3 to 6
Critical and analytical study of selected topics of literature or literary criticism. May be repeated to a maximum of 6 hours provided that no topic is repeated. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH

457-Don Quixote - 3
Critical and analytical study of Cervantes' masterpiece. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH, EGC, IC

461-Spanish Stylistics - 3
Writing style: application of stylistics to development of skill in written expression. Advanced work in principles of grammar and composition. Prerequisite: 301 or 302 or consent of instructor. DFAH, HUM

471-Spanish-American Literature: Short Stories and Novel - 3
Representative works of last four decades of 20th century. Not for graduate credit. Prerequisite: 301 or 302 or consent of instructor. BHUM, DFAH, EGC, IC

491-Cultural and Language Workshop – Spanish - 3 to 6 M
Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, travel-study abroad. Supervised projects in Spanish. May be repeated to a maximum of 6 hours provided that no topic is repeated. Prerequisite: Advanced or graduate standing. DFAH, EGC, HUM, IC

492-Service Learning for the Advanced Student - 3
Study abroad in a service-learning context. Hands-on field study with emphasis on target culture and language, oral and written communication and supervised individual projects. Prerequisite: 301 or permission of the instructor. DFAH, EGC, HUM, IC, IGR

499-Readings in Spanish - 3
Selected areas of language, literature, and culture. Individual work or small groups supervised by Spanish faculty. Prerequisites: senior standing and consent of instructor. DFAH, HUM

Special Education (SPE)

100-Introduction to People with Disabilities in Society and School - 3
Surveys historical, philosophical and legal foundations of educating people with disabilities; characteristics and needs of individuals with disabilities; roles and responsibilities of professionals. EUSC, IGR

290-Language Development and Acquisition for Educators - 3 SM
Developmental milestones and theory of communication development in both typically developing children and children with disabilities. Identification and characteristics of developmental and acquired communication disorders. Prerequisites: SPE 100 or SPE 400 or concurrent enrollment or consent of instructor.

400-The Exceptional Child - 3
Psychology, identification, and methods of teaching individuals with exceptionalities, including individuals with learning disabilities. Prerequisites: Admission to teacher education program or instructor approval. EUSC

401-Field Practicum I in Special Education - 1 F
Supervised early practicum allows candidates to observe and participate in a special education classroom. Prerequisites: SPE 100 with a grade of B or better and admission to the Special Education program. Must be taken concurrently with SPE 405, 417a, 441 and 442. Not for graduate credit.

402-Field Practicum II in Special Education - 1 S
Supervised practicum allows candidates to participate in special education classrooms containing a range of disabilities. Prerequisites: admission to the Special Education program and SPE 405, 430, and 450 with grades of C or better. Must be taken concurrently with SPE 416, 417b, 430a, 470 and 471. Not for graduate credit.

405-Foundations of Special Education - 3 F
Introduction to problems, characteristics and issues that impact the development of persons with disabilities. Prerequisites: SPE 100 with a grade of B or better and admission to the Special Education program. Must be taken concurrently with SPE 401, 417a, 441 and 442. Not for graduate credit.

412-Assessment for Instructional Decision Making in Special Education - 3 F
Emphasizes processes and procedures for obtaining, interpreting, and analyzing information to facilitate effective educational decision-making. Prerequisite: SPE 402, 416, 417b, 430a, 470 and 471 with grades of C or better. Must be taken concurrently with SPE 418, 421, 422, and 430b. Not for graduate credit.

415-Instructional and Assistive Technology - 3 M
Overview of use of instructional and assistive technology. Course will review hardware, software, Internet technologies and application of assistive technology. Prerequisites: SPE 100 with a grade of B or better and admission to the Special Education program. Not for graduate credit.

416-Functional Curriculum Methods - 3 S
Overview of functional curriculum methods for students with severe/ multiple disabilities. Prerequisites: SPE 401, 405, 417a, 441, and 442 with grades of C or better. Must be taken concurrently with SPE 402, 417b, 430a, 470 and 471. Not for graduate credit.

417a-Introductory Reading and Language Arts Methods in Special Education - 3 F
Candidates will learn and apply foundational theory and methods for teaching reading and language arts to students with disabilities. Must be taken concurrently with SPE 401, 405, 441 and 442. Not for graduate credit.
417b-Advanced Reading and Language Arts Methods in Special Education - 3
Candidates will learn and apply advanced methods of assessment and instruction in reading and language arts for teaching students with disabilities. Prerequisites: SPE 401, 405, 417a, 441, and 442 and grades of C or better. Must be taken concurrently with SPE 402, 416, 430a, 470, and 471. Not for graduate credit.

418-Field Practicum III in Special Education - 3
Supervised practicum requiring the application of knowledge and skills in teaching students with disabilities. Requires 180 hours in the field. Prerequisites: SPE 402, 416, 417b, 430a, 470, and 471 with grades of C or better. Must be taken concurrently with SPE 412, 421, 422 and 430b. Not for graduate credit.

421-Mathematics Methods in Special Education - 3
Preparation of preservice teachers with knowledge and skill in the use of effective teaching techniques in mathematics for persons with disabilities. Prerequisites: SPE 402, 417b, 430a, 470, and 471 with grades of C or better. Must be taken concurrently with SPE 418, 412, 422, and 430b. Not for graduate credit.

