



Undergraduate  
Catalog

2019 - 2020

SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**

[siue.edu/academics/undergraduate](http://siue.edu/academics/undergraduate)

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## Welcome to the University

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On behalf of the faculty and staff of Southern Illinois University Edwardsville, welcome and congratulations on having chosen SIUE for your college experience! SIUE has recently been classified as a doctoral/professional institution in the Carnegie Classifications of Institutions of Higher Education system and is listed for the fifteenth consecutive year among the best Regional Universities Midwest by *U.S. News & World Report*. Additionally, the University has received the 2018 Higher Education Excellence in Diversity (HEED) award from *INSIGHT Into Diversity* magazine for the fifth consecutive year. SIUE has so much to offer — from quality faculty and academic programs to a wide variety of extracurricular activities and special events.

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 definitely 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. Pembroke  
Chancellor

## University Mission

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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

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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

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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

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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 historical 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**

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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 May 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.

# Academic Calendar — 2019 - 2020

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## Fall 2019

- August 19 Fall classes begin
- August 24 Weekend classes begin
- September 2 Labor Day Holiday
- November 25 - December 1 Thanksgiving Break Holiday
- December 9-13 Final Exams
- December 13-14 Commencement

**Note:** No weekend classes August 30-September 1 and November 30-December 1. Final exams for weekend classes are December 7 following the last class session.

## Spring 2020

- December 16 Winter Session begins
- January 5 Winter Session ends
- January 13 Spring classes begin
- January 18 Weekend classes begin
- January 20 Martin Luther King, Jr. Holiday
- March 9 -15 Break week
- May 4-8 Final Exams
- May 8 & 9 Commencement

**Note:** No weekend classes March 14-15 and April 11-12. Final Exams for weekend classes are May 2 following the last class session.

## Summer 2020

- May 11 May Session begins
- May 25 Memorial Day Holiday
- May 29 May Session ends
- June 1 Summer Term begins
- June 6 Weekend classes begin
- July 3 Independence Day Holiday

**Note:** No weekend classes July 4-5.

## Abbreviations

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- 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.A.T. Master of Arts in Teaching
- 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.P.H. Master of Public Health
- 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

## Degree and Program Listing

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The [abbreviations list](#) provides a quick explanation of the academic acronyms.

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### 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
  - Biochemistry
  - Forensics Chemistry
  - Medical Science

#### Creative Writing — M.F.A.

#### Criminal Justice Studies — B.A., B.S.

#### Criminal Justice Policy - 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 P.B.C.
- Teaching English as a Second Language P.B.C.
- Teaching of Writing P.B.C.
- Graduate Specializations:
  - Literature
  - Teaching of Writing
  - Teaching English as a Second Language

#### 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.**

### **International Studies — B.A**

### **Liberal Studies — B.L.S.**

### **Mass Communications — B.A., B.S.**

- Undergraduate Specializations:
  - Advertising and Strategic Media
  - Journalism
  - Media Literacy

### **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.**

- Media Literacy — P.B.C.

### **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 Specialization:
  - Law

### **Physics — B.S.**

- Undergraduate Specializations:
  - Astronomy
  - Biomedical Physics
  - Photonics 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
  - Design/Technical
  - History/Literature/Criticism

- Performance

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## **School of Business**

### **Accountancy — B.S.A., M.S.A.**

- Graduate Specializations:
  - Business Analytics
  - Taxation

### **Business Administration — B.S., M.B.A.**

- Undergraduate Specializations:
  - Computer Information Systems
  - Economics
  - Entrepreneurship
  - Finance
  - Human Resource Management
  - International Business
  - Management
  - Marketing
- Graduate Specializations:
  - Business Analytics
  - Management
  - Management & Information Systems
  - Project Management

### **Computer Management and Information Systems — M.S.**

- Graduate Specializations:
  - Business Analytics
  - Project Management

### **Marketing Research — M.M.R.**

- Graduate Specializations:
  - Business Analytics

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## **School of Dental Medicine**

### **Dentistry — D.M.D.**

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

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## **School of Education, Health, and Human Behavior**

### **College Student Personnel Administration —**

### **M.S.Ed.**

### **Curriculum and Instruction — M.S. Ed.**

### **Diversity and Equity in Education - 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

### **Literacy Education — M.S.Ed.**

- Literacy Specialist P.M.C.

### **Middle Level Education — B.S.**

### **Nutrition — B.S.**

### **Nutrition and Dietetics - M.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., M.P.H.**

### **School Psychology — S.D.**

### **Special Education — B.S., M.S.Ed., P.M.C.**

### **Speech Language Pathology — M.S.**

### **Speech-Language Pathology and Audiology —**

**B.A., B.S.**

**Teacher Education - M.A.T.**

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## **School of Engineering**

**Civil Engineering – B.S., M.S.**

- Graduate Specializations:
  - Environmental Engineering/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:
  - Land Surveying

**Electrical Engineering – B.S., M.S.**

**Industrial Engineering – B.S., M.S.**

- Undergraduate Specialization:
  - Manufacturing Engineering

**Mechanical Engineering – B.S., M.S.**

**Mechatronics and Robotics Engineering – B.S.**

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## **Graduate Studies and Research**

**Healthcare Informatics – M.S.**

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

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## **School of Nursing**

**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
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## **School of Pharmacy**

**Pharmaceutical Sciences – M.S.**

**Pharmacy – Pharm.D.**

- Graduate Specialization:
  - Pharmacy Education
  - Pharmacy Pediatrics

## **Minor Programs of Study**

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- Aerospace Studies
- African Studies
- Anthropology
- Applied Communication 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
- Geography
- German
- History
- Industrial Engineering
- Instructional Technology

- Latin American Studies
- Literature
- Manufacturing Engineering
- Mass Communications
- Mathematics
- Mechanical Engineering
- Mechatronics and Robotics
- Meteorology and Climatology
- Military Science
- Music
- Native American Studies
- Nutrition
- Peace and International Studies
- Perspectives on Science, Technology, and Medicine
- Philosophy
- Physics
- Political Science
- Pre-Law

- Psychology
- Public Health
- Religious Studies
- Rhetoric and Writing
- Russian Area Studies
- Social Science Education
- Sociology
- Spanish
- Speech Communication Education
- Statistics
- Theater and Dance
- Urban Studies
- Women's Studies

For more information on gainful employment programs at SIUE, please visit [www.siue.edu/financialaid/certificate-programs2014.shtml](http://www.siue.edu/financialaid/certificate-programs2014.shtml)

# Accountancy

## Admission Requirements

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

- 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 website](#), 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 nine prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all nine prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all nine 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 GPA of 2.25 on a 4.0 scale
- Minimum cumulative GPA 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 GPA.

## 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 an accountancy major if they have also earned at least a 2.5 or higher cumulative GPA. 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.

## **Degree Requirements**

### **Lincoln Program General Education Requirements**

\*Courses that require a grade of C or higher.

#### **Foundations Courses (five required)**

- ENG 101\*
- ENG 102\*
- ACS 101\*
- RA 101
- QR 101 (or MATH 150)

#### **Breadth Courses (six 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 (FST 101)
- 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 at SIUE, students must have a total of at least eight courses in the sciences (life, physical or social), including, as part of those eight courses, two 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.

- Social, Physical, or Life Science course (students should choose a course with a lab (EL), to fulfill this requirement)
- Social, Physical, or Life Science course (students will choose from the approved courses)
- ECON 111\* (required for all business majors, also used for breadth course, see above)
- ECON 112\* (required for all business majors, see below)
- MATH 120\* (required for all business majors, also applies as a breadth course, see above)
- MS 250\* (required for all business majors, see below)
- MS 251\* (required for all business majors, see below, also meets one EL course requirement)
- 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#, 301\*, 302, 303\*, 311\*, 312, 315, 321,

340

- ACS 101\*
- CMIS 108\*, 342
- ECON 111\*, 112\*
- ENG 101\*, 102\*
- FIN 320
- GBA 301, 402
- IS 401
- MATH 120\*^
- MS 250\*^, 251\*
- MGMT 330, 331, 441\*
- MKTG 300
- PROD 315

### Plus two of the following:

- ACCT 401, 421, 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 higher) for both MATH 120 and MS 250.

## Retention

Students must achieve and remain in good standing to be retained in the accountancy program. Good standing means a student has a minimum GPA 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 GPAs at SIUE will be placed on program probation. Students will be notified when they are not meeting the GPA retention standards and will be informed of the timeframe allowed to improve their GPA. Students who do not meet retention requirements for two consecutive terms will be separated from the accountancy major. Students whose cumulative GPA is below 2.25 will be removed from the School of Business. Students remaining below a 2.5 accounting GPA 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.

## Degrees Available at SIUE

- Bachelor of Science in Accountancy, Accountancy

## Graduation Requirements

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- Cumulative University GPA required: 2.5
- Accounting GPA (in all required accounting courses taken at SIUE): 2.5
- Business GPA (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 [Degree Requirements](#) section

### Sample Curriculum for the Bachelor of Science in Accountancy

#### Year 1 (Fall Semester)

- (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) **ECON 112** Microeconomics (BSS)\*
  - (1) **FST 101** Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) **ECON 111** Macroeconomics (BSS)\*
  - (3) **ENG 102** English Composition II\*
  - (3) Humanities (BHUM)
  - (3) RA 101, PHIL 212 (RA)
  - (3) Fine and Performing Arts (BFPA)
- 15 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **ACCT 200** Fundamentals of Financial Acct#
  - (3) **MS 250** Mathematical Methods\*^
  - (3) Life (LS), Physical (PS) or Social Science (SS)
  - (3) Life Science (BLS)
  - (3) Quantitative Reasoning 101 or MATH 150 (FQR)
- 15 - Total Credits
- 

#### Year 2 (Spring Semester)

- (4) **MS 251** Statistical Analysis for Business Decisions\* (EL)

- (2) Health Experience (EH)
  - (3) Life (LS), Physical (PS) or Social Science (SS) (EL)
  - (3) U.S. Cultures Course (EUSC)
  - (3) Elective
- 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) ACCT 301 Intermediate Accounting Theory & Practice I\*
  - (3) ACCT 315 Accounting Systems
  - (3) MGMT 330 Understanding the Business Environment
  - (1) GBA 301 Business Transitions I
  - (3) Elective
- 13 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) ACCT 302 Intermediate Accounting Theory & Practice II
  - (3) ACCT 311 Managerial & Cost Acct I\*
  - (3) ACCT 321 Introduction to Taxation
  - (3) PROD 315 Operations Management
  - (3) MGMT 331 Managing Group Projects
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) ACCT 303 Intermediate Acct Theory & Practice III\*
  - (3) ACCT 312 Managerial Cost Accounting II
  - (3) MKTG 300 Principles of Marketing
  - (3) FIN 320 Financial Management (ACCT 311 is a prerequisite)
  - (3) CMIS 342 Information Systems for Business
- 15 - Total Credits

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### Year 4 (Spring Semester)

- (3) ACCT 340 Business Law
  - (3) MGMT 441 Strategic Management\*
  - (3) IS 401 Business & Society (EGC)
  - (1) GBA 402 Business Transitions II
  - (6) Two of the following: ACCT 401, ACCT 421 or ACCT 431
- 16 - Total Credits
- 

### Total Hours 120

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**Notes:** Admission to the School of Business is required to enroll in 300- or 400-level business courses.

\*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.

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**Transfer Students:** Transfer students may contact the School of Business Student Services Office with questions regarding transferability and equivalency of business coursework completed at other institutions.

To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, As, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.



# Anthropology

## Admission Requirements

Students wishing to apply for a major or minor are encouraged to consult with the Department of Anthropology. 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.

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.

## 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](#). Please visit the [Transfer website](#) for more information.

## Degree Requirements

The Bachelor of Arts and Bachelor of Science are based on a common core set of courses. In addition, the Bachelor of Arts requires eight hours of a foreign language, and the Bachelor of Science requires six 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 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.

## Major Requirements

- ANTH 111A Human Ancestry & Adaptation
- ANTH 111B Human Culture & Communication
- ANTH 300 Ethnographic Method & Theory
- ANTH 301 Anthropology in Practice
- ANTH 325 Archaeology Method & Theory
- ANTH 360A&B Biological Anthropology Method & Theory
- ANTH 490A&B Senior Assignment

## Archaeology and Biological Anthropology (select one course)

- ANTH 332 Old World Cities & States
- ANTH 333 New World Cities & States
- ANTH 334 Food & Culture Change
- ANTH 335 Historical Archaeology
- ANTH 336 North American Prehistory
- ANTH 365 Human Origins
- ANTH 366 Human Variation
- ANTH 367 Primatology
- ANTH 368 Archaeology of Death
- ANTH 369 Introduction to Forensic Anthropology
- ANTH 430 Zooarchaeology
- ANTH 432 Prehistory of Illinois
- ANTH 469 Forensic Anthropology

## Cultural and Linguistic Anthropology (select one course)

- ANTH 303 Language, Culture & Power
- ANTH 305 Peoples & Cultures of Native North America
- ANTH 308 Religion & Culture
- ANTH 312 Contemporary Native Americans
- ANTH 340 Environmental Anthropology
- ANTH 350 Applied Anthropology
- ANTH 352 Medical Anthropology
- ANTH 359 Anthropology & Human Rights
- ANTH 404 Anthropology & the Arts
- ANTH 405 Alternative Tourism
- ANTH 408 Anthropological Theory
- ANTH 420 Museum Anthropology
- ANTH 435 Cultural Heritage

## Anthropology Electives: Nine hours

An additional nine 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.

## Retention

Students must maintain a cumulative GPA of at least 2.0 to remain in good academic standing. Students whose cumulative GPA 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.

## General Education Requirements for the Major

University general education requirements are outlined in the [undergraduate academic catalog](#), and included in the sample curriculum.

## Degrees Available at SIUE

- Bachelor of Arts, Anthropology
- Bachelor of Science, Anthropology

## 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 four-year institution
  - A minimum cumulative GPA of 2.0
  - A minimum average of 2.0 in all anthropology courses.
  - Bachelor of Arts only: One year of the same foreign language.
  - Bachelor of Science only: Six credits of field school.
- File an Application for Graduation by the first day of the term in which you plan to graduate.