422-Adaptations and Accommodations in Content Area Instruction - 3
This course will provide pre-service teachers with the knowledge and skills to provide effective adaptations and accommodations for students with disabilities in content-area instruction. Prerequisites: SPE 402, 415, 416, 417b, 430a, 470 and 471 with grades of C or better. Must be taken concurrently with SPE 412, 418, 421 and 430b. Not for graduate credit.

430a-Introduction to Classroom Management and Behavior Support - 3
Designing effective learning environments that use evidence-based practices to prevent problems and support social interaction and appropriate classroom behavior. Prerequisites: SPE 402, 415, 416, 417b, 430a, 470 and 471 with grades of C or better. Must be taken concurrently with SPE 402, 416, 417b, 470, and 471. Not for graduate credit.

430b-Individualized Behavior Supports - 3
Identifying and assessing problem behavior; using data to design and implement evidence-based interventions for individuals with disabilities. Prerequisites: SPE 402, 416, 417b, 430a, 470, and 471 with grade of C or better. Must be taken concurrently with SPE 418, 412, 421, and 422. Not for graduate credit.

440-Infants and Toddlers with Special Needs and Their Families - 3
Characteristics and interactions of infants and toddlers with special needs and their families; emphasizes collaboration with families and current research, theory, and federal/state policies. Prerequisite: SPE 400.

441-Assessment of Preschool Children with Special Needs - 3
Instruments for assessment of academic, cognitive, perceptual-motor development, diagnosis and remediation. Prerequisite: SPE 440. Must be taken concurrently with SPE 401, 405, 417a, and 442.

442-Methods and Procedures for Teaching Early Childhood Students with Special Needs - 3
Knowledge and skills needed to provide educational services and supports to early childhood students with disabilities and their families. Prerequisites: SPE 440. Must be taken concurrently with SPE 401, 405, 417a and 441.

450-Instructional Planning and Professional Collaboration in Special Education - 3
Course covers content in service delivery models, program planning and collaboration. Must be taken concurrently with SPE 401, 405 and 430. Not for graduate credit.

470-Transition Planning - 2
Overview of transition planning and programming for students with disabilities. Prerequisite: SPE 401, 405, 417a, 441, and 442 with grades of C or better. Must be taken concurrently with SPE 402, 416, 417b, 430a, and 471. Not for graduate credit.

471-School and Family Partnerships for Special Education - 3
Examines educational, psychological, and political issues that arise when developing collaborative relationships between schools and families. Prerequisites: SPE 401, 405, 417a, 441, and 442 with grades of C or better. Must be taken concurrently with SPE 402, 416, 417b, 430a, and 470. Not for graduate credit.

481-Senior Seminar Special Education - 3
Professional, ethical and legal concerns of assessment; instruction, evaluation, behavior management, and accommodations for persons with disabilities. Topic conditions of study approved via contract. Prerequisite: consent of instructor. Not for graduate credit.

496-Readings and Independent Study in Special Education - 1 to 6
Specific problem areas in education of individuals with disabilities. Topic conditions of study approved via contract. Prerequisite: consent of instructor. Not for graduate credit.

498-Workshop: Selected Topics In Special Education - 3 to 6
Topical workshop on concepts, strategies, and concerns in special education. May be repeated to a maximum of 6 hours.

499-Special Education Student Teaching - 12
Teaching students with social and emotional disorders under immediate supervision of cooperating teacher and general supervision of university instructor. Prerequisite: completion of all required coursework. Must be taken concurrently with 481. Not for graduate credit.

Speech-Language Pathology and Audiology (SPPA)

101-Human Communication and its Disorders - 3
Introduction to speech, language and hearing disorders in people of all ages including assessment and treatment techniques.

210-Fundamentals of Language Analysis - 3
This course will provide an introduction to human language with emphasis on clinical language analysis specific to speech-language pathology and audiology majors. Declared majors only. Prerequisites: Completion of SPPA 101 with grade of C or better or concurrent enrollment.

220-Anatomy and Physiology of the Speech and Hearing Mechanism - 3
Structure and function of normal communication system. Declared majors only. Prerequisites: Completion of SPPA 101 with grade of C or better or concurrent enrollment.

231-Phonetics - 3
Basic orientation to speech sounds including their individual differences, descriptions and transcriptions of typical and disordered speech. Declared majors only. Prerequisites: Completion of SPPA 101 and 220 with grades of C or better or concurrent enrollment.

250-Cultural Diversity in SLP/A - 3
This course includes an introduction to cultural differences and the effects of culture on communication. Students will also develop understanding and skills for working with individuals in a culturally diverse workplace with focus on speech-language pathology and audiology. Prerequisite: SPPA 101 with a grade of C or better.

312-Normal Language and Speech Acquisition - 3
Typical development of language, theory and milestones including phonology, morphology, syntax, semantics, and
pragmatics. Declared majors only. Prerequisites: Completion of SPPA 101 and SPPA 210 with grades of C or better or concurrent enrollment.

321-Hearing Science - 3 S
Study of the properties of sound, including theories related to auditory physiology and perception. Declared majors only. Prerequisites: Completion of SPPA 220 with grade of C or better.

322-Speech Science - 3 S
Basic orientation to the physiological components underlying the propagation, acoustics, and perception of the speech signal in normal human communication. Declared majors only. Prerequisites: Completion of SPPA 231 with grade of C or better.

351-Communication Disorders Associated with Genetic Syndromes - 3 S
Describes the characteristics of the speech, language and hearing disorders associated with a number of genetic syndromes. Prerequisite: BIOL 111 or equivalent.

361-Basic Audiology - 3 F
Principles and techniques of pure tone and speech reception and immittance audiometry testing. Declared majors only. Prerequisite: SPPA 321 with grade of C or better.

397-Neuroanatomy and Physiology of the Speech and Hearing Mechanism - 3 S
The brain and neural systems as they relate to normal and disordered communication and its application to clinical case studies. Declared majors only. Prerequisite: Completion of SPPA 220 with grade of C or better.

400-Independent Study in Speech Pathology and Audiology - 1 to 3 S
Investigative consideration of relevant topics not covered extensively in regular curriculum. May be repeated to a maximum of 9 hours. Prerequisite: consent of instructor.

401-Speech Language Pathology and Audiology Co-op - 0 FSM
Cooperative experience in speech-language pathology and audiology. Prerequisites: Declared majors only. Approval from Career Development Services.

402-Speech Language Pathology and Audiology Internship - 0 S
Internship in speech-language pathology and audiology. Prerequisites: Declared majors only. Approval from Career Development Services.

414-Special Topics in Speech-Language Pathology - 1 to 6 S
The purpose of this course is to expose SPPA majors to a variety of topics unique to speech-language pathology and audiology. May be repeated up to a maximum of 6 hours. Prerequisites: Completion of SPPA 101 with grade of B or better.

441-Speech Sound Disorders Child – 3 F
An introduction to speech sound disorders in children; etiology, characteristics, assessment, and treatment; a theoretical and practical perspective. Not for Graduate Credit. Declared majors only. Prerequisite: Completion of SPPA 231 with grade of C or better.

442-Introduction to Voice, Fluency, and Motor Speech Disorders – 3 F
Characteristics of voice, fluency and motor speech disorders including basic diagnostic and intervention strategies. Not for graduate credit. Declared majors only. Prerequisite: Completion of SPPA 322 with grade of C or better.

444-Language Disorders Across the Life Span – 3 S
Etiology, assessment, and intervention with individuals from infancy through adulthood with language disorders. Not for graduate credit. Declared majors only. Prerequisites: Completion of SPPA 312 with grade of C or better.

445-Language Disorders of Adults – 3 F
Etiology, assessment, and intervention with individuals with acquired communication disorders. Prerequisites: Completion of SPPA 220 and 312.

446-Clinical Procedures in Communication Disorders - 3 F
Basic orientation to clinical procedures and observations for therapeutic intervention. Declared majors only. Consent of OCECA. Prerequisite: Completion of SPPA 312 with grade of C or better.

449-Clinical Practicum in Speech-Language Pathology - 1 to 3 S
Supervised clinical practice with individuals with a variety of speech and language disorders. May be repeated to a maximum of 9 hours. Graded Pass/No Credit. Not for graduate credit. Prerequisites: Completion of SPPA 441, 442, 444, 446 and 461 with grades of C or better.

450-Clinical Procedures in Medical and Educational Settings - 3 S
Role of the speech-language pathologist in medical and educational settings including legal, organizational, and professional issues related to service delivery options. Not for graduate credit. Prerequisites: Completion of SPPA 441, 442, 444, 446 and 461 with grades of C or better.

452-Assessment Procedures in Speech-Language Pathology and Audiology - 3 S
Advanced procedures in obtaining, recording, and evaluating assessment results. Not for graduate credit. Prerequisites: Completion of SPPA 441, 442, 444, 446 and 461 with grades of C or better.

469-Clinical Procedures for Individuals with Hearing Disorders - 1 FM
Clinical course in audiological assessment, interpretation, and management. Course includes supervised clinical labs in audiometric test procedures and hearing screenings on- and off-campus. Prerequisites: Declared majors only. Consent of instructor and advisor. Completion of SPPA 361, 3.0 GPA.

471-Aural Rehabilitation - 3 S
Management of persons with hearing impairments including auditory training, speech reading, and counseling. Not for graduate credit. Consent of OCECA. Prerequisites: Completion of SPPA 361 with grade of C or better.

481-Problems and Characteristics of Children with Hearing Impairments - 3 S
Characteristics of speech, language, social, emotional and educational problems of children with hearing impairments. Definitions, current management and service delivery models. Not for graduate credit.

498-Augmentative and Alternative Communication - 3 S
Examination of the transdisciplinary field of augmentative and alternative communication (AAC) as well as to the assistive technologies and diagnostic/treatment approaches critical for AAC. Prerequisites: Completion of SPPA 444, 446 and 452 or equivalent.

499-Senior Assignment Seminar - 2 S
Analytical and critical study of topics related to research, professionalism, and clinical practice in speech language pathology. Not for graduate credit. Declared majors only. Prerequisite: Completion of SPPA 446 with grade of C or better.