## 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 Chair of the Department of Anthropology on course selection.

## Sample Curriculum for the Bachelor of Arts in Anthropology

### Year 1 (Fall Semester)

- (3) **ANTH 111B** Human Culture and Communication (BSS, EGC, EUSC)
  - (3) ENG 101 Composition
  - (4) Foreign Language 101 (BICS)
  - (3) QR 101, MATH 150 or Higher
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 
- 17 - Total Credits

### Year 1 (Spring Semester)

- (3) **ANTH 111A** Human Ancestry and Adaptation (BLS)
  - (3) ENG 102 Composition
  - (4) Foreign Language 102
  - (3) RA 101 Reasoning & Argumentation
  - (3) ACS 101 Public Speaking
- 
- 16 - Total Credits

### Year 2 (Fall Semester)

- (3) ANTH Elective (biological or archaeological)
  - (3) Breadth Physical Science (BPS)
  - (3) Breadth Humanities (BHUM)
  - (3) Elective/Minor (FPA or HUM)
  - (3) Elective/Minor
- 
- 15 - Total Credits

### Year 2 (Spring Semester)

- (3) ANTH Elective (cultural or linguistic) (FPA or HUM)
  - (3) Elective/Minor (FPA or HUM)
  - (3) Elective/Minor (FPA or HUM)
  - (2) Experience - Health (EH)
  - (3) Elective/Minor
- 
- 14 - Total Credits

### Year 3 (Fall Semester)

(3) ANTH 300 Ethnographic Method & Theory  
(3) ANTH 325 Archaeological Method & Theory  
(3) Interdisciplinary Studies (IS)  
(3) Elective/Minor  
(3) Elective/Minor  
15 - Total Credits

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### Year 3 (Spring Semester)

(3) ANTH 360A Biological Method & Theory  
(1) ANTH 360B Biological Lab  
(3) ANTH 301 Anthropology in Practice  
(3) Elective/Minor  
(3) Elective/Minor  
(3) Elective/Minor  
16 - Total Credits

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### Year 4 (Fall Semester)

(3) ANTH 490 A&B Senior Assignment  
(3) Elective/Minor (FPA or HUM)  
(3) Elective/Minor  
(3) Elective/Minor  
12 - Total Credits

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### Year 4 (Spring Semester)

(3) ANTH Elective/Internship/Independent Research  
(3) ANTH Elective  
(3) ANTH Elective  
(3) Elective/Minor  
(3) Elective/Minor  
15 - Total Credits

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**Total Hours 120**

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## Sample Curriculum for the Bachelor of Science in Anthropology

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### Year 1 (Fall Semester)

(3) **ANTH 111B** Human Culture and Communication (BSS, EGC, EUSC)  
(3) ENG 101 Composition  
(3) ACS 101 Public Speaking

(3) Breadth Humanities (BHUM)  
(2) Experience Health (EH)  
(1) FST 101 Succeeding & Engaging at SIUE  
15 - Total Credits

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### Year 1 (Spring Semester)

(3) **ANTH 111A** Human Ancestry and Adaptation (BLS)  
(3) ENG 102 Composition  
(3) RA 101 Reasoning & Argumentation  
(3) QR 101 or MATH 150 or Higher  
(3) Breadth Physical Science (BPS)  
15 - Total Credits

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### Year 2 (Fall Semester)

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

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### Year 2 (Spring Semester)

(3) ANTH Elective (cultural or linguistic)  
(3) Elective/Minor  
(3) Elective/Minor  
(3) Elective/Minor  
(3) Elective/Minor  
15 - Total Credits

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### Year 2 or 3 (Summer)

(6) ANTH 473 or ANTH 474 or ANTH 475 Field School  
6 - Total Credits

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### Year 3 (Fall Semester)

(3) ANTH 300 Ethnographic Method & Theory  
(3) ANTH 325 Archaeological Method & Theory  
(3) Interdisciplinary Studies (IS)  
(3) Elective/Minor  
(3) Elective/Minor  
15 - Total Credits

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### Year 3 (Spring Semester)

(3) ANTH 360A Biological Method & Theory  
(1) ANTH 360B Biological Lab  
(3) ANTH 301 Anthropology in Practice (BSS)  
(3) Elective/Minor  
(3) Elective/Minor  
13 - Total Credits

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### Year 4 (Fall Semester)

(3) ANTH 490 A&B Senior Assignment  
(3) Elective/Minor  
(3) Elective/Minor  
(3) Elective/Minor  
12 - Total Credits

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### Year 4 (Spring Semester)

(3) ANTH Elective/Internship/Independent Research  
(3) ANTH Elective  
(3) ANTH Elective  
(2) Elective/Minor  
(3) Elective/Minor  
14 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Applied Communication Studies

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale).

## 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 coursework could be applied to 36-hour program
- Applied communication studies minors: A maximum of nine semester hours of transferred applied communication studies coursework could be applied to 18-hour program

## Degree Requirements

### 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

**Required Courses:** ACS 213, 312, 313, 315, 413, 414, 415\* 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

**Required Courses:** ACS 203, 300, 303, 304, 403, 409\* plus three elective courses

**Recommended electives:** ACS 201, 204, 210, 213, 305, 311, 323, 331, 370, 416, 421, 430, 431, 432, 433, 434, 491

#### Track Option: Interpersonal Communication

**Required Courses:** ACS 201, 323, 421, 422, 424\*, 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 three credit hours per course, may be counted toward 36-hour major.

\*Capstone/Senior Project Course Requirement

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

## Degrees Available at SIUE

- Bachelor of Arts, Applied Communication Studies
- Bachelor of Science, Applied Communication Studies

## Graduation Requirements

### 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 grade of "C" or higher in ACS 329 and ACS 330
- Students in the public relations track must receive a grade of "C" 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

## **Bachelor of Arts in applied communication studies**

Eight hours of the same foreign language, as well as four courses in fine and performing arts in lieu of four life, physical or social science courses. Refer to the [undergraduate academic catalog](#) for specific requirements.

## **Minor Requirements**

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### **Minor in Applied Communication Studies**

#### **Admission**

To be accepted as a minor in applied communication studies a student must attain a cumulative GPA of at least 2.0 (on a 4.0 scale).

#### **Requirements**

- 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 nine semester hours at SIUE

#### **Note**

Students should consult with their College of Arts and Sciences academic advisor at 618-650-5525 or the director of undergraduate studies in the Department of Applied Communication Studies at 618-650-3090, if help is needed 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 nine 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 of Education, Health and Human Behavior Student Services

### **Sample Curriculum for the Bachelor of Science in Applied Communication Studies**

#### **Year 1 (Fall Semester)**

- (3) **ACS 101 Public Speaking**
  - (3) ENG 101 Composition
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

#### **Year 1 (Spring Semester)**

- (3) **ACS 103** Interpersonal Communication (EUSC/BICS)
  - (3) ENG 102 Composition
  - (3) QR 101, MATH 150 or Higher
  - (3) Elective
  - (3) Breadth Life Science (BLS)
  - 15 - Total Credits
-

## Year 2 (Fall Semester)

(3) **ACS 200** (BICS), **ACS 201** (BSS), **ACS 203**,  
or **ACS 213** (BICS)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) Physical Science (BPS)  
(2) Health Experience (EH)  
(3) Breadth Life, Physical or Social Science with a  
lab (EL)  
14 - Total Credits

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## Year 2 (Spring Semester)

(3) **ACS 200** (BICS), **ACS 201** (BSS), **ACS 203**,  
or **ACS 213** (BICS)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) Breadth Life, Physical or Social Science with a  
lab (EL)  
(3) Breadth Life, Physical, Social Science or  
Experience Global Cultures (EGC)  
(3) Elective  
15 - Total Credits

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## Year 3 (Fall Semester)

(3) ACS 329 (BSS) or ACS 330 (BSS)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
15 - Total Credits

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## Year 3 (Spring Semester)

(3) ACS 329 (BSS) or ACS 330 (BSS)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) Minor  
(3) Minor  
15 - Total Credits

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## Year 4 (Fall Semester)

(3) ACS Track Requirement (or recommended ACS  
elective)  
(3) Breadth Life, Physical or Social Science  
(3) Elective  
(3) Minor  
(3) Minor  
15 - Total Credits

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## Year 4 (Spring Semester)

(3) Senior Project: ACS 409 (corporate and  
organizational comm. track), ACS 424 (interpersonal  
comm. track) or ACS 415 (public relations track)  
(3) Elective  
(3) Elective  
(3) Elective/Minor  
(3) Minor  
15 - Total Credits

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## Total Hours 120

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Students wishing to obtain a Bachelor of Arts must  
take two semesters of the same foreign language, as  
well as four courses in fine and performing arts and  
humanities rather than life, physical or social  
science.

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**Transfer Students:** To maximize your transfer  
experience, complete the **bolded**  
courses/requirements pre-transfer and satisfy either  
the Illinois Articulation Initiative (IAI) General Ed  
Core or receive an AA, AS, or AAT (early childhood,  
special ed or math) degree from an IAI community  
college. If 'Minor' requirements are shown, discuss  
careful course selection with the academic advising  
contact. Visit the [transfer credit website](#) to find  
course equivalency guides.

## Sample Curriculum for the Bachelor of Science in Applied Communication Studies Track Option: Corporate and Organizational Communication

## Year 1 (Fall Semester)

(3) **ACS 101** Public Speaking or **ACS**

**103** Interpersonal Communication (EUSC/BICS)  
(3) ENG 101 Composition  
(3) RA 101 Reasoning & Argumentation  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) Breadth Humanities (BHUM)  
(1) FST 101 Succeeding and Engaging at SIUE  
16 - Total Credits

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### **Year 1 (Spring Semester)**

(3) **ACS 103** Interpersonal Communication (EUSC/BICS) or **ACS 101** Public Speaking  
(3) ENG 102 Composition  
(3) QR 101, MATH 150 or Higher  
(3) Elective  
(3) Breadth Life Science (BLS)  
15 - Total Credits

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### **Year 2 (Fall Semester)**

(3) **ACS 203** Introduction to Organizational Communication or **ACS 200** Advanced Public Speaking (BICS)  
(3) ACS 300 Communication in Interviewing  
(3) Physical Science (BPS)  
(2) Health Experience (EH)  
(3) Breadth Life Physical or Social Science with a lab (EL)  
14 - Total Credits

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### **Year 2 (Spring Semester)**

(3) **ACS 200** Introduction to Organizational Communication or **ACS 203** Advanced Public Speaking (BICS)  
(3) ACS 303 Communication Training and Development  
(3) Breadth Life, Physical or Social Science with a lab (EL)  
(3) Breadth Life, Physical, Social Science or Experience Global Cultures (EGC)  
(3) Elective  
15 - Total Credits

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### **Year 3 (Fall Semester)**

(3) ACS 329 Communication Research Methods (BSS) or ACS 330 Theories of Communication (BSS)  
(3) ACS 304 Conflict Management and Communication  
(3) ACS 403 Organizational Communication Theory and Applications  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
15 - Total Credits

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### **Year 3 (Spring Semester)**

(3) ACS 329 Communication Research Methods (BSS) or ACS 330 Theories of Communication (BSS)  
(3) ACS Recommended Elective  
(3) ACS Recommended Elective  
(3) Minor  
(3) Minor  
15 - Total Credits

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### **Year 4 (Fall Semester)**

(3) ACS Recommended Elective  
(3) Breadth Life, Physical or Social Science  
(3) Elective  
(3) Minor  
(3) Minor  
15 - Total Credits

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### **Year 4 (Spring Semester)**

(3) ACS 409 Senior Project in Corporate and Organizational Communication  
(3) Elective  
(3) Elective  
(3) Elective/Minor  
(3) Minor  
15 - Total Credits

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### **Total Hours 120**

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



**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses /requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed, or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

**Sample Curriculum for the Bachelor of Science in Applied Communication Studies**  
**Track Option: Interpersonal Communication**

**Year 1 (Fall Semester)**

- (3) **ACS 101** Public Speaking or **ACS 103** Interpersonal Communication (EUSC/BICS)
  - (3) ENG 101 Composition
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
  - (1) FST 101 Succeeding and Engaging at SIUE
- 15 - Total Credits
- 

**Year 1 (Spring Semester)**

- (3) **ACS 103** Interpersonal Communication (EUSC/BICS) or **ACS 101** Public Speaking
  - (3) ENG 102 Composition
  - (3) QR 101, MATH 150 or Higher
  - (3) Elective
  - (3) Breadth Life Science (BLS)
- 15 - Total Credits
- 

**Year 2 (Fall Semester)**

- (3) **ACS 201** Small Group Communication
  - (3) ACS Track Recommended Elective
  - (3) Physical Science (BPS)
  - (2) Health Experience (EH)
  - (3) Breadth Life Physical or Social Science with a lab (EL)
- 14 - Total Credits
- 

**Year 2 (Spring Semester)**

- (3) ACS 323 Interpersonal Communication Theory and Applications
  - (3) ACS Track Recommended Elective
  - (3) Breadth Life, Physical or Social Science with a lab (EL)
  - (3) Breadth Life, Physical, Social Science or Experience Global Cultures (EGC)
  - (3) Elective
- 15 - Total Credits
- 

**Year 3 (Fall Semester)**

- (3) ACS 329 (BSS) or ACS 330 (BSS)
  - (3) ACS 421 Computer Mediated Communication
  - (3) ACS 422 Family Communication
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor
- 15 - Total Credits
- 

**Year 3 (Spring Semester)**

- (3) ACS 329 (BSS) or ACS 330 (BSS)
  - (3) ACS 434 Nonverbal Communication
  - (3) ACS Track Recommended Elective
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
- 

**Year 4 (Fall Semester)**

- (3) ACS 200 Advanced Public Speaking
  - (3) Breadth Life, Physical or Social Science
  - (3) Elective
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
- 

**Year 4 (Spring Semester)**

- (3) ACS 424 Senior Project in Interpersonal Communication
  - (3) Elective
  - (3) Elective
  - (3) Elective/Minor
  - (3) Minor
- 15 - Total Credits
-

## Total Hours 120

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Students wishing to obtain a Bachelor of Arts must take two semesters of the same foreign language, as well as four additional courses in fine and performing arts or humanities rather than life, physical or social science courses.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Applied Communication Studies Track Option: Public Relations

#### Year 1 (Fall Semester)

- (3) **ACS 101** Public Speaking or **ACS 103** Interpersonal Communication (EUSC/BICS)
  - (3) ENG 101 Composition
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) **ACS 103** Interpersonal Communication (EUSC/BICS) or **ACS 101** Public Speaking
  - (3) ENG 102 Composition
  - (3) QR 101, MATH 150 or Higher
  - (3) Elective
  - (3) Breadth Life Science (BLS)
- 15 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **ACS 213** Introduction to Public Relations (BICS)
- (3) ACS 312 Public Relations Theory and Application

- (3) Physical Science (BPS)
  - (2) Health Experience (EH)
  - (3) Breadth Life Physical or Social Science with a lab (EL)
- 14 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) **ACS 200 Advanced Public Speaking** (BICS)
  - (3) ACS 313 Public Relations Writing
  - (3) Breadth Life, Physical or Social Science with a lab (EL)
  - (3) Breadth Life, Physical, Social Science or Experience Global Cultures (EGC)
  - (3) Elective
- 15 - Total Credits
- 

#### Year 3 (Fall Semester)

- (3) ACS 329 Communication Research Methods (BSS) or ACS 330 Theories of Communication (BSS)
  - (3) ACS 315 Technology Applications in Public Relations
  - (3) ACS 313 Public Relations Writing
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor
- 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) ACS 329 Communication Research Methods (BSS) or ACS 330 Theories of Communication (BSS)
  - (3) ACS 413 Case Studies in Public Relations
  - (3) ACS Track Recommended Elective
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
- 

#### Year 4 (Fall Semester)

- (3) ACS 414 Public Relations Campaign I: Research and Planning
  - (3) Breadth Life, Physical or Social Science
  - (3) Elective
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
-

## Year 4 (Spring Semester)

(3) ACS 415 Public Relations Campaign II:  
Implementation and Evaluation

(3) Elective

(3) Elective

(3) Elective/Minor

(3) Minor

15 - Total Credits

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### Total Hours 120

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Students wishing to obtain a Bachelor of Arts must take two semesters of the same foreign language, as

well as four additional courses in fine and performing arts or humanities rather than life, physical or social science courses.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Art And Design

## Admission Requirements

To be admitted to the Bachelor of Fine Arts program, students must:

- Currently be working towards the Bachelor of Science or Bachelor of Arts
- Complete at least one semester at SIUE
- Attain a cumulative GPA 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 1 or April 1

## 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.

## Degree Requirements

### Major Requirements

#### BFA: Art and Design

After completion of the first two years of the Bachelor of Science, art education or the Bachelor of Arts, art studio, a student may apply for admission to the Bachelor of Fine Arts (see admission requirements for the BFA).