Statistics (STAT)

107-Concepts of Statistics — 3 FSM
Basic concepts of descriptive statistics; probability distribution and inferential statistics (estimating parameters and testing
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>244-Statistics</td>
<td><strong>Statistics</strong> — 4 FSM</td>
<td>Summarizing data, including distributions, change and growth, relationships. Basics of survey design and experimental design. Inferential statistics, including confidence intervals and hypothesis testing. Credit may not be granted for both 107 and 244. Prerequisite: MATH 120 or 125 or 145 or 150 with a grade of C or better. BICS, PS, SKST</td>
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<tr>
<td>380-Statistics for Applications - 3 FSM</td>
<td>Descriptive statistics, basic probability rules and distributions, inferences for means, variances and proportions, design and analysis of experiments, regression analysis. Prerequisite: MATH 152 with a grade of C or better. BICS, PS, SKST EL</td>
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<tr>
<td>410-Statistical Analysis – 3</td>
<td>Design of surveys and experiments. Inferential statistics, including confidence intervals and hypothesis testing. Simple and multiple regression. May not be used to satisfy requirements of a mathematics or statistics major specialization or minor. Prerequisites: MATH 150 with a grade of C or better, or consent of instructor.</td>
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<tr>
<td>478-Time Series Analysis – 3 aF</td>
<td>Statistical analysis of time series. Regression and exponential smoothing. Box- Jenkins methodology. Prerequisites: 380 or 480b with a grade of C or better.</td>
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<tr>
<td>480A,B-Introduction to Mathematical Statistics – 3 each 480A,F, 480B-S</td>
<td>Mathematical statistical theory. Probability models, distributions of random variables, sampling distributions, generating functions, central limit theorem and limiting distributions, parameter estimation, statistical hypotheses, linear models. Must be taken in sequence. Prerequisite: A) MATH 250 with a grade of C or better B) 480A with a grade of C or better.</td>
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<tr>
<td>481-Design and Analysis of Experiments with Applications to Science and Engineering- 3 (Same as IE 464) S</td>
<td>Design for experimentation and statistical inference with engineering and science applications. One-way, two-way classification; complete and incomplete block designs. Factorial and fractional factorial designs. Prerequisite: 380 or 480a,b with grades of C or better.</td>
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<td>482-Regression Analysis – 3 F</td>
<td>Inference in simple, multiple, polynomial and non-linear regression. Stepwise regression, subset selection; residual analysis, transformations and diagnostics. Prerequisite: 380 or 480a,b with grades of C or better, or consent of instructor.</td>
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<td>483- Sample Surveys - 3 aF</td>
<td>Simple random sampling, stratified sampling, one-stage and two-stage cluster sampling. Ratio, regression, difference estimation. Estimation of population size. Prerequisite: 380 or 480a,b with grades of C or better, or consent of instructor.</td>
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<td>484-Reliability Engineering – 3 (Same as IE 463) aF</td>
<td>Probabilistic models for the reliability of coherent systems, statistical models for lifetimes of components and for repairable systems. Reliability estimation and production. MIL standards. Prerequisites: 480b or 380 or IE 365 with grades of C or better; or consent of instructor.</td>
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<td>485-Stochastic Processes - 3 aF</td>
<td>Markov chains with applications, Poisson processes, Markov processes with discrete states in continuous time, renewal theory and queuing theory, Brownian motion and stationary processes. Prerequisites: 480a with a grade of C or better.</td>
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<td>486A,B-Actuarial Mathematics – 3 each aF</td>
<td>Utility theory, risk models, survival distributions, life tables. Life insurance models, life annuities, premium calculation, valuation theory for pension plans. Prerequisite: MATH 340 and either 380 or 480a with grades of C or better.</td>
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<td>488-Design and Control of Quality Systems – 3 (Same as IE 465) S</td>
<td>Quality design by experimental design; determination of process capability; quality control using statistical control charts; acceptance sampling. Prerequisites: 480a,b or IE 365 with grades of C or better.</td>
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<tr>
<td>490-Topics in Statistics - 1 to 3</td>
<td>Selected topics in statistics. May be repeated to a maximum of 6 hours. Prerequisite: consent of instructor.</td>
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<tr>
<td>495-Independent Study — 1 to 3</td>
<td>Research and reading in specified area of interest such as analysis of variance, design of experiments, estimation, testing hypotheses, linear models, robust procedures, reliability. May be repeated to a maximum of 9 hours. Prerequisite: written consent of advisor and instructor.</td>
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**Study Abroad (SAB)**

200-Study Abroad - 6-16 University-approved study abroad in a country and institution of the student’s choice. Prerequisites: good standing and sophomore status. 200

300-Study Abroad - 6-16 University-approved study abroad in a country and institution of the student’s choice. Prerequisites: good standing and sophomore status. 300

400-Study Abroad - 6-16 University-approved study abroad in a country and institution of the student’s choice. For undergraduate or graduate credit. Prerequisites: good standing and sophomore status. 400

**Surveying (SURV)**

264-Surveying Fundamentals – 4 FS Surveying applications for construction. Prerequisites: 120, MATH 150 or concurrent enrollment. 264

310-Legal Aspects of Surveying – 3 F History of U.S. Public Land Survey System and government surveys of Illinois. Surveying definitions, rules of evidence and procedures. Laws and administrative rules governing surveying. Prerequisites: 264 or consent of instructor. 310

364-Boundary Surveying – 3 S Evidence and procedures in determining property boundaries and land lines. Laws relating to land surveying in Illinois and Missouri. Role of land surveyor in boundary disputes and locations. Prerequisite: 310 or consent of instructor. 364

470-Internship - 3 FSM Acquisition of hands-on experience in the management of a typical construction project. The jobsite becomes the classroom. Not for graduate credit. Prerequisite: 341, completion or concurrent enrollment in the OSHA 10-hour safety course, Senior standing and consent of instructor. 470

482-Advanced Survey Systems - 4 F Celestial observations and GPS. Surveying instrumentation, 482
operation, error sources, and calibration. Prerequisites: 310 or consent of instructor.

484-Survey Computations and Applications - 4 S
Application of celestial observations and GPS to boundary, topographic, route surveying, and subdivision design. Analysis and adjustment of errors. Prerequisites: 482 or consent of instructor.

Theater (THEA)

111-The Dramatic Experience - 3 FSM
Introductory course to give student understanding of how essential components of theater work together to produce the dramatic experience. BFPA, IFAH (IAI No. F1 907)

112a-Core: Acting I – Introduction to Acting – 3 FS
Fundamentals of acting combining improvisational exercises with method approach to developing role; emphasis on relaxation, imagination, concentration, objectives. Open to non-majors. DFAH, FPA

112b-Core: Acting II – Creating a Role – 3 F
Beginning work in scene study and monologues; emphasizing serious, internal realistic acting techniques applicable to both stage and TV/film. Prerequisite: 112a. DFAH, FPA

114a,b-Core: Forms Of Dramatic Action – 3 each F/S
Principles of dramatic action as exemplified in selected plays. Relationships between theatrical process and dramatic form in tragedy and comedy. Theatre majors only. DFAH, FPA

141-Film Analysis – 3 F
Fundamentals of film analysis studied as a skill essential to the understanding of narrative visual media. DFAH, FPA

150-Core: Scene Design and Construction – 4 FS
Design and execution of scenery used in theater productions. Laboratory required. DFAH, FPA

160-Core: Costume Design and Construction – 4 FS
Construction techniques and design process for costumes used in theater productions. Laboratory required. DFAH, FPA

170-Introduction to Lighting and Stage Management – 3 FS
Fundamentals of lighting design, technology and stage management as used in theater production. Production work is required. DFAH, FPA

199-Theater Production - 0 FSM
Practical backstage work on University Theater productions in scenery, lighting, costumes, props, sound, or makeup. Pass/No Credit Grade. FPA

201a,b-Core: History of the Theater – 3 each F/S
Drama, performance, architecture, design, and cultural environment of (a) Primitive, Greek, Roman, Medieval, Renaissance; (b) Restoration, Eighteenth century, Romantic, Modern. Prerequisite: 114a,b. DFAH, FPA [IAI No. F1908]

205-Theater Business Management Practicum – 1 to 3 Each
Principles of management systems organization and practice as applied to performing arts units. Mission development, personnel selection, funding, budgeting, promotion, operational continuity. Internship. DFAH, FPA

210a-Acting III – Comedy and Characterization – 3 S
Exercises and scene work introducing external techniques for physical/vocal characterization and comedy. Prerequisites: 112a,b. DFAH, FPA

210b-Improvisation
Building the imagination and extending vocal and physical skills through use of improvisation exercises, scenes, and stories. Prerequisite: consent of instructor. DFAH, FPA

215a-Movement and Voice for the Stage – 3 S
Principles of stage movement and theatrical vocal technique: vocal production, vocal and physical characterization, introduction to dialect study and stage combat. Prerequisites: 112a, b and consent of instructor. DFAH

215b-Stage Combat – 3 S
Basic empty-handed combat for the stage. Safety stressed and choreography explored. Weaponry may be introduced. Prerequisite: consent of instructor and good physical health. DFAH, FPA

220-Core: Directing for the Stage – 3 S
Elements of director's craft: interpretation, composition and blocking, design and technical considerations, working with actors and directing a scene. Prerequisites: 112a, 150, 160, or 170. DFAH, FPA

230-Rehearsal and Performance - 2 to 3 S
Acting practicum in stage productions developed for public performance. Role analysis, ensemble playing, rehearsal and performance discipline. May be repeated with consent of instructor. Prerequisite: must be cast in theater production. FPA

235-Introduction to T'ai Chi Ch'uan - 2 S
"Slow motion" exercise that promotes relaxation, circulation, balance, flexibility. Includes principles and postures from short form of Yang style T'ai Chi Ch'uan. FPA

241-Classic Film – 3 S
Highlights of narrative film history with emphasis on periods and movements which have had enduring influence on contemporary film. Prerequisite: 141 or consent of instructor. DFAH, FPA

255-Scene Painting for the Theater - 2 S
Traditional and contemporary techniques including layout, cartooning, lining, textures, color. Studio work. Prerequisite: THEA 150 and 160 FPA