- (12) ART 112A, B, C, D
- (18) ART 202 Intro Studio
  - (3) ART 202E (required)
  - (3) ART 202 A, C, G (1 required) - 3-D Art
  - (3) ART 202 B, D, F (1 required) - 2-D Art
  - (3) ART 202 I or H (1 required) - Digital Art
  - (6) ART 202 (electives)
- (12) ART 225A, B, Art History Electives
- (18-30) Art Studio 300/400 level (major area)
- (3) ART 405
- (3) ART 441
- (3) ART 499 - Thesis

- (69-81) Total

## Retention

- Maintain a cumulative GPA of 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.

## Degrees Available at SIUE

- Bachelor of Fine Arts, Art and Design

## Graduation Requirements

- Complete all general education and specific program requirements.
- Complete Senior Assignment
  - Art-Studio: ART 405 and a final digital portfolio
  - Art and Design: ART 405 and ART 499
- File an Application for Graduation by the first day of the term in which you plan to graduate.
- BFA: A minimum of one year must be completed as a BFA before graduation.

## Sample Curriculum, Bachelor of Fine Arts, Art and Design

Additional program information can be found by visiting [ceramics](#), [drawing](#), [graphic design](#), [metalsmithing](#), [painting](#), [photography](#), [print making](#), [sculpture](#) and [textiles](#).

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## Year 1 (Fall Semester)

- (3) **ART 112A** Foundation Studio: Drawing I
  - (3) **ART 112B** Foundation Studio: Visual Organization I
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) QR 101, MATH 150 or Higher
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
-

## Year 1 (Spring Semester)

- (3) **ART 112C** Foundation Studio: Drawing II
  - (3) **ART 112D** Foundation Studio: Visual Organization II
  - (3) ENG 102 English Composition II
  - (3) Breadth Physical Science (BPS) with a lab (EL)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
- 15 - Total Credits
- 

## Year 2 (Fall Semester)

- (3) **ART 202** I or H Introduction to Studio: Digital Art
  - (3) ART 202E Introduction to Studio
  - (3) **ART 202** B, D, F Introduction to Studio: 2-D Art
  - (3) **ART 225A** History of World Art
  - (3) Breadth Social Science (BSS/EUSC)
- 15 - Total Credits
- 

## Year 2 (Spring Semester)

- (3) **ART 202** A, C, G Introduction to Studio: 3-D Art
  - (3) **ART 202** Introduction to Studio (student choice)
  - (3) ART 300-400 level Major Studio
  - (3) **ART 225B** History of World Art (BFPA, EGC)
  - (3) Breadth Life Science (BLS)/Health Experience (EH)
- 15 - Total Credits
- 

## Year 3 (Fall Semester)

- (4) **Foreign Language 101** (BICS)
- (3) Breadth Fine & Performing Arts or Humanities
- (3) **ART 202** Introduction to Studio (student choice)
- (3) ART 300 400 Level Major Studio
- (3) Art History Elective (FPA)

16 - Total Credits

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## Year 3 (Spring Semester)

- (4) **Foreign Language 102**
  - (3) Breadth Humanities (BHUM)
  - (3) ART 300-400 level Major Studio
  - (3) ART 300-400 level Major Studio
- 13 - Total Credits
- 

## Year 4 (Fall Semester)

- (3) ART 300/400 Level Major Studio
  - (3) ART 300/400 Level Major Studio
  - (3) ART History Elective (FPA)
  - (3) ART 300/400 Level Major Studio or Elective
  - (3) Interdisciplinary Studies (IS)
- 15 - Total Credits
- 

## Year 4 (Spring Semester)

- (3) ART 300/400 Major Studio
  - (3) ART 405 Seminar
  - (3) ART 441 Research in Drawing
  - (3) ART 300/400 Level Major Studio or Elective
  - (3) ART 499 Thesis
- 15 - Total Credits
- 

## Total Hours 120

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**Transfer Students:** 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. Visit the [transfer credit website](#) to find course equivalency guides.

# Art

## Admission Requirements

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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 GPA of at least 2.5 (on a 4.0 scale)

Deadline for submission: November 1 or April 1

### 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 (SEHHB). Therefore, it is essential that any student desiring teacher licensure meet with an advisor in the SEHHB 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 SEHHB advisor. An overall GPA 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 [SEHHB](#)

[section of the undergraduate academic catalog](#), or by making an appointment with an SEHHB advisor.

### Degrees Available at SIUE

- 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](#)

## Graduation Requirements

---

- Complete all general education and specific program requirements.
- Complete Senior Assignment
  - Art-Studio: ART 405 and a final digital portfolio
  - Art and Design: ART 405 and ART 499
- File an Application for Graduation by the first day of the term in which you plan to graduate.
- BFA: A minimum of one year must be completed as a BFA before graduation.

## Degree Requirements

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### Major Requirements

#### Art Education

- (12) ART112A, B, C, D
- (15) ART 202 (ART 202E required)
- (12) ART 225A, B, Art History Elective
- (15) Art Studio 300/400 level
- (12) ART 289, ART 300B, ART 364, ART 365
- (6) Art Electives
- (15) CIED 100, CIED 323, EPFR 315, EPFR 320, SPE 400
- (12) CI 352A, CIED 451B (Student Teaching)
- (95) Total

### Retention

- Maintain a cumulative GPA of 2.0 (BS)
- Attain C or above in all art classes used as prerequisites for other art classes.

- 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 art and design courses without written departmental permission.

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

**Year 1 (Fall Semester)**

- (3) **ART 112A** Foundation Studio: Drawing I
  - (3) **ART 112B** Foundation Studio: Visual Org. I
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) Breadth Life, Physical or Social Science with a lab (EL)
  - (3) Humanities (BHUM/EUSC)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 19 - Total Credits
- 

**Year 1 (Spring Semester)**

- (3) **ART 112C** Foundation Studio: Drawing II
  - (3) **ART 112D** Foundation Studio: Visual Organization II
  - (3) ENG 102 English Composition II
  - (3) Info & Communication in Society (BICS)
  - (3) Breadth Life Science (BLS)
  - (3) Breadth Life, Physical or Breadth Social Science/Health Experience (EH)
- 18 - Total Credits
- 

**Year 2 (Fall Semester)**

- (3) **ART 202** Introduction to Studio (FPA)
  - (3) **ART 202** Introduction to Studio (FPA)
  - (3) **ART 202** Introduction to Studio (FPA)
  - (3) **ART 225A** History of World Art (BFPA, EGC)
  - (3) Breadth Life, Physical or Social Science with a lab (EL)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
- 18 - Total Credits
- 

**Year 2 (Spring Semester)**

- (3) **ART 202** Introduction to Studio (FPA)
  - (3) ART 202E Introduction to Studio (FPA)
  - (3) ART 300-400-level Studio
  - (3) **ART 225B** History of World Art (BFPA)
  - (3) QR 101, MATH 150 or Higher
  - (3) **CIED 100** Introduction to Education
- 18 - Total Credits
- 

**Year 3 (Fall Semester)**

- (3) Breadth Physical Science (BPS)
  - (3) Interdisciplinary Studies (IS)
  - (3) ART 300-400-Level Art Studio
  - (3) Art History Elective
  - (3) Art 289 Practicum in Art Education
  - (3) EPFR 315 Education Psychology
- 18 - Total Credits
- 

**Year 3 (Spring Semester)**

- (3) Breadth Social Science (BSS)
  - (3) ART 300-400-level Art Studio
  - (3) ART 300-400-level Art Studio
  - (3) Breadth Life, Physical or Social Science
  - (3) ART 364 Art Education
  - (3) ART 300b Art Education
- 18 - Total Credits
- 

**Year 4 (Fall Semester)**

- (3) ART 365 Art Education
  - (3) ART 300-400-level Art Studio
  - (3) EPFR 320 Foundations of Educ. in a Multicultural Society
  - (3) CIED 323 Adolescent Content Literacy
  - (3) SPE 400 The Exceptional Child
  - (3) Art Elective
- 18 - Total Credits
- 

**Year 4 (Spring Semester)**

- (6) CIED 352A Student Teaching-Secondary
  - (6) CIED 451B Student Teaching-Elementary
  - (3) Art Elective
  - (3) Art History Elective
- 18 - Total Credits

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## Total Hours 145

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**Notes:** 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.

**Transfer Students:** 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. Visit the [transfer credit website](#) to find course equivalency guides.

## Degree Requirements

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### Major Requirements

#### Art History

- (6) ART 225A, B
- (39) 400-level art history courses

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:

- ART 424
- ART 447A, B
- ART 448, 449, 467
- ART 468A, B
- ART 469A, B
- ART 470 (repeatable to nine hours)
- ART 471 (repeatable to nine hours)
- ART 472 (repeatable to nine hours)
- ART 473, 474, 475, 476, 480, 481, 482
- ART 483 (repeatable to nine hours)
- (6) Studio Art Courses
- (3) Art 485: Methods and Research in Art History
- (3) Art 487: Senior Capstone in Art History
- (6) Electives
- (57) Total

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

### Retention

- Maintain a cumulative GPA of 2.0 (BA)
- 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.

## Minor - Art History Requirements (18 hours)

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- ART 225A,B

### 12 hours from the following:

- ART 424
- ART 447A,B
- ART 448, 449, 451
- ART 468A,B
- ART 469A, B
- ART 470 (repeatable to nine hours)
- ART 473, 475, 476, 480
- ART 481A,B
- ART 483

### Sample Curriculum for the Bachelor of Arts in Art, Art History

#### Year 1 (Fall Semester)

- (3) **ART 225A** History of World Art (BFPA/EGC)
- (3) ENG 101 English Composition I
- (4) Foreign Language 101 (BICS)
- (3) Breadth Humanities (BHUM)
- (3) ACS 101 Public Speaking
- (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

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#### Year 1 (Spring Semester)

- (3) **ART 225B** History of World Art
  - (3) ENG 102 English Composition II
  - (4) **Foreign Language 102**
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - (3) Breadth Social Science (BSS)
  - 16 - Total Credits
-



## Year 2 (Fall Semester)

(3) Art History 400 level (FPA)  
(3) Art History 400 level (FPA)  
(3) Breadth Physical Science (BPS) with a lab (EL)  
(3) Experience United States Culture (EUSC)  
(3) QR 101, MATH 150 or Higher  
15 - Total Credits

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## Year 2 (Spring Semester)

(3) Art History 400 level (FPA)  
(3) Art History 400 level  
(3) Breadth Life Science (BLS)  
(3) Health Experience (EH)  
(3) Minor/Elective  
15 - Total Credits

---

## Year 3 (Fall Semester)

(3) Art History 400 level  
(3) Art History 400 level  
(3) Art History 400 level  
(3) Interdisciplinary Studies (IS)  
(3) Minor/Elective  
15 - Total Credits

---

## Year 3 (Spring Semester)

(3) Art History 400 level  
(3) Art History 400 level  
(3) Art Studio Elective  
(3) Minor/Elective  
(3) Minor/Elective  
15 - Total Credits

---

## Year 4 (Fall Semester)

(3) Art History 400 level  
(3) Art History 400 level  
(3) Art Studio Elective  
(3) Minor/Elective  
(3) Minor/Elective  
15 - Total Credits

---

## Year 4 (Spring Semester)

(3) Art History 400 level  
(3) Art History 400 level  
(3) ART 485 Art History Methods & Research  
(3) ART 487 Senior Capstone in Art History  
12 - Total Credits

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## Total Hours 120

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**Notes:** 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.

**Transfer Students:** 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. Visit the [transfer credit website](#) to find course equivalency guides.

## Degree Requirements

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### Major Requirements

#### Art Studio (BA or BS)

- (12) ART 112A,B,C,D
- (18) ART 202 - Intro Studios
  - (3) ART 202E (required)
  - (3) ART 202 A, C, G (1 required) - 3-D Art
  - (3) ART 202 B, D, F (1 required) - 2-D Art
  - (3) ART 202 I or H (1 required) - Digital Art
  - (6) ART 202 (electives)
- (12) ART 225A,B, Art History Elective
- (12) Art Studio 300/400 level (major area)
- (9) Art Studio 300/400 level (non-major area)
- (3) ART 405
- (66) Total

### Retention

- Maintain a cumulative GPA of 2.0 (BA or BS)
- 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.

## Minor - Art Studio Requirements (18 hours)

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- 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)

### Sample Curriculum, Bachelor of Arts in Art, Art Studio

Additional program information can be found by visiting [ceramics](#), [drawing](#), [graphic design](#), [metalsmithing](#), [painting](#), [photography](#), [print making](#), [sculpture](#) and [textiles](#).