256-Theater Makeup - 2 S
Design and application techniques for stage makeup, including old age, fantasy, stylization, likeness, prosthetics, facial hair, and character analysis. FPA

275-Sound for the Theater - 3 S
Design and practical operations, including sound control, acoustics, loudspeakers, underscoring, and sound effects. BICS, FPA

276-Projects in Stage Management - 1 to 3 Each
Practical experience serving as assistant director and/or stage manager for University or Student Experimental Theater productions. May be repeated to a maximum of 9 hours. Prerequisites: approval of director of production, and consent of instructor. FPA
290-Special Projects - 1 to 3 FSM
Individual work in any area of theater. May be repeated to maximum of 6 hours. Prerequisite: consent of instructor.
FPA

295-Theater Practicum - 1 to 3 FSM
Practical work on University Theater productions. Backstage work in scenery, lighting, costumes, props, sound, or makeup. Work to be arranged for individual needs, interests. May be repeated to a maximum of 6 hours. Prerequisite: consent of instructor.
FPA

298-Introduction to Theater Education in Secondary School - 3 FSM
Philosophies of teaching theater arts in secondary school. Planning and executing of syllabi, lesson plans, instructional strategies, assessment techniques.

310a-Acting IV – Period Styles – 3 DMA
A variety of theater genres are explored through their language, physicalization, history, and dramatic literature. Scenes/monologues performed from each period/style. Prerequisites: THEA 112b and 215a.
FPA

310b-Acting V – International/Experimental Styles – 3 DMA
Utilization of international and experimental performance techniques, designed to promote global and contemporary aesthetics and abilities. Prerequisite: Junior standing or consent of instructor.
EGC, FPA, IC

312-Multi-Cultural Theater in America – 3 DMA
Facilitate understanding of multicultural theater in America through discussion, performance, and play readings centered around artists of different ethnic backgrounds.
DFAH, EUSC, FPA, IGR

315a-Dialects for the Stage – 3 DMA
Foreign and American dialects. Scenes and monologues performed in dialect. International Phonetic Alphabet (IPA) introduced. Prerequisite: THEA 112a.
FPA

315b-Advanced Movement – 3 DMA
Character masks, neutral masks, and other movement techniques are used for characterization, awareness, body, and stage presence. Prerequisites: THEA 112b, 215b.
FPA

340a-Theater Graphics - 3 DMA
Theatrical drawing, painting, and drafting by hand, including perspective drawing, figure drawing, watercolor rendering, and set and pattern drafting.
BFPA

340b-Computers in Theater - 3 DMA
Digital drawing and painting, CAD drafting for scenery, lighting, and patterning for costumes, three-dimensional imagery and printing, introduction to projection design.
FPA, SKCP

350-Scene Design – 3 DMA
Advanced study including scene design concepts and environments, script analysis and collaboration, design projects, research, and critique sessions. May be taken twice. Prerequisite: THEA 250 or 340A.
DFAH, FPA

360-Costume Design – 3 DMA
Advanced study including design elements and concepts, script analysis, rendering techniques, and research of period costume for the design of theatrical and dance costumes. Prerequisite: THEA 160.
DFAH, FPA

370-Advanced Lighting Design – 3 DMA
Advanced study of lighting concepts, lighting environments, light plots, schedules and section drawings. Prerequisite: THEA 170.
DFAH, FPA

392-American Musical Theater:History and Development – 3 DMA
Exploration of the forms of popular entertainments, diverse musical cultures, and landmark musicals which contributed to the evolution and maturation of this uniquely American genre.
BFPA

394-Playwriting – 3 DMA
Provides a close acquaintance with a range of theatrical strategies explored by playwrights and a workshop forum for the development of students' own writing. Prerequisites: ENG 102, sophomore standing.
DFAH, FPA

395-Advanced Studies in Theater Education in Secondary School – 3 DMA
Practical application and execution of teaching theater in the secondary school. Practical work in theater productions at the middle school or high school level. Prerequisites: 298; must have completed all Theater and Dance core courses. This restriction does not apply to non-Theater and Dance majors or minors. Must also have passed the designated basic skills test ACT or TAP.
FPA

399-Special Topics in Theater - 1 to 3 FM
Varied Content. Topics related to theater and/or dance. May be repeated up to 6 hours as long as no topic is repeated. Prerequisites: consent of instructor.
DFAH, FPA

410-Acting as a Career – 3 DMA
Information and skills necessary to gain professional work as an actor or acting teacher. Auditions, photographs, interviews, cold readings, commercials, voice tapes, introduction to television acting. Not for graduate credit. Prerequisite: Senior performance major or consent of instructor.
DFAH, FPA

412-Acting for the Camera – 3 DMA
Acting principles and techniques. Exercises, commercials, and scenes from television scripts will be video-taped and critiqued for on-camera effectiveness. Not for graduate credit. Prerequisites: THEA 112a.
DFAH, FPA

420-Projects in Directing – 3 DMA
Direction of plays staged for performance. Analysis of script, development of director's prompt book, rehearsal procedure, collaborative work with designers. Done under faculty supervision. May be repeated to a maximum of 6 hours. Not for graduate credit. Prerequisites: THEA 220 and consent of instructor.
DFAH, FPA