---

### Year 1 Fall Semester

- (3) **ART 112A** Foundation Studio: Drawing I
- (3) **ART 112B** Foundation Studio: Visual Organization I

- (3) ENG 101 English Composition I
  - (3) Breadth Humanities (BHUM)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

### Year 1 Spring Semester

- (3) **ART 112C** Foundation Studio: Drawing II
  - (3) **ART 112D** Foundation Studio: Visual Organization II
  - (3) ENG 102 English Composition II
  - (3) Breadth Life Science (BLS) with a lab (EL)
  - (3) Breadth Social Science (BSS, EUSC)
  - 15 - Total Credits
- 

### Year 2 Fall Semester

- (3) ART 202E Introduction to Studio
  - (3) **ART 202** I or H Introduction to Studio: Digital Art
  - (3) **ART 202** B, D or f Introduction to Studio: 2-D Art
  - (3) **ART 225A** History of World Art (BFPA)
  - (3) Breadth Physical Science (BPS)
  - (3) QR 101, MATH 150 or Higher
  - 18 - Total Credits
- 

### Year 2 Spring Semester

- (3) **ART 202** A,C or G Introduction to Studio: 3-D Art
  - (3) **ART 202** Introduction to Studio (student choice)
  - (3) ART 300-400-level Non-Major Studio
  - (3) **ART 225B** History of World Art (BFPA, EGC)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - 15 - Total Credits
- 

### Year 3 Fall Semester

- (4) **Foreign Language 101** (BICS)
  - (3) Breadth Fine & Performing Arts or Humanities
  - (3) **ART 202** Introduction to Studio (student choice)
  - (3) ART 300-400-level Major Studio
  - (3) Art History Elective (FPA)
  - 16 - Total Credits
-

### Year 3 Spring Semester

- (4) **Foreign Language 102** (EGC)
  - (3) Elective
  - (3) ART 300-400-level Major Art Studio
  - (3) ART 300-400-level Non-Major Studio
  - (3) Breadth Fine & Performing Arts or Humanities
- 16 - Total Credits
- 

### Year 4 Fall Semester

- (3) ART 300-400-level Major Studio
  - (3) ART 300-400-level Non-Major Studio
  - (3) Art History Elective (FPA)
  - (3) Interdisciplinary Studies (IS)
- 12 - Total Credits
- 

### Year 4 Spring Semester

- (3) ART 300-400-level Major Studio
  - (3) ART 405 Seminar
  - (3) Elective
  - (3) Health Experience (EH)
- 12 - Total Credits
- 

**Total Hours 120**

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## Sample Curriculum, Bachelor of Science in Art, Art Studio

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### Year 1 Fall Semester

- (3) **ART 112A** Foundation Studio: Drawing I
  - (3) **ART 112B** Foundation Studio: Visual Organization I
  - (3) ENG 101 English Composition I
  - (3) Breadth Humanities (BHUM)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

### Year 1 Spring Semester

- (3) **ART 112C** Foundation Studio: Drawing II
- (3) **ART 112D** Foundation Studio: Visual Organization II
- (3) ENG 102 English Composition II

- (3) Breadth Life Science (BLS) with a lab (EL)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
- 15 - Total Credits
- 

### Year 2 Fall Semester

- (3) ART 202E Introduction to Studio
  - (3) **ART 202** I or h Introduction to Studio: Digital Art
  - (3) **ART 225A** History of World Art (BFPA)
  - (3) Breadth Life Science (BLS)
  - (3) QR 101, MATH 150 or Higher
- 15 - Total Credits
- 

### Year 2 Spring Semester

- (3) **ART 202** B, D, or F Introduction to Studio: 2-D Art
  - (3) **ART 202** A,C or G Introduction to Studio: 3-D Art
  - (3) ART 300-400-level Major Studio
  - (3) **ART 225B** History of World Art (BFPA, EGC)
  - (3) Breadth Humanities (BHUM) or Experience US Cultures (EUSC)
- 15 - Total Credits
- 

### Year 3 Fall Semester

- (3) ART 300-400-level Major Studio
  - (3) ART 300-400-level Open Studio
  - (3) **ART 202** Introduction to Studio (student choice)
  - (3) Physical Science, Social Science, or Life Science (EL)
  - (3) Art History Elective (FPA)
- 15 - Total Credits
- 

### Year 3 Spring Semester

- (3) ART 300-400-level Major Studio
  - (3) ART 300-400-level Open Studio
  - (3) **ART 202** Introduction to Studio (student choice)
  - (2) Health Experience (EH)
  - (3) Art History Elective (FPA)
- 14 - Total Credits
- 

### Year 4 Fall Semester

- (3) ART 300-400-level Major Studio
- (3) Breadth Social Science (BSS) or Experience US

Cultures (EUSC)  
(3) Art Elective (FPA)  
(3) Interdisciplinary Studies (IS)  
(3) Physical Science, Social Science, or Life Science  
15 - Total Credits

---

### **Year 4 Spring Semester**

(3) ART 300-400-level Open Studio  
(3) ART 405 Seminar  
(3) Physical Science, Social Science, or Life Science  
(3) Physical Science, Social Science, or Life Science  
(3) Physical Science, Social Science, or Life Science  
15 - Total Credits

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### **Total Hours 120**

**Notes:** A grade of C or higher is required for those classes used as prerequisites 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).

**Transfer Students:** 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. Visit the [transfer credit website](#) to find course equivalency guides.

# Biological Sciences

## Admission Requirements

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 GPA of 2.0 in completed science and mathematics courses, as well as a cumulative GPA of 2.0 or higher in all courses taken at SIUE. Transfer students should have a 2.0 GPA in science and mathematics courses taken at other colleges and universities.

### 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](#). Please visit the [Transfer website](#) for additional information.

## Degree Requirements

### Core Requirements

- BIOL 150
- BIOL 151
- BIOL 220

### Chemistry Requirements

- CHEM 121 A,B

- CHEM 125 A,B
- CHEM 241 A,B\*
- CHEM 245\*  
(\*CHEM 241B and 245 exempt for Professional Education Licensure)

### Complete one of the following specializations:

#### Ecology, Evolution and Environment

- BIOL 327
- BIOL 365
- BIOL 492
- BIOL 492M or 497

#### Biology, Ecology, Evolution and Environment (EEE) Electives (12-14 hours)

- BIOL 321, 371, 422A, 423, 427, 428, 434, 435, 436, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 480, 483, 485, 486, 487, 488, 489

Two 400-level courses required. Three courses must have labs, among which must be at least one field course and at least one diversity course.

#### One course from Genetics and Cellular Biology (GCB) Electives

- BIOL 319, 335, 337, 350, 416, 418A, 421, 422A, 425, 431, 432, 436, 451, 452, 455A, 475

#### Mathematics/Physics Requirements

- MATH 145 or 150
- STAT 244
- PHYS 111 or (PHYS 131/131L and PHYS 132/132L) or (PHYS 151/151L and PHYS 152/152L)

Electives (8-14 hours)

#### Genetics and Cellular Biology

- BIOL 319
- BIOL 492
- BIOL 492M or 497
- CHEM 351, 352

#### Biology Genetics and Cellular Biology (GCB) Electives

- BIOL 355, 337, 350, 416, 418A, 418B, 421, 422A, 425, 431, 432, 436, 451, 452, 455A, 475

Three of the above must be taken, including at least one lab course.

### **Biology GCB 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
- (PHYS 131/131L and PHYS 132/132L) or (PHYS 151/151L and PHYS 152/152L)

Electives (8-10 hours)

### **Integrative**

#### **One course from the Ecology, Evolution and Environment (EEE) area:**

- BIOL 321, 327, 365, 371, 422A, 423, 427, 428, 434, 435, 436, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 480, 483, 485, 486, 487, 488, 489

#### **One course from the Biological Diversity (DIV) area:**

- BIOL 321, 350, 428, 462, 471, 474, 480, 483, 485, 486, 487, 488

#### **One course from the Morphology, Physiology and Development (MPD) area:**

- BIOL 337, 340, 416, 423, 425, 434, 440, 441, 444A, 461, 467, 472, 473, 481, 489

#### **One course from the Genetics and Cellular Biology (GCB) area:**

- BIOL 319, 335, 337, 350, 416, 418A, 418B, 421, 422A, 425, 431, 432, 436, 451, 452, 455A, 475

### **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 and PHYS 132/132L) or (PHYS 151/151L and PHYS 152/152L)
- 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 and PHYS 132/132L) or (PHYS 151/151L and PHYS 152/152L)

Electives (5-7 hours)

### **Medical Technology**

- BIOL 319
- BIOL 335
- BIOL 340
- BIOL 350
- CHEM 351

### **Mathematics/Physics Requirements**

- MATH 125
- STAT 107 or 244
- (PHYS 131/131L and PHYS 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 coursework 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.

### **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 (BIOL 150, 151, 220).
- No more than four 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 biological sciences courses attempted.
- 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 eight 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 (BIOL 150, 151, 220). 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 in all specializations. Students seeking a minor in biological sciences must complete at least nine 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 121A.

### **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:

- GPA of 1.0 or below in any term
- Cumulative GPA of lower than 2.0 in the major at any time
- Any combination of withdrawal, incomplete, and failing grades in 50% 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.

## Degrees Available at SIUE

- Bachelor of Science, Biological Sciences
- 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](#)
- [Professional Educator Licensure \(9-12\) program](#)

## 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 four-year institution
  - A minimum cumulative grade point average of 2.0 (2.5 cumulative GPA is required for Professional Educator Licensure as well as a 2.5 science GPA, no grade lower than a C).
  - 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 (BS/DMD) is available for students interested in attending SIUE 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 SIU School of Dental Medicine in Alton, Ill.

Students interested in the dental program or the combined baccalaureate in biology/doctorate in dentistry (BS/DMD) program should write to:

Office of Admissions and Records

Southern Illinois University School of Dental  
Medicine  
2800 College Avenue  
Alton, IL 62002  
[siue.edu/dental](http://siue.edu/dental)  
618-474-7170

## 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 nine of which must be completed at SIUE, with a GPA 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.

## Sample Curriculum for the Bachelor of Science in Biological Sciences, Ecology, Evolution and Environment

The first two years of biology and chemistry courses are identical for all specializations. Students pursuing a Bachelor of Arts will complete six courses in fine and performing arts or humanities, including one year of the same foreign language.

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### Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (3) MATH 125 Pre-Calculus Mathematics with Trigonometry
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
-



## Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 English Composition II
  - (3) ACS 101 Public Speaking
- 15 - Total Credits
- 

## Year 2 Fall Semester

- (4) **BIOL 220** Genetics
  - (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (4) **STAT 244** Statistics (BICS)
  - (3) Breadth Social Sciences (BSS)
  - (3) RA 101 Reasoning and Argumentation or PHIL 212
- 17 - Total Credits
- 

## Year 2 Spring Semester

- (4) BIOL 365 Ecology (EGC, EL)
  - (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (BPS, EL)
  - (3) QR 101, MATH 145 or MATH 150
  - (3) Breadth Humanities (BHUM)
- 15 - Total Credits
- 

## Year 3 Fall Semester

- (4) BIOE GCB Elective 300-400 level
  - (5) **PHYS 131/131L** College Physics I\*\* or **PHYS 151** University Physics and 151L Lab
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Health Experience (EH)
- 15 - Total Credits
- 

## Year 3 Spring Semester

- (3) BIOL 327 Evolution
  - (3) BIOL EEE 300-400 Level
  - (5) **PHYS 132/PHYS 132L** College Physics or **PHYS 152** University Physics II and 152L Lab\*\*
  - (3) Elective
- 14 - Total Credits
- 

## Year 4 Fall Semester

- (1) BIOL 492 Biological Sci Colloquium I
  - (4) BIOL EEE Elective 400 Level
  - (3) Interdisciplinary Studies (IS)
  - (3) Experience United States Cultures (EUSC)
  - (3) BIOL EEE Elective 400 Level
- 14 - Total Credits
- 

## Year 4 Spring Semester

- (1) BIOL 492M or BIOL 497
  - (4) BIOL EEE Elective 400 Level
  - (4) BIOL Elective 300-400 Level
  - (6) Electives
- 14 - Total Credits
- 

## Total Hours 120

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**Note:** Students may substitute MATH 145/150 and PHYS 111 in place of MATH 125 and PHYS 131/131L and 132/132L

**Transfer Students:** To maximize your transfer experience, complete the **bolded courses**/requirements pre-transfer **AND** satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Science in Biological Sciences, Genetics and Cellular Biology

The first two years of biology and chemistry courses are identical for all specializations. Students pursuing a Bachelor of Arts will complete six courses in fine and performing arts or humanities, including one year of the same foreign language.

---

## Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)
- (4) **CHEM 121A** General Chemistry I (BPS)

- (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (5) **MATH 145** Calculus for Life Sciences (FQR)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 
- 18 - Total Credits

### Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 English Composition II
  - (3) ACS 101 Public Speaking
- 
- 15 - Total Credits

### Year 2 Fall Semester

- (4) **BIOL 220** Genetics (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (3) RA 101 Reasoning & Argumentation
  - (4) STAT 244 Statistics (BICS)
  - (3) Breadth Humanities (BHUM)
- 
- 17 - Total Credits

### Year 2 Spring Semester

- (4) BIOL 319 Cell & Molecular Biology
  - (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Elective
- 
- 15 - Total Credits

### Year 3 Fall Semester

- (4) BIOL Non-GCB Elective
  - (3) CHEM 351 Biochemistry I
  - (5) **PHYS 131/PHYS 131L or PHYS 151, PHYS 151L**
  - (3) Elective
- 
- 15 - Total Credits

### Year 3 Spring Semester

- (3) CHEM 352 Biochemistry II
- (5) **PHYS 132/PHYS 132L or PHYS 152/PHYS 152L**

- (3) Breadth Social Science (BSS)
  - (3) Elective
- 
- 14 - Total Credits

### Year 4 Fall Semester

- (4) BIOL GCB Elective 300 or 400 Level
  - (1) BIOL 492 Biological Sci Colloquium I
  - (3) BIOL GCB Elective 400 Level
  - (3) Interdisciplinary Studies (IS)
  - (2) Health Experience (EH)
- 
- 13 - Total Credits

### Year 4 Spring Semester

- (3) BIOL GCB Elective 400 Level
  - (1) BIOL 492M or BIOL 497
  - (3) Experience Global Culture (EGC)
  - (3) Experience United States Culture (EUSC)
  - (3) Elective
- 
- 13 - Total Credits

### Total Hours 120

**Transfer Students:** To maximize your transfer experience, complete the **bolded courses**/requirements pre-transfer AND satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, As, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Biological Sciences, Integrative Biology

The first two years of biology and chemistry courses are identical for all specializations. Students pursuing a Bachelor of Arts will complete six courses in fine and performing arts or humanities, including one year of the same foreign language.

### Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)

- (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (3) **MATH 125** Pre-Calculus Mathematics with Trigonometry
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

### Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II
  - (3) ENG 102 English Composition II
  - (3) **ACS 101** Public Speaking
- 15 - Total Credits
- 

### Year 2 Fall Semester

- (4) **BIOL 220** Genetics (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (4) **STAT 244** Statistics (BICS)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - (3) QR 101, MATH 145, or MATH 150
- 17 - Total Credits
- 

### Year 2 Spring Semester

- (3-4) BIOL Ecology, Evolution & Behavior Elective
  - (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (3) Health Experience (EH)
  - (3) United States Culture (EUSC)
- 14-15 - Total Credits
- 

### Year 3 Fall Semester

- (4) BIOL Elective
  - (5) **PHYS 131/PHYS 131L** College Physics I\*\* or **PHYS 151** University Physics and **PHYS 151L** Lab
  - (3) Breadth Social Science (BSS)
  - (3) Breadth Fine & Performing Arts (BFPA)
- 15 - Total Credits
- 

### Year 3 Spring Semester

- (3-4) BIOL Biological Diversity Elective
  - (3-4) BIOL Morphology, Physiology & Development Elective
  - (5) **PHYS 132/PHYS 132L** College Physics II\*\* or **PHYS 152** University Physics II and **PHYS 152L** Lab
  - (3) Breadth Humanities (BHUM)
- 14-16 - Total Credits
- 

### Year 4 Fall Semester

- (1) BIOL 492
  - (3) BIOL Elective 400 Level
  - (3-4) BIOL Cellular & Molecular Biology Elective
  - (3) Interdisciplinary Studies (IS)
  - (3) Global Cultures (EGC)
  - (3) Elective
- 16-17 - Total Credits
- 

### Year 4 Spring Semester

- (1) BIOL 492M or BIOL 497
  - (3) BIOL Elective 400 Level
  - (3) BIOL Elective
  - (3) Elective
  - (3) Elective
- 13
- 

### Total Hours 120

\*Students pursuing a Bachelor of Arts will need to complete six 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.

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed.

Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Biological Sciences, Medical Science

The first two years of biology and chemistry courses are identical for all specializations. Students pursuing a Bachelor of Arts will complete six courses in fine and performing arts or humanities, including one year of the same foreign language.

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#### Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (5) **MATH 145** Calculus for Life Sciences (FQR)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 18 - Total Credits
- 

#### Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 121B** General Chemistry Lab II (EL)
  - (3) ENG 102 English Composition II
  - (3) ACS 101 Public Speaking
  - 15 - Total Credits
- 

#### Year 2 Fall Semester

- (4) **BIOL 220** Genetics
  - (3) **CHEM 241A** Organic Chemistry I (EL)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - (4) **STAT 244** Statistics (BICS)
  - (3) Breadth Humanities (BHUM)
  - 17 - Total Credits
- 

#### Year 2 Spring Semester

- (4) BIOL 319 Cell & Molecular Biology
  - (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (5) **PHYS 131/PHYS 131L or PHYS 151, PHYS 151L**
  - 14 - Total Credits
- 

#### Year 3 Fall Semester

- (5) **PHYS 132/PHYS 132L or PHYS 152, PHYS 152L**
  - (3) Breadth Social Science (BSS)
  - (3) BIOL Elective
  - (3) Breadth Fine & Performing Arts (BFPA)
  - 14 - Total Credits
- 

#### Year 3 Spring Semester

- (4) BIOL 340 Physiology
  - (3-4) BIOL Elective (300-400 Level)
  - (3) Elective
  - (3) Experience Global Cultures (EGC)
  - (3) Health Experience (EH)
  - 16-17 - Total Credits
- 

#### Year 4 Fall Semester

- (1) BIOL 492
  - (4) BIOL Elective (400 Level)
  - (3) CHEM 351 Biochemistry I
  - (3) Interdisciplinary Studies (IS)
  - (1) Elective
  - 13 - Total Credits
- 

#### Year 4 Spring Semester

- (2) BIOL 492M or BIOL 497
  - (3) CHEM 352 Biochemistry II
  - (3) Experience United States Cultures (EUSC)
  - (3-4) BIOL Elective (300-400 Level)
  - (3) Elective
  - 14-15 - Total Credits
- 

#### Total Hours 120

Students pursuing a Bachelor of Arts will need to complete six additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation

Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Biological Sciences, Medical Technology

The first two years of biology and chemistry courses are identical for all specializations. Students pursuing a Bachelor of Arts will complete six courses in fine and performing arts or humanities, including one year of the same foreign language.

---

#### Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (3) **MATH 125** Pre-Calculus Mathematics with Trigonometry
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

#### Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 English Composition II
  - (3) ACS 101 Public Speaking
- 15 - Total Credits
- 

#### Year 2 Fall Semester

- (4) **BIOL 220** Genetics
  - (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - (3) QR 101, MATH 145, or MATH 150
  - (3-4) **STAT 107** Concepts of Stats/**STATS 244** Statistics (BICS)
- 16-17 - Total Credits
- 

#### Year 2 Spring Semester

- (4) BIOL 319 Cell & Molecular Biology
  - (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (3) Breadth Social Science (BSS)/Experience Global Culture (EGC)
  - (5) **PHYS 131/PHYS 131L** College Physics I
- 17 - Total Credits
- 

#### Year 3 Fall Semester

- (4) BIOL 350 Microbiology
  - (3) CHEM 351 Biochemistry
  - (5) **PHYS 132/PHYS 132L** College Physics II
  - (3) Breadth Fine & Performing Arts (BFPA)
- 15 - Total Credits
- 

#### Year 3 Spring Semester

- (4) BIOL 340 Physiology
  - (3) BIOL 335 Introduction to Immunology
  - (3) Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)
  - (2) Health Experience (EH)
  - (3) Interdisciplinary Studies (IS)
- 15 - Total Credits
- 

#### Year 4 Fall Semester

- (18) Hospital Clinical Education
- 18 - Total Credits
- 

#### Year 4 Spring Semester

- (18) Hospital Clinical Education
- 18 - Total Credits
- 

#### Total Hours 130-131

Students pursuing a Bachelor of Arts will need to complete six additional courses in Fine and Performing Arts or Humanities, including one year of the same foreign language.

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**Transfer Students:** To maximize your transfer experience, complete

the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### 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 (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 any student desiring teacher licensure meet with an advisor in the [SEHHB Student Services](#) for information about admission requirements to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All science courses (biology, chemistry, physics) must be at a GPA of 2.5 or higher in order to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB section of the undergraduate academic catalog](#), or by making an appointment with an SEHHB advisor.

### Sample Curriculum for the Bachelor of Science in Biological Sciences Professional Educator Licensure (9-12) Option

Students pursuing a Bachelor of Arts will complete

six courses in fine and performing arts or humanities, including one year of the same foreign language.

---

#### Year 1 Fall Semester

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - (1) FST 101 Succeeding & Engaging at SIUE
- 19 - Total Credits
- 

#### Year 1 Spring Semester

- (4) **BIOL 151** Biology II (BLS, EL)
  - (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 English Composition II
  - (5) MATH 145 Calculus for the Life Sciences (meets QR 101)
- 17 - Total Credits
- 

#### Year 2 Fall Semester

- (4) BIOL 220 Genetics (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (3) **GEOG 210** Physical Geography (BPS)
  - (0) Health Experience (EH)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Social Science/United States Cultures (BSS/EUSC)
- 16 - Total Credits
- 

#### Year 2 Spring Semester

- (3-4) BIOL CM Elective (BIOL 319, BIOL 337, BIOL 415, BIOL 416, BIOL455)
  - (4) BIOL 417 Quant Methods in Experimental Biology (Recommended) or STAT 244
  - (3) BIOL 327 Evolution
  - (4) BIOL 400-Level Elective with lab (EL)
  - (3) Breadth Humanities/United States Cultures (BHUM/EUSC)
- 17-18 - Total Credits

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### Year 3 Fall Semester

- (4) BIOL 365 Ecology (EGC)
  - (5) **PHYS 131/PHYS 131L** College Physics I or  
**PHYS 151/PHYS 151L** University Physics  
(BPS/EL)
  - (3) CIED 312 Language and Communication (BICS)
  - (1) CIED 302 Field Experience II
  - (3) CIED 310 Planning for Diverse Learners
  - (3) IT 300 Digital Learning and Communication
- 19 - Total Credits
- 

### Year 3 Spring Semester

- (1) CIED 303 Field Experience III
  - (3) CIED 323 Adolescent Content Literacy
  - (3) SPE 400 The Exceptional Child
  - (4) BIOL AP Elective (BIOL 340, BIOL 360, BIOL 467, BIOL 489 or BIOL 240A & BIOL 240B)
  - (5) **PHYS 132/PHYS 132L** College Physics II or  
**PHYS 152/PHYS 152L** University Physics  
(BPS/EL)
  - (3) Interdisciplinary Studies/Global Cultures  
(IS/EGC)
- 19 - Total Credits
- 

### Year 4 Fall Semester

- 
- (1) BIOL 492 Senior Colloquium
  - (3) BIOL 494 Methods of Teaching Biology
  - (3) CIED 313 Introduction to Assessment
  - (3) CIED 314 Learning Environments
  - (3) CIED 311 Differentiated Instruction
  - (1) CIED 304 Field Experience IV
- 14 - Total Credits
- 

### Year 4 Spring Semester

- (10) CIED 455B 9-12 Student Teaching - Biology
  - (2) CIED 456 9-12 Senior Seminar
  - (1) BIOL 497 Senior Assignment
- 13 - Total Credits
- 

### Total Hours 134-135

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Business Administration

## Admission Requirements

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, 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 website](#), 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 nine prerequisite courses completed by the end of the preceding spring semester. Students who apply for fall admission must have all nine prerequisite courses completed by the end of the preceding summer term. Students who apply for spring admission must have all nine 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 GPA of 2.25 on a 4.0 scale
- Minimum cumulative GPA 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 GPA.



## 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 business administration major if they have also earned at least a 2.25 or higher cumulative GPA.

## Degree Requirements

### Lincoln Program General Education Requirements

\* Courses that require a grade of C or higher.

#### First Semester Transition

- FST 101

#### 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)
- Breadth Life Sciences (BLS) Course
- CMIS 108\* (meets Breadth Information and Communication in Society (BICS) Course, major requirement)

#### Experiences Requirements

- 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 at SIUE, students must have a total of at least eight courses in the sciences (life, physical or social), including, as part of those eight courses, two 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\*, 210\*, CMIS 108\*, 342, ECON 111\*, 112\*, ENG 102\*, FIN 320, GBA 301, 402, MATH 120\*^, MGMT 330, 331, 441\*, MS 250\*^, 251\*, MKTG 300, PROD 315, IS 401, 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

## Computer Information Systems

(Nine courses required)

2.5 GPA in all CMIS courses required.

Students who plan to seek future employment with companies using systems based on COBOL are also urged to take CMIS 260.

- CMIS 130
- CMIS 232 or 234
- CMIS 270\*, 310, 450, 470
- Three CMIS Electives
- CMIS Electives will be chosen from the offerings of the CMIS department within one of the following focus areas:
  - Students interested in the **development** track should choose from CMIS 232 or 234^, 260, 300, 430, 435, 488.
  - Students interested in the **information security** track should choose from CMIS 468, 422, 424, 488.
  - Students interested in the **infrastructure and administration** track should choose from CMIS 468, 462, 472, 488.
  - Students interested in the **business analysis** track should choose from CMIS 455, 495 (project management topic), 495 (business process and IS topic), 488
- Students are required to take either CMIS 232 or 234 for the specialization. The other course can be taken as a CMIS elective.

## Economics

(Nine courses required; 2.25 GPA in all economics courses required)

- ECON 301, 302, 315

- Six ECON Electives
- At least four of the six economics electives must be at the 400 level
- Students may choose from the following ECON electives: ECON 321, 327, 331, 341, 343, 345, 350, 361, 411, 415, 416, 417, 428, 429, 431, 435, 439, 445, 461.
- Students may substitute one of the following finance courses for an economics elective: FIN 344, 420 or 450.

## Entrepreneurship

(Four courses required)

- MGMT 430
- MGMT 475
- MGMT 476

Plus one of the following:

- MGMT 431, 432, 433, 451, 461, 485

## Finance

(Nine courses required; C or higher required in FIN 320)

- FIN 344, 420, 421, 430\*, 431, 440
- Three FIN Electives
- Finance electives should be chosen from 300- and 400-level finance courses within one of the following lists:
  - Students interested in the **financial analysis** track should choose from FIN 432, 435, 436, 445, 451, 460.
  - Students interested in the **applications of finance** track should choose from the following: FIN 305, 306, 360, 361, 435, 436, 450.

## 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. Students should create their plan in consultation with their academic advisor.

## Human Resource Management

(Five courses required)

- MGMT 430
- MGMT 431
- MGMT 432
- MGMT 433

Plus one of the following:

- MGMT 451, 485, ECON 331, PSYC 320, 473, SOC 304, 338, 431, 444, ACS 300, 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 three 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

### **Marketing**

(Five courses required)

- MKTG 377 \*
- MKTG 480

Plus three of the following:

- MKTG 466, 467, 468, 470, 471, 472, 474, 475, 476, 478, 479

### **Retention**

Once declared into the business administration program, students must achieve and maintain at least a 2.25 cumulative GPA. Students who fail to maintain at least a 2.25 cumulative GPA at SIUE will be placed on program probation. Students will be notified when they are not meeting the cumulative GPA retention standard and will be informed of the timeframe allowed to improve their GPA. 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.

### **Degrees Available at SIUE**

- Bachelor of Science, Business Administration (specializations available in the following)
  - [Computer Information Systems](#)
  - [Economics](#)
  - [Entrepreneurship](#)
  - [Finance](#)
  - [Human Resource Management](#)
  - [International Business](#)
  - [Management](#)
  - [Marketing](#)

### **Graduation Requirements**

- Cumulative SIUE GPA required: 2.25
- Business GPA 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 GPA requirements apply as listed in the [Degree Requirements](#) section.

## Business Administration Minor for Non-Business Majors

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Students who have declared their major in a non-business field may earn a minor in business administration. Students majoring in accountancy or business administration are not allowed to minor in business administration. To declare a minor in business administration, students must have a cumulative GPA 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 coursework 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 and finance, and management and 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 coursework used for the minor.

## Sample Curriculum for the Bachelor of Science in Business Administration

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### Year 1 (Fall Semester)

- (3) **CMIS 108** or **CS 108** Computer Concepts (BICS)\*
  - (3) **ECON 112** Microeconomics\*
  - (3) **ENG 101** English Composition I\*
  - (3) **MATH 120** College Algebra\*<sup>^</sup> (BPS)
  - (3) **ACS 101** Public Speaking\*
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **ECON 111** Macroeconomics\* (BSS)
  - (3) **ENG 102** English Composition II\*
  - (3) **MS 250** Mathematical Methods\*<sup>^</sup>
  - (3) RA 101 or PHIL 212
  - (3) Breadth Life Science (BLS)
  - 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **ACCT 200** Fundamentals of Financial Accounting\*
  - (3) Breadth Humanities (BHUM)
  - (3) Elective
  - (3) Quantitative Reasoning 101, MATH 150 or Higher
  - (3) Experience U.S. Cultures Course (EUSC)
  - 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) **MS 251** Statistical Analysis for Business Decisions\* (EL)
  - (3) Elective
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Life (LS), Physical (PS) or Social Science (SS)
  - (2) Health Experience (EH)
  - 15 - Total Credits
-

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### Year 3 (Fall Semester)

- (3) **ACCT 210** Managerial Accounting\*
  - (3) MGMT 330 Understanding the Business Environment
  - (3) MKTG 300 Principles of Marketing
  - (3) Life (LS), Physical (PS) or Social Science (SS) (EL)
  - (1) GBA 301 Business Transitions I
  - (3) MGMT 331 Managing Group Projects
- 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CMIS 342 Info Systems for Business
  - (3) FIN 320 Financial Management
  - (3) Approved 300/400-level Business course
  - (3) Elective
- 12 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) IS 401 Business & Society (EGC)
  - (3) PROD 315 Operations Management
  - (3) Approved 300/400-level Business course
  - (3) Elective
  - (3) Elective
- 15 - Total Credits

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### Year 4 (Spring Semester)

- (3) MGMT 441 Strategic Management\*
  - (3) Approved 300/400-level Business course
  - (3) Approved 300/400-level Business course
  - (3) Elective
  - (3) Elective
  - (1) GBA 402 Business Transitions II
- 16 - Total Credits
- 

**Notes:** Admission to the School of Business is required to enroll in 300- or 400-level business courses.

\*C or higher required

^Students may substitute MATH 150 (with a grade of C or better) for MATH 120 and MS 250

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**Transfer Students:** 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. Visit the [transfer credit website](#) to find course equivalency guides.