430-Rehearsal and Performance - 2 to 3 S
Acting practicum in stage productions developed for public performance. Role analysis, ensemble playing, rehearsal, performance discipline. May be repeated with consent of instructor. Not for graduate credit. Prerequisite: must be cast in theater production.
FPA

450-Advanced Scene Design Projects - 1 to 3 S
Advanced practical work on studio or University Theater productions. May be repeated to maximum of 9 hours. Not for graduate credit. Prerequisites: 350 and consent of instructor.
FPA

460-Advanced Costume Design Projects - 1 to 3 S
Advanced practical work on studio or University Theater productions.
productions. May be repeated to maximum of 9 hours. Not for graduate credit. Prerequisites: 360 and consent of instructor. FPA

470-Advanced Lighting Design Projects - 1 to 3
Advanced practical work on studio or University Theater productions. Normally limited to work as lighting designer, assistant lighting designer, or master electrician. May be repeated to a maximum of 9 hours. Not for graduate credit. Prerequisites: 370 and consent of instructor. FPA

475-Advanced Stagecraft Project - 1 to 3 S
Advanced practical work on studio or University Theater productions in area of technical theater. May be repeated to a maximum of 9 hours. Not for graduate credit. Prerequisites: consent of instructor. FPA

485-Special Projects in Computers - 1 to 3
Individual or small group project work in computers as related to performing arts. Computer graphics, computer animation, video enhancing, multi-image slide productions. May be repeated to a maximum of 9 hours. Prerequisites: advanced undergraduate standing and consent of instructor. FPA

490-Special Projects - 1 to 3 FSM
Individual work for advanced students in any area of theater. May be repeated to a maximum of 6 hours. Not for graduate credit. Prerequisite: consent of instructor. FPA

495-Theater Practicum - 1 to 3 S
Practical work in University Theater productions. Backstage work in scenery, lighting, costumes, props, sound, or makeup. Work to be arranged for individual needs, interests. May be repeated to a maximum of 6 hours. Not for graduate credit. Prerequisite: consent of instructor. FPA

498-1-3 Independent Study F
Individual or small group readings under supervision of a faculty member. May be repeated to a maximum of 6 hours. FPA

499a,b,c-3 Senior Assessment in Theater S/F/FS
(a) Performance; (b) Design/Technical; (c) Theater History/ Literature/Criticism. Individual/group projects demonstrating proficiency in theater applications and General Education skills and knowledge. Prerequisite: senior standing and consent of instructor. FPA

University (UNIV)

300-Exploring Leadership - 3
This course is designed to provide student leaders at SIUE with the knowledge and skills to become effective campus leaders. This course is designed to give students an understanding of the theory and foundation of leadership as well as provide opportunities to explore their identities as leaders and practice leadership skills.

Women’s Studies (WMST)

200- Issues in Feminism – 3 FS
Beliefs, values, and commitments of the women’s movement and their implications for lives of both women and men. May count for DSS or DFAH, but not both. BSS, DSS, DFAH, EUSC, IGR

300-Women’s Health - 3 (Same as HED 300)
Explores health trends that affect women. Analysis of psychosocial influences on health with particular emphasis on the link between wealth and health.

305-Psychology of Gender – 3 (Same as PSYC 305) M
Psychological and cultural history of gender, changing sex roles, socialization, sexuality, issues related to mental health, stereotyping, and cognition. Prerequisite: PSYC 111. BSS, DSS, EUSC, IGR

308-Gender and Society – 3 (Same as SOC 308) FS
Sociological and feminist perspectives on women in American society with an emphasis on institutions which create, maintain, and reproduce gender and gender inequality. BSS, DSS, EUSC, IGR

310-The Sociological Study of Sexualities and Society – 3 (Same as SOC 310)
The sociological studies of sexualities with an emphasis on how sexualities are shaped by and operate within various institutions including medicine, economy, family, and education. BSS, DSS

331-Gender and Communication – 3 (Same as SPC 331) SM
Investigation of the influences of gender on the communication process. Activities, exercises and presentations, sensitize students to gender influence on verbal and nonverbal communication. DFAH, EUSC, IGR

341-African-American Women's Writing – 3 (Same as ENG 341) F
Poems, novels, short stories, essays, dramas, autobiography and other texts by African American women writers during various periods from colonial to contemporary times. BHUM, DFAH, EUSC, IGR

344-Women and Values – 3 (Same As PHIL 344)
Examines women’s philosophical contributions to traditional areas of value theory including ethics; social, legal and political philosophies; and philosophies of art and religion. Prerequisite: One prior Philosophy or Women’s Studies course. BHUM, DFAH, EUSC, IGR

345-Women, Knowledge and Reality – 3 (Same as PHIL 345)
The course surveys various feminist theories of knowledge, with particular attention to science and how gender influences our claims to knowledge. BHUM, DFAH, EUSC

346-Feminist Theory – 3 (Same as PHIL 346)
Major theoretical works of women’s movement. Prerequisite: WMST 200 strongly recommended. BHUM, DFAH, EUSC, IGR