# Chemistry

## Admission Requirements

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 Department of Chemistry 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 GPA of 2.4 in science and mathematics courses completed, and a cumulative GPA 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 GPA 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.

## 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](#). Please visit the [Transfer website](#) for additional information.

## Degree Requirements

### General Education Requirements

General education requires a minimum of 36 hours of credit and includes completion of five 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.

### Major requirements in all degrees

#### Chemistry

- CHEM 121A,B
- CHEM 125A,B
- CHEM 241A,B
- CHEM 245, 300, 331, 335

#### Mathematics

- MATH 150\*

\*Either MATH 145 or MATH 150 is required for the Bachelor of Science in Chemistry and the 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 requirements section.

### General Chemistry Requirements

#### Bachelor of Science

#### Chemistry Requirements

- CHEM 361A,B
- CHEM 365A,B

- CHEM 411
- CHEM 499

An additional six semester hours from the following:

- CHEM 410, 419, 431, 432, 439, 441, 444, 445, 446, 449
- CHEM 451A
- CHEM 451B
- CHEM 451C
- CHEM 459
- CHEM 461A
- CHEM 461B
- CHEM 469, 471, 479

An additional three semester hours from the following:

- CHEM 345, 396, 415, 435, 455, 465, 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 nine semester hours from the following:

- CHEM 361B
- CHEM 410, 411, 419, 431, 432, 439, 441, 444, 445, 446, 449
- CHEM 451A, 451B, 451C
- CHEM 461A, 461B
- CHEM 469, 471, 479

An additional three semester hours from the following:

- CHEM 345, 365B, 396, 415, 435, 455, 465, 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 do not count as supporting courses.

### American Chemical Society (ACS) Certified Biochemistry Specialization (BS)

### Chemistry requirements

- CHEM 361A,B
- CHEM 365A,B
- CHEM 396, 411, 415, 431, 435
- CHEM 451A,B,C
- CHEM 455, 496, 499

### Biology requirements

- BIOL 150, 151, 220, 319

### Math requirements

- MATH 152

### Physics requirements

- PHYS 151
- PHYS 151L
- PHYS 152
- PHYS 152L

## **American Chemical Society (ACS) Certified Chemistry Specialization (BS)**

### **Chemistry Requirements**

- CHEM 361A,B
- CHEM 365A,B
- CHEM 411, 415, 431, 435
- CHEM 451A
- CHEM 499

An additional three semester hours from the following:

- CHEM 410, 419, 431, 432, 439, 441, 444, 445, 446, 449, 451A, 451B, 451C, 459, 461A, 461B, 469, 471, 479

An additional two semester hours from the following:

- CHEM 345, 396, 455, 465, 496

### **Math requirements**

- MATH 152

### **Physics requirements**

- PHYS 151
- PHYS 151L
- PHYS 152
- PHYS 152L

## **Biochemistry Specialization (BS)**

### **Chemistry Requirements**

- CHEM 410, 431, 435
- CHEM 451A,B,C
- CHEM 455
- CHEM 461A,B
- CHEM 465
- CHEM 499

An additional four semester hours from the following

- CHEM 396, 432, 446, 449, 459, 471, 479, 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 (BS)**

### **Chemistry Requirements**

- CHEM 361A,B
- CHEM 365A,B
- CHEM 451A
- CHEM 431, 432, 435, 446, 471, 499

### **Biology requirements**

- BIOL 150
- BIOL 151
- BIOL 220
- BIOL 319
- BIOL 423

### **Environmental Sciences requirements**

- ENSC 428
- ENSC 428L

An additional three 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 (BA)**

### **Chemistry Requirements**



- CHEM 361A
- CHEM 365A
- CHEM 451A,B
- CHEM 499

An additional three semester hours from the following:

- CHEM 361B, 410, 419, 431, 432, 439, 441, 444, 445, 446, 449, 451A, 451B, 451C, 459, 461A, 461B, 469, 471, 479

An additional three semester hours from the following:

- CHEM 345, 365B, 396, 415, 435, 455, 496

### **Biology Requirements**

- Biology 150

Additional six 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

### **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 five 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.

### **Combined Bachelor in Chemistry and Doctor of Dental Medicine Program (3+4)**

A combined arts and sciences dental curriculum that leads to a bachelor's degree in chemistry and Doctor of Dental Medicine (BA or BS/DMD) is available for students interested in attending SIUE 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, Ill. Students interested in the dental program or the combined baccalaureate in chemistry/doctorate in dentistry program should contact:

Office of Admissions and Records  
Southern Illinois University School of Dental Medicine  
2800 College Avenue, Alton, IL 62002  
[siue.edu/dental](http://siue.edu/dental)  
Phone: 618-474- 7170

### **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:

- GPA of 1.0 or below in any term
- Cumulative GPA of less than 2.0 in the major at any time
- Withdrawal, incomplete, and a combination of failing grades in 50% 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.

### Degrees Available at SIUE

- Bachelor of Science, Chemistry (specializations available in the following)
  - [ACS Certified Biochemistry](#)
  - [ACS Certified Chemistry](#)
  - [Biochemistry](#)
  - [Forensics Chemistry](#)
- [Professional Educator Licensure \(9-12\)](#) program
- Bachelor of Arts, Chemistry (specialization available in the following)
  - [Medical Science](#)

### 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 Licensure) of acceptable credit with a cumulative GPA of 2.0 or higher
- Complete at least 12 hours of SIUE credit in major courses numbered above 299 with a cumulative GPA of 2.0 or above
- Earn a GPA of 2.0 or above in all major courses numbered above 299
- Complete at least six hours of SIUE credit in major courses numbered above 299 within two 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.

### 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.

### Sample Curriculum for the Bachelor of Arts in Chemistry

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#### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 Composition I
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - 16 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (3-4) **CS 140 or STAT 107, STAT 244, STAT 380 or STAT 480**
  - (5) **PHYS 151/PHYS 151L** University Physics I or **PHYS 131/PHYS 131L** College Physics I (BPS, EL)
  - (3) Breadth Fine & Performing Arts or Breadth Humanities (BFPA)
  - 14-15 - Total Credits
-

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### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (5) **PHYS 152/PHYS 152L** University Physics II or **PHYS 132/PHYS 132L** College Physics II (BPS, EL)
  - (2) Health Experience (EH)
  - (2-3) Minor/Elective
  - 14-15 - Total Credits
- 

### Year 3 (Fall Semester)

- (1) CHEM 300 Professionalism in Science
  - (3) CHEM 331 Quant. Analytical Chemistry
  - (1) CHEM 335 Quant. Analytical Chem Lab
  - (3) CHEM 361A Physical Chemistry
  - (2) CHEM 365A Physical Chemistry Lab
  - (4) Foreign Language 101 (BICS)
  - 14 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CHEM Elective
  - (4) Foreign Language 102 (EGC)
  - (3) Interdisciplinary Studies (IS)
  - (3) Fine & Performing Arts or Humanities
  - (3) Fine & Performing Arts or Humanities
  - 16 - Total Credits
- 

### Year 4 (Fall Semester)

- (0) CHEM 499 Senior Assignment
  - (3) CHEM Elective
  - (3) Breadth Life Science (BLS)
  - (3) Fine & Performing Arts or Humanities
  - (3) Breadth Humanities (BHUM)
  - (2) Minor/Elective
  - 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) CHEM Elective
- (2) CHEM Elective
- (3) Breadth Social Science (BSS)
- (3) Fine & Performing Arts or Humanities
- (3) Experience United States Cultures (EUSC)
- 14 - Total Credits

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Total Hours 120

## Sample Curriculum for the Bachelor of Science in Chemistry

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### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 Composition I
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
  - 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry
  - (1) CHEM 331 Quant. Analytical Chemistry
  - (3) CHEM 335 Quant. Analytical Chem Lab
  - (4) **PHYS 151** University Physics (BPS)
  - (1) **PHYS 151L** University Physics Lab (EL)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (3-4) **STAT 107, STAT 244,** or STAT 380 (BICS)
  - (4) **PHYS 152** University Physics (BPS)
  - (1) **PHYS 152L** University Physics Lab (EL)
  - (3) Breadth Life Science (BLS)
  - 16-17 - Total Credits
-

### Year 3 (Fall Semester)

- (1) CHEM 300 Professionalism in Science
  - (3) CHEM 361A Physical Chemistry
  - (2) CHEM 365A Physical Chemistry Lab
  - (3) Breadth Humanities (BHUM)
  - (3) Experience United States Cultures (EUSC)
  - (3) Elective
- 15 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CHEM 361B Physical Chemistry
  - (1) CHEM 365B Physical Chemistry Lab
  - (3) CHEM Elective
  - (3) Breadth Social Science (BSS)/Experience Global Culture (EGC)
  - (2) Health Experience (EH)
  - (3) Elective
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CHEM 411 Inorganic Chemistry
  - (3) CHEM Elective
  - (3) Interdisciplinary Studies (IS)
  - (3) Elective
  - (2) Elective
- 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (0) CHEM 499 Senior Assignment
  - (3) CHEM Elective
  - (3) Elective
  - (3) Elective
  - (3) Elective
- 12 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree

from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Degree Requirements

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### General Education Requirements

General education requires a minimum of 36 hours of credit and includes completion of five 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.

### Major requirements in all degrees

#### Chemistry

- CHEM 121A,B
- CHEM 125A,B
- CHEM 241A,B
- CHEM 245, 300, 331, 335

#### Mathematics

- MATH 150\*

\*Either MATH 145 or MATH 150 is required for the Bachelor of Science in chemistry and the 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 requirements section.

## American Chemical Society (ACS) Certified Biochemistry Specialization (BS)

### Chemistry requirements

- CHEM 361A,B
- CHEM 365 A,B
- CHEM 396, 411, 415, 431, 435
- CHEM 451A,B,C
- CHEM 455, 496, 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

## 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:

- GPA of 1.0 or below in any term
- Cumulative GPA of less than 2.0 in the major at any time
- Withdrawal, incomplete, and a combination of failing grades in 50% 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.

## Sample Curriculum for the Bachelor of Science in Chemistry, ACS Certified Biochemistry

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### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 Composition I
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) RA 101 Reasoning & Argumentation or PHIL 212
- 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry I (BPS)
  - (3) CHEM 331 Quant Analytical Chemistry
  - (1) CHEM 335 Quant Analytical Chemistry Lab
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics Lab I (EL)
  - (4) **BIOL 150** Intro to Biological Sciences I (BLS, EL)
- 16 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry II (BPS)
- (2) **CHEM 245** Organic Chemistry Lab (EL)
- (4) **PHYS 152** University Physics II (BPS)
- (1) **PHYS 152L** University Physics Lab II (EL)

(4) **BIOL 151** Intro to Biological Sciences II (BLS, EL)  
14 - Total Credits

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### Year 3 (Fall Semester)

(1) CHEM 300 Professionalism in Science  
(3) CHEM 361A Physical Chemistry  
(2) CHEM 365A Physical Chemistry Lab  
(3) CHEM 451A Biochemistry  
(4) BIOL 319 Cell & Molecular Biology  
(3) Breadth Fine & Performing Arts (BFPA)  
16 - Total Credits

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### Year 3 (Spring Semester)

(3) CHEM 361B Physical Chemistry  
(1) CHEM 365B Physical Chemistry Lab  
(2) CHEM 396 Introduction to Research  
(3) CHEM 451B Biochemistry  
(2) CHEM 455 Experimental Methods in Biochemistry  
(4) BIOL 220 Genetics (BLS, EL)  
(3) Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)  
18 - Total Credits

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### Year 4 (Fall Semester)

(3) CHEM 411 Inorganic Chemistry  
(2) CHEM 415 Inorganic Chemistry Lab  
(3) CHEM 451C Biochemistry  
(2) CHEM 496 Chemical Problems  
(3-4) **STAT 244** or STAT 380 (BICS)  
13-14 - Total Credits

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### Year 4 (Spring Semester)

(3) CHEM 431 Instrumental Analysis  
(1) CHEM 435 Instrumental Analysis Lab  
(0) CHEM 499 Senior Assignment  
(2) Health Experience (EH)  
(3) Interdisciplinary Studies (IS)  
(3) Breadth Social Science (BSS)/Experience Global Cultures (EGC)  
12 - Total Credits

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## Total Hours 122

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Science in Chemistry, ACS Certified Chemistry

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### Year 1 (Fall Semester)

(4) **CHEM 121A** General Chemistry (BPS)  
(1) **CHEM 125A** General Chemistry Lab (EL)  
(3) ENG 101 Composition  
(5) **MATH 150** Calculus I (FQR)  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

---

### Year 1 (Spring Semester)

(4) **CHEM 121B** General Chemistry (BPS)  
(1) **CHEM 125B** General Chemistry Lab (EL)  
(3) ENG 102 Composition  
(5) **MATH 152** Calculus II (BPS)  
(3) RA 101 Reasoning & Argumentation or PHIL 212  
16 - Total Credits

---

### Year 2 (Fall Semester)

(3) CHEM 331 Quantitative Analytical Chemistry  
(1) CHEM 335 Quantitative Analytical Chem Lab  
(3) **CHEM 241A** Organic Chemistry  
(4) **PHYS 151** University Physics (BPS)  
(1) **PHYS 151L** University Physics Lab (EL)  
(3) Breadth Fine & Performing Arts (BFPA)  
15 - Total Credits

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### Year 2 (Spring Semester)

(3) **CHEM 241B** Organic Chemistry (BPS)

- (2) **CHEM 245** Organic Chemistry Lab (EL)  
(3-4) **STAT 107, STAT 244**, or STAT 380 (BICS)  
(4) **PHYS 152** University Physics (BPS)  
(1) **PHYS 152L** University Physics Lab (EL)  
(3) Breadth Life Science (BLS)  
16-17 - Total Credits
- 

### Year 3 (Fall Semester)

- (1) CHEM 300 Professionalism in Science  
(3) CHEM 361A Physical Chemistry  
(2) CHEM 365A Physical Chemistry Lab  
(3) CHEM 451A Biochemistry  
(3) Breadth Humanities (BHUM)  
(3) Interdisciplinary Studies (IS)  
15 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CHEM 361B Physical Chemistry  
(1) CHEM 365B Physical Chemistry Lab  
(3) CHEM Elective  
(3) Breadth Social Science (BSS)/Experience Global Culture (EGC)  
(3) Experience United States Culture (EUSC)  
13 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CHEM 411 Inorganic Chemistry  
(2) CHEM 415 Inorganic Chemistry Lab  
(3) Elective  
(3) Elective  
(3) Elective  
14 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) CHEM 431 Instrumental Analysis  
(1) CHEM 435 Instrumental Analysis Lab  
(0) CHEM 499 Senior Assignment  
(2) CHEM Elective  
(2) Health Experience (EH)  
(3) Elective  
(3) Elective  
14 - Total Credits
- 

## Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Degree Requirements

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### 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.

### 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 requirements section.

## 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

## 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.

### Sample Curriculum for the Bachelor of Science in Chemistry, Biochemistry

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#### Year 1 (Fall Semester)

(4) **CHEM 121A** General Chemistry (BPS)

(1) **CHEM 125A** General Chemistry Lab (EL)

(3) ENG 101 Composition

(3) RA 101 Reasoning and Argumentation

(3) ACS 101 Public Speaking

(1) FST 101 Succeeding & Engaging at SIUE

15 - Total Credits

---



### Year 1 (Spring Semester)

- (4) **BIOL 150** Intro to Biological Sciences I (BLS, EL)
  - (4) **CHEM 121B** General Chemistry (BPS)
  - (1) **CHEM 125B** General Chemistry Lab (EL)
  - (3) ENG 102 Composition
  - (5) **MATH 145 or 150** Mathematics Requirement
- 17 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) **BIOL 151** Intro to Biological Sciences II (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry
  - (4) **PHYS 131** College Physics I: Mechanics & Heat
  - (1) **PHYS 131L** College Physics I Lab
  - (3) Breadth Social Sciences (BSS)/Experience Global Culture (EGC)
- 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (3) Health Experience (EH)
  - (4) **PHYS 132** College Phys II: Electricity, Magnetism & Optics
  - (1) **PHYS 132L** College Physics II Lab
  - (3) Experience United States Cultures (EUSC)
- 16 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) **BIOL 220** Genetics (BLS, EL)

- (1) CHEM 300 Professionalism
  - (3) CHEM 331 Quant Analytical Chemistry
  - (1) CHEM 335 QUANT Analytical Chemistry Lab
  - (3) CHEM 451A Biochemistry
  - (3) Interdisciplinary Studies (IS)
- 15 - Total Credits
- 

### Year 3 (Spring Semester)

- (4) BIOL 319 Cell & Molecular Biology
  - (3) CHEM 451B Biochemistry
  - (2) CHEM 455 Biochemistry Lab
  - (4) **STAT 244** Statistics (BICS)
  - (3) Breadth Fine & Performing Arts Breadth (BFPA)
- 16 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CHEM 410 Bio-Inorganic Chemistry
  - (3) CHEM 451C Biochemistry
  - (3) CHEM 461A BioPhysical Chemistry
  - (2) CHEM 465 BioPhysical Chemistry Lab
  - (3) CHEM Elective
- 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) CHEM 461B BioPhysical Chemistry II
- (3) CHEM 431 Instrumental Analysis
- (1) CHEM 435 Instrumental Analysis Lab
- (0) CHEM 499 Senior Assignment

(2) CHEM Elective

(3) Breadth Humanities (BHUM)

12 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Chemistry, Forensics Chemistry

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#### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry I (BPS)
  - (1) **CHEM 125A** General Chemistry Lab I (EL)
  - (3) ENG 101 Composition I
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry II (BPS)
  - (1) **CHEM 125B** General Chemistry Lab II (EL)
  - (3) ENG 102 Composition II
  - (5) **MATH 152** Calculus II
  - (4) **BIOL 150** Intro to Biological Science I (BLS)
- 17 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry I (BPS)
- (3) CHEM 331 Quant Analysis Chemistry
- (1) CHEM 335 Quant Analysis Chem Lab
- (4) **PHYS 151** University Physics I (BPS)

- (1) **PHYS 151L** University Physics Lab I (EL)
  - (4) **BIOL 151** Intro to Biological Science II (BLS, EL)
  - (3) RA 101 Reasoning & Argumentation
- 19 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry II (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (4) **PHYS 152** University Physics II (BPS)
  - (1) **PHYS 152L** University Physics Lab II (EL)
  - (4) **BIOL 220** Genetics
- 14 - Total Credits
- 

#### Year 3 (Fall Semester)

- (1) CHEM 300 Professionalism in Science
  - (3) CHEM 361A Physical Chemistry
  - (2) CHEM 365A Physical Chemistry Lab
  - (3) CHEM 451A Biochemistry
  - (4) BIOL 319 Cell & Molecular Biology
- 13 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) CHEM 361B Physical Chemistry
  - (1) CHEM 365B Physical Chemistry Lab
  - (3) BIOL 423 Forensics Biology
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Health Experience (EH)
- 13 - Total Credits
- 

#### Year 4 (Fall Semester)

- (3) CHEM 471 Principles of Toxicology
  - (3) ENSC 428 or CHEM 466
  - (1-3) ENSC 428L, CHEM 410, CHEM 411 or CHEM 451B
  - (3-4) STAT 244 or STAT 380 (BICS)
  - (3) Breadth Social Science (BSS)/Experience United States Culture (EUSC)
- 13-16 - Total Credits
- 

#### Year 4 (Spring Semester)

- (3) CHEM 431 Instrumental Analysis

- (2) CHEM 435 Instrumental Analysis Lab
  - (0) CHEM 499 Senior Assignment
  - (3) CHEM 439 Forensics Chemistry
  - (3) Breadth Humanities (BHUM)/Global Cultures (EGC)
  - (3) Interdisciplinary Studies (IS)
  - 14 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Arts in Chemistry, Medical Science

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#### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry (BPS)
  - (1) **CHEM 125A** General Chemistry Laboratory (EL)
  - (3) ENG 101 Composition
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry (BPS)
  - (1) **CHEM 125B** General Chemistry Laboratory (EL)
  - (3) ENG 102 Composition
  - (5) **MATH 152** Calculus II (BPS)
  - (3) RA 101 Reasoning and Argumentation
  - 16 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry (BPS)
- (5) **PHYS 151** University Physics & **PHYS**

**151L** University Physics Lab or **PHYS 131/PHYS 131L** (BPS, EL)

- (4) **BIOL 150** Intro to Biological Science I (BLS, EL)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3-4) **CS 140** or **STAT 107, STAT 244, STAT 380,** or STAT 480
  - 18 - 19 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (5) **PHYS 152** University Physics & **PHYS 152L** University Physics Lab or **PHYS 132/PHYS 132L** (BPS, EL)
  - (3) Breadth Social Science (BSS)
  - (3) Fine & Performing Arts or Humanities
  - 16 - Total Credits
- 

#### Year 3 (Fall Semester)

- (1) CHEM 300 Professionalism in Science
  - (3) CHEM 331 Quantitative Analytical Chemistry
  - (1) CHEM 335 Analysis Chemistry Laboratory
  - (3) CHEM 361A Physical Chemistry
  - (2) CHEM 365A Physical Chemistry Laboratory
  - (4) Foreign Language 101 (BICS)
  - (1) Health Experience (EH)
  - 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) CHEM Elective+
  - (4) Foreign Language 102 (EGC)
  - (3) Fine & Performing Arts or Humanities
  - (4) **BIOL 151** (BLS, EL) or Approved BIOL Elective
  - 14 - Total Credits
- 

#### Year 4 (Fall Semester)

- (3) CHEM 451A Biochemistry
  - (3) Breadth Humanities (BHUM)/Experience United States Culture (EUSC)
  - (3) **BIOL 220** Genetics or BIOL Elective
  - (3) Interdisciplinary Studies (IS)
  - 12 - Total Credits
-

## Year 4 (Spring Semester)

- (3) CHEM 451B Biochemistry
- (0) CHEM 499 Senior Assignment
- (3) CHEM Elective
- (3) Fine & Performing Arts or Humanities
- (3) Fine & Performing Arts or Humanities
- 12 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, As, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Requirements for Students Seeking Professional Educator Licensure

Admission to professional education courses is a joint decision made by the academic discipline 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 any student desiring teacher licensure meet with an advisor in the [SEHHB Student Services](#) for information about admission requirements to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. **All chemistry courses must be at a GPA of 2.5 or higher in order to student teach.** No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure

(PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB section of this catalog](#), and by making an appointment with an SEHHB advisor.

- BIOL 150, 151
- CHEM 121A,B
- CHEM 125A,B
- CHEM 241A,B
- CHEM 245, 300, 331, 335
- CHEM 361A, 365A, 451A, 494, 499
- MATH 150, 152
- PHYS 151 and 151L\*
- PHYS 152 and 152L\*
- STAT 107, 244, 380 or 480

Additional three semester hours from chemistry courses numbered 300 or above

## Sample Curriculum for the Bachelor of Science in Chemistry Professional Educator Licensure (9-12)

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### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry I (BPS)
- (1) **CHEM 125A** General Chemistry Lab I (EL)
- (3) ENG 101 English Composition I
- (5) **MATH 150** Calculus I (FQR)
- (3) ACS 101 Public Speaking
- (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

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### Year 1 (Spring Semester)

- (4) **CHEM 121B** General Chemistry II (BPS)
- (1) **CHEM 125B** General Chemistry Lab II (EL)
- (4) **BIOL 150** Intro to Biological Science I (BLS, EL)
- (3) ENG 102 English Composition II
- (5) **MATH 152** Calculus II (BPS)
- 17 - Total Credits

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### Year 2 (Fall Semester)

- (3) **CHEM 241A** Organic Chemistry I (BPS)

(3) CHEM 331 Quantitative Analytical Chemistry  
(1) CHEM 335 Analytical Chemistry Lab  
(4) **BIOL 151** Intro to Biological Science II  
(5) **PHYS 151/PHYS 151L** University Physics or  
**PHYS 131/PHYS 131L** College Physics (BPS/EL)  
(3) Breadth Social Science (BSS)  
19 - Total Credits

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### Year 2 (Spring Semester)

(3) **CHEM 241B** Organic Chemistry II (BPS)  
(2) **CHEM 245** Organic Chemistry Lab (EL)  
(5) **PHYS 152/PHYS 152L** University Physics or  
**PHYS 132/PHYS 132L** College Physics (BPS/EL)  
(3) RA 101 Reasoning and Argumentation or PHIL  
212  
(3-4) **STAT 107, STAT 244, STAT 380** or STAT 480  
16-17 - Total Credits

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### Year 3 (Fall Semester)

(1) CHEM 300 Professionalism in Science  
(3) CHEM 361A Physical Chemistry  
(2) CHEM 365A Physical Chemistry Lab  
(1) CIED 302 Field Experience II  
(3) CIED 310 Planning for Diverse Learners (EUSC)  
(3) CIED 312 Language and Communication (BICS)  
(3) IT 300 Digital Learning and Communication  
(BICS)  
(3) Breadth Humanities/Global Cultures (BHUM,  
EGC)  
19 - Total Credits

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### Year 3 (Spring Semester)

(3) CHEM Elective  
(1) CIED 303 Field Experience III  
(3) CIED 323 Adolescent Content Literacy  
(3) SPE 400 The Exceptional Child  
(3) IS 335, IS 336, IS 363, or IS 364 (recommended)  
(3) Breadth Fine & Performing Arts (BFPA)

(0) Health Experience (EH)  
16 - Total Credits

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### Year 4 (Fall Semester)

(3) CHEM 451A Biochemistry  
(3) CHEM 494 Secondary Chemistry Teaching  
Methods  
(0) CHEM 499 Senior Assignment  
(1) CIED 304 Field Experience IV  
(3) CIED 311 Differentiated Instruction  
(3) CIED 313 Introduction to Assessment  
(3) CIED 314 Learning Environments  
16 - Total Credits

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### Year 4 (Spring Semester)

(2) CIED 456 9-12 Senior Seminar  
(10) CIED 455D 9-12 Student Teaching - Chemistry  
12 - Total Credits

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### Total Hours 132-133

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- First aid or other non-coursework option recommended to satisfy Health Experience (EH) requirement.
- GEOG 210-Physical Geography (3) and PHYS 118-Astronomy (3) are strongly recommended.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer **AND** satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Transfer Credit Equivalency Guides are located at [siue.edu/transfer](http://siue.edu/transfer).

# Civil Engineering

## Admission Requirements

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
- Be eligible to enroll in MATH 125 or higher.
- Attain a cumulative GPA of at least 2.0 on a 4.0 scale

## 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.

## Degree Requirements

### 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 106; MATH 150, 152, 250, 305; ME 262; PHYS 141, 151L, 142, 152L; and ACS 101 or 103, with a GPA 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 GPA of at least 2.25 for the above courses is required for other transfer students.

- A grade of C or better is required in all lower division math, science, and engineering courses.

## 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

- CHEM 131, 135
- MATH 150, 152, 250, 305
- PHYS 141, 151L, 142, 152L

Breadth Life Science Course\*

### Engineering Courses

- IE 106
- CE 204, 206\*\*, 240, 242, 315, 330, 330L, 342, 343, 354, 354L, 376, 380, 415L, 461, 493
- CE 416, CE 455, or CE 459
- CS 140 or CS 145
- IE 345
- ME 262
- One Selective Course\*\*\*
- Three CE Electives

### Breadth Fine & Performing Arts Course

### Breadth Humanities Course

- PHIL 323

### Breadth Social Science Course

- ECON 111

### Breadth Information and Communication in Society Course

- STAT 380

## Foundations Courses

- ENG 101
- ENG 102
- ACS 103
- PHIL 323
- MATH 150

## IS Course

\* The life science course must be selected with the approval of the department. A curriculum guide with a list of courses is available online at [siue.edu/engineering/civil-engineering](http://siue.edu/engineering/civil-engineering).

\*\* CNST 264 may be substituted for CE 206

\*\*\*CE SELECTIVE: The CE selective course can include any of the following and should be chosen based on your interests within civil engineering. It is recommended to discuss this selection with a faculty mentor. Prerequisites may apply. (Any 400-level CE course; CNST 403 Planning and Scheduling; CNST 411 Construction Contracts; CNST 415 Land Development; CNST 425 Heavy Civil Construction; CNST 442 Building Information Modeling; CNST 451 Estimating and Bidding; CNST 452 Construction Management; ECE 210 Circuits; ENSC 401 Environmental Policy; ENSC 402 Environmental Law; ENSC 412 Groundwater Hydrology / GEOG 412; ENSC 419 Science, Experts and Public Policy; ENG 491 Technical and Business Writing; GEOG 418 Geographical Information Systems; IE 463 Reliability Engineering / STAT 484 Reliability Engineering; MATH 462 Engineering Numerical Analysis; ME 310 Thermodynamics; ME 452 Vibrations; ME 470 Stress Analysis and Design; STAT 410 Statistical Analysis; or STAT 480a or b Mathematical Statistics)

## 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 GPA of at least 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of at least 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least 2.0 in courses taught in the School of Engineering

- Maintain a cumulative GPA 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.

## Degrees Available at SIUE

- Bachelor of Science, Civil Engineering

## Graduation Requirements

A cumulative GPA of 2.0 or higher is required for courses taught in the School of Engineering; a cumulative GPA 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.