350-Women in Social Institutions: A Comparative Approach – 3 (Same as IS 350)
Historical, cultural, and social class differences in contexts of education, family, health care, economics, religion, politics. EUSC, IGR, IS

351-Women in Mass Communications – 3 (Same as MC 351)
Early minority and white women journalists’ struggles. Social, political, technological contexts. Media as tools of social change. Historical patterns. Positive and negative male influences. Prerequisite: junior standing. DFAH, EUSC, IGR

352-Women in the Ancient World – 3 (Same as IS 352)
History, political and social lives, and literary and artistic representations of women in ancient Egypt, Mesopotamia, Greece, and Rome. Prerequisites: Junior or Senior Standing. EGC, EUSC, IS, IC, IGR

353-Representing Women’s Bodies 300-1500 – 3 (Same as IS 353)
Evolution of the ideological construction of the female body as weak or deformed, and the need to transform it so as to be fully human and attain salvation. EGC, IS, IC
Women and Cross Cultural National Politics – 3 (Same as POLS 354)
Women as citizens and as political leaders in the areas of politics, labor, peace, and war and violence. Prerequisite: POLS 111 or consent of instructor.

Gender and Criminal Justice – 3 (Same as CJ 367) S
Explores issues of gender in criminal justice, particularly with regard to offending, victimization, processing, incarcerating, rehabilitating, and among professionals in the field. Prerequisite: CJ 201 or SOC 201.

Special Problems – 3
Varying topics in the study of gender bearing directly on Women’s experience. May be repeated for a maximum of 6 hours provided no topic is repeated.
DFAH or DSS

Marriage and the Family – 3 (Same as SOC 391) FS
Marriage and the family in U.S. society; historical and sociological study of contemporary black family forms, gender roles, love, intimacy and mate selection, parenting, well-being of children. DSS, EUSC, IGR.

Sociology of the Black Family – 3 (Same as SOC 394) BSS, DSS [IAI No. S7 902]
The black family in U.S. society; historical and sociological study of contemporary black family forms, gender roles, love, intimacy and mate selection, parenting, well-being of children. DSS, EUSC, IGR.

Topics in European Women’s History – 3 (Same as HIST 428) BSS, DSS [IAI No. S7 902]
Selected topics in women’s history since the Middle Ages. Chronological framework will vary from semester to semester. BHUM, DSS, EGC, II.

Women in American Social History – 3 (Same as HIST 440) BSS, DSS, EUSC, IGR
Women from various social classes, ethnic and racial groups, and geographic regions. Social institutions such as family; church; schools; etc. Colonial era to present.

Women and Politics in America – 3 (Same as POLS 441) M
Consideration of politics and power in gender roles, family, class, occupation and research; woman and political system and women and public policy. Prerequisite: POLS 112 or consent of instructor. BSS, DSS, EUSC, IGR.

Gender, Ethnicity, and Class in the Workplace – 3 (Same as SOC 444; only SOC 444 approved for Graduate Credit.)
Traces the evolution of work for women of different races and classes, and studies what issues women now face in the public and private spheres. Not for graduate credit. BSS, DSS, EUSC, IGR.

American Masculinity – 3 (Same as HIST 445) DSS, EUSC, IGR
Gender history exploring the different manifestations of manhood as it has been constructed by Americans from the seventeenth century to the present.

Gender and Education – 3 (Same as EPFR 451) S
Policies and practices related to sex-role stereotyping, teacher expectations and gender, curricular bias, discrimination, personnel policies, strategies for change. EUSC, IGR.

Native American Women – 3 (Same as HIST 452) DSS, EUSC, IGR
Investigates Native American gender roles, particularly women’s roles, from an ethnohistorical perspective.

Women and Gender in Islamic History – 3 (Same as HIST 455)
Examines the role of women in Islamic history from the pre-Islamic Middle Eastern context through the establishment of classical Islamic family law to contemporary reforms. DSS, EGR, IC.

Seminar on Women Writers - 3 (Same as FR 456) BHUM, DFAH, EGC, IC
Fiction, nonfiction, drama, and poetry. Taught in English. For credit in FL, term paper written in French.

Women in Art – 3 (Same as ART 473) BSS, DSS, DFAH, EGC
History of women artists from the Renaissance to the present. Prerequisites: 225b with grade of C or better or consent of instructor.

Studies in Women, Language, and Literature - 3 (Same as ENG 478) BHUM, DFAH, EUSC, IGR
Relationships among society, gender, language, and literature: ways women are affected by and depicted in language and literature; literature written by women; feminist criticism. Prerequisite: junior standing or consent of instructor.

Special Problems – 3 Varying topics in the study of gender bearing directly on Women’s experience. May be repeated for a maximum of 6 hours provided no topic is repeated. Prerequisite: consent of Women’s Studies director.

Independent Study – 1-3 Individual research in women’s experience or feminist theory. Content and format to be arranged with instructor. Prerequisite: consent of Women’s Studies director.

Practicum Women’s Studies – 3 Practical learning experience in women-oriented activities or organizations. Ten hours weekly plus readings or paper. Prerequisite: consent of Women’s Studies director.
Southern Illinois University Edwardsville
2018-2019 Undergraduate Catalog Index

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