## Sample Curriculum for the Bachelor of Science in Civil Engineering

### Year 1 (Fall Semester)

- (3) IE 106 Engineering Problem Solving
- (4) **CHEM 131** Engineering Chemistry (BPS)
- (1) **CHEM 135** Engineering Chemistry Lab (EL)
- (3) **ENG 101** English Composition I
- (5) **MATH 150** Calculus I (FQR)
- (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

### Year 1 (Spring Semester)

- (3) **ENG 102** English Composition II

- (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics Lab I (EL)
  - (3) **ACS 103** Interpersonal Communication (EUSC)
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **CE 204** Engineering Graphics & CAD
  - (3) **CE 240** Statics
  - (4) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** Physics II for Engineering (BPS)
  - (1) **PHYS 152L** University Physics Lab II (EL)
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (2) **CE 206** Civil Engineering Surveying
  - (3) **CE 242** Mechanics of Solids
  - (3) **MATH 305** Differential Equations I
  - (3) **ME 262** Dynamics
  - (3) **Breadth Life Science (BLS)**
  - (3) **ECON 111** Macroeconomics (BSS)
- 17 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) CE 315 Fluid Mechanics
  - (3) CE 342 Structural Engineering I
  - (2) CE 330 Engineering Materials
  - (1) CE 330L Engineering Materials Lab
  - (3) CS 140 Introduction to Computing or CS 145 Introduction to Computing for Engineers
  - (3) CE 354 Geotechnical Engineering
  - (1) CE 354L Geotechnical Engineering Lab
- 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (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)
- 18 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CE 416 Engineering Hydrology, CE 455 Foundation Design, or CE 459 Soil Improvement Methods
  - (3) CE 460 Municipal Infrastructure Design
  - (3) CE Elective I
  - (3) CE Selective
  - (3) PHIL 323 Engineering, Ethics, & Professionalism (BHUM)
  - (0) Preparation for Fundamental of Engineering Exam
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (1) CE 415L Applied Fluid Mechanics Lab
  - (3) CE 493 Engineering Design
  - (3) CE Elective II
  - (3) CE Elective III
  - (3) IE 345 Engineering Economic Analysis
  - (0-2) Health Experience (EH)
- 13-15 - Total Credits
- 

### Total Hours 125-127

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.



# Computer Engineering

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale)

## 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.

## 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 103
- PHIL 323
- MATH 150

### Breadth-Physical Science Courses (35 or 33 hours)

- CHEM 131<sub>1</sub>
- CHEM 135<sub>1</sub>
- MATH 150, 152, 224, 250, 305
- PHYS 141
- PHYS 151L
- PHYS 142
- PHYS 152L

<sup>1</sup> CHEM 121A and 125A may be substituted

### Breadth

- Fine & 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

### Engineering Courses (39 hours)

- ECE 210, 211, 282, 326, 351, 352, 381, 404, 405, 483
- IE 345
- IE 106

### Computer Science Courses (19 hours)

- CS 140, 150 240, 286, 314, 340

### ECE/CS Electives (9 hours)

## Retention

- Maintain a cumulative GPA of 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering
- Maintain a cumulative GPA 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.

### Degrees Available at SIUE

- Bachelor of Science, Computer Engineering

## Graduation Requirements for Electrical Engineering and Computer Engineering Programs

- Satisfactory completion of all University requirements for graduation
- A cumulative GPA of 2.0 or higher for courses taught in the School of Engineering
- A GPA 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
- Completion of senior assignment contained in ECE 404 and 405

## 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, 240

A cumulative GPA of 2.0 or higher is required for these courses.

## Sample Curriculum for the Bachelor of Science in Computer Engineering

### Year 1 (Fall Semester)

- (4) **CHEM 131** Engineering Chemistry (BPS)
  - (1) **CHEM 135** Engineering Chemistry Lab (EL)
  - (3) **ENG 101** English Composition I
  - (3) IE 106 Engineering Problem Solving
  - (5) **Math 150** Calculus I (QR)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **CS 140** Introduction to Computing I
  - (3) ENG 102 English Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
- 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **ECE 210** Circuit Analysis I
  - (3) **CS 150** Introduction to Computing II
  - (4) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** Physics II for Engineering (BPS)
  - (1) **PHYS 152L** University Physics II Lab (EL)
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) ECE 211 Circuit Analysis II
  - (4) ECE 282 Digital Systems Design
  - (3) CS 240 Introduction to Computing III
  - (3) **MATH 305** Differential Equations I
  - (3) ACS 103 Interpersonal Communication (EUSC)
- 17 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) ECE 326 Electronic Circuits I
  - (3) ECE 351 Signals and Systems
  - (3) ECE 352 Stochastic Processes
  - (3) CS 286 Intro to Comp. Org.
  - (3) MATH 224 Discrete Mathematics
- 16 - Total Credits
-

### Year 3 (Spring Semester)

- (3) Breadth Life Science (BLS)
  - (3) ECE 381 Microcontrollers
  - (3) ECE 483 Adv. Digital Systems Eng.
  - (3) ECE/CS Elective I
  - (3) ECON 111 Macroeconomics (BSS)
  - (3) Breadth Fine & Performing Arts (BFPA)
- 18 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) ECE 404 ECE Design
  - (3) ECE/CS Elective II
  - (3) CS 314 Operating Systems
  - (3) Breadth Info & Communication in Society (BICS)
  - (3) PHIL 323 Engineering, Ethics & Professionalism (BHUM)
  - (0-2) Health Experience
- 15-17 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) ECE 405 ECE Design Laboratory
  - (3) ECE/CS Elective III
  - (3) CS 340 Algorithms and Data Structures
  - (3) IE 345 Engineering Economic Analysis
  - (3) Interdisciplinary Studies (IS) (EGC)
- 15 - Total Credits
- 

### Total Hours 128-130

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Academic Emphasis Area' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Computer Science

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale)

## 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.

## 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 computer science majors are required to complete the following:

- ENG 101, ENG 102, ACS 103, RA 101 and MATH 150 (FQR)
- For the BS program, eight lecture courses in life, physical or social science including two labs
- For the BA program, eight courses in fine and

performing arts and humanities including two semesters of the same foreign language

### Degree Requirements BA

- CS 111, 140, 150, 234, 240, 286, 314, 321, 325, 330, 340, 360, 425, 447, 499
- MATH 125, 150, 224
- STAT 244

### One Computing Elective

- CS 382, 423, 434, 438, 454, 456, 482, 490, 495
- MATH 465

One two-semester foreign language sequence (101-102)

One Minor (or Second Major)

### Degree Requirements BS

- CS 111, 140, 150, 234, 240, 286, 314, 321, 325, 330, 340, 360, 425, 447, 499
- MATH 150, 152, 224
- STAT 380
- 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 131/135-121B/125B)
- One Additional Science Lab Elective (BIOL 150, CHEM 121A/125A, CHEM 131/135, PHYS 141/151L, or PHYS 201/201L)
- Four Computing Electives (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)

## Retention

- Maintain a cumulative GPA of 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering
- Maintain a cumulative GPA 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 re-apply for admission to the major. Students dropped from the major may direct a written appeal to the department's academic standards committee.

### Degrees Available at SIUE

- Bachelor of Arts, Computer Science
- Bachelor of Science, Computer Science

### 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 six hours of credit in major courses numbered above 299 at SIUE in the two years preceding graduation
- For BA 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

### 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: CS 234, 314, 321, 325, 330, 340, 382, 423, 434, 438, 447, 454, 456, 482, 490, 495

All courses must be completed with a minimum grade of C.

At least six semester hours must be earned at SIUE.

## Sample Curriculum for the Bachelor of Science in Computer Science

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### Year 1 (Fall Semester)

- (3) **CS 111** Concepts of Computer Science (BICS)
  - (4) **CS 140** Introduction to Computing I
  - (3) ENG 101 English Composition
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 103 Interpersonal Communication Skills (EUSC)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 19 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **CS 150** Introduction to Computing II
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (5) **MATH 152** Calculus II (BPS)
  - (3) MATH 224 Discrete Mathematics (BPS)
- 17 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) CS 234 Database and Web System Development
  - (3) CS 240 Introduction to Computing III
  - (4) Laboratory Science Sequence I (BPS, EL)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
- 16 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) CS 286 Intro to Computer Organization & Architecture
  - (3) MATH Elective
  - (5) Laboratory Science Sequence II (BPS, EL)
  - (3) STAT 380 Statistics for Applications (BICS)
- 14 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) CS 321 Human-Computer Interaction Design
- (3) CS 340 Algorithms and Data Structures
- (3) CS 314 Operating Systems
- (5) Lab Science Elective

14 - Total Credits

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### Year 3 (Spring Semester)

- (3) CS 325 Software Engineering
  - (3) CS 360 Ethical and Social Implications of Computing
  - (3) CS 330 Programming Languages
  - (3) Breadth Life Science (BLS)
  - (3) Interdisciplinary Studies
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CS 425 Senior Project: Software Design
  - (3) CS 447 Networks and Data Communications
  - (3) CS Elective I
  - (3) CS Elective II
  - (3) Breadth Social Science (BSS)/Experience Global Cultures (EGC)
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) CS 499-Senior Project: Software Implementation
  - (3) CS Elective III
  - (3) CS Elective IV
  - (3) Life, Physical or Social Science/Health Experience (EH)
- 12 - Total Credits
- 

**Total Hours 122**

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## Sample Curriculum for the Bachelor of Arts in Computer Science

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### Year 1 (Fall Semester)

- (3) **CS 111** Concepts of Computer Science (BICS)
  - (4) **CS 140** Introduction to Computing I
  - (3) ENG 101 English Composition
  - (3) MATH 125 Pre-calculus with Trigonometry (BPS)
  - (3) ACS 103 Interpersonal Communication Skills (EUSC)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **CS 150** Introduction to Computing II
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (5) **MATH 150** Calculus I (FQR)
  - (3) Breadth Social Science (BSS)
- 17 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) CS 240 Introduction to Computing III
  - (3) MATH 224 Discrete Mathematics (BPS)
  - (4) Foreign Language 101
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
- 16 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) CS 234 Database and Web System Development
  - (3) CS 286 Intro to Computer Organization & Architecture
  - (1) Health Experience
  - (4) STAT 244 Statistics (BICS)
  - (4) Foreign Language 102 (EGC)
- 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) CS 321 Human-Computer Interaction Design
  - (3) CS 340 Algorithms and Data Structures
  - (3) CS 314 Operating Systems
  - (3) Fine & Performing Arts or Humanities
  - (3) Unrestricted/Minor Elective
- 15 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CS 325 Software Engineering
  - (3) CS 360 Ethical and Social Implications of Computing
  - (3) Breadth Life Science (BLS)/Lab Experience (EL)
  - (3) Interdisciplinary Studies
  - (3) Fine & Performing Arts or Humanities
- 15 - Total Credits
-

### Year 4 (Fall Semester)

(3) CS 330 Programming Languages  
(3) CS 425 Senior Project: Software Design  
(3) CS 447 Networks and Data Communications  
(3) Fine & Performing Arts or Humanities  
(3) Unrestricted/Minor Elective  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) CS 499-Senior Project: Software Implementation  
(3) CS Elective  
(3) Fine & Performing Arts or Humanities  
(3) Unrestricted/Minor Elective

(3) Unrestricted/Minor Elective  
15 - Total Credits

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### Total Hours 125

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Construction Management

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale)

## 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 construction management majors are required to complete the following:

#### Breadth-Physical Science (BPS) Courses

- CHEM 120A
- CHEM 124A
- MATH 150
- MATH 152
- PHYS 141
- PHYS 151L

#### Construction Courses

- CNST 120, 210, 211, 241
- SURV 264
- CNST 301/L
- CNST 321, 332, 341, 351, 353, 403, 411, 451
- CNST 451L
- CNST 452, 470

#### Technical Electives

#### Business Courses \*

- ACCT 200, 210, 340
- IS 401
- FIN 320

- MGMT 330

#### Breadth - Fine & Performing Arts (3 credits)

#### Breadth - Humanities

- PHIL 323

#### Breadth - Information & Communication in Society

- STAT 244

#### Breadth - Social Science Courses \*

- ECON 111
- ECON 112

#### Foundations

- ENG 101
- ENG 102
- PHIL 323
- MATH 150 (FQR)
- ACS 103

#### Total: 127 units

\* These courses fulfill the requirements for a minor in business administration. To view a sample program, visit the [Department of Construction website](#).

### Areas of Specialization

Students seeking a Bachelor of Science in construction management may specialize in land surveying. Survey coursework is also available to geography and civil engineering students, and to visiting students possessing a previous bachelor's degree. Students should discuss their career objectives with their faculty advisor in the Department of Construction.

### Retention

Students must meet the following standards. Students who fail to do so will be placed on probation in the major.

- Maintain a cumulative GPA of 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of at least 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering



- Maintain a cumulative GPA of at least 2.25 in courses taught in the School of Business
- Maintain a cumulative GPA 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.

### Degrees Available at SIUE

- Bachelor of Science, Construction Management (specialization available in the following)
  - [Land Surveying](#)

### Graduation Requirements

Construction students must meet all University requirements for graduation and the following construction management program requirements:

- Earn a cumulative GPA above 2.0 in all construction courses
- Earn a cumulative GPA above 2.25 in all business courses to qualify for a minor in business administration
- Complete the construction management senior assignment

### Minor Requirements

A minor in construction management requires 21 semester hours. Courses are to be selected from the construction curriculum with approval from the chair of the Department of Construction. A cumulative GPA of 2.0 or higher is required for construction management courses.

### Sample Curriculum for the Bachelor of Science

#### in Construction Management

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##### Year 1 (Fall Semester)

- (2) **CNST 120** Introduction to Construction
  - (3) ENG 101 English Composition I
  - (5) **MATH 150** Calculus I (QR)
  - (3) **ECON 111** Macroeconomics (BSS)
  - (3) **CHEM 120A** Gen, Org, and Biological Chemistry (BPS)
  - (1) **CHEM 124A** Gen, Org, and Biol Chemistry Lab (EL)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 18 - Total Credits
- 

##### Year 1 (Spring Semester)

- (0/3) Experience Health (EH)
  - (3) ENG 102 English Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **ECON 112** Microeconomics (BSS)
  - (3) ACS 103 Interpersonal Communication (EUSC)
  - 14-17 - Total Credits
- 

##### Year 2 (Fall Semester)

- (3) CNST 211 Civil Construction Mat. & Methods
  - (4) **STAT 244** Statistics (BICS)
  - (3) **ACCT 200** Fundamentals of Financial Accounting
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics Lab I (EL)
  - 14 - Total Credits
- 

##### Year 2 (Spring Semester)

- (3) CNST 210 Building Construction Materials & Methods
  - (4) CNST 241 Statistics and Mechanics of Solids
  - (4) SURV 264 Surveying Fundamentals
  - (3) **ACCT 210** Managerial Accounting
  - (3) Breadth Fine & Performing Arts (BFPA)
  - 17 - Total Credits
- 

##### Year 3 (Fall Semester)

- (3) CNST 351 Structural Systems

- (3) CNST 332 Mechanical Systems/HVAC
  - (3) FIN 320 Financial Management and Decision Making
  - (3) ACCT 340 Business Law for Accountants
  - (3) Breadth Life Science (BLS)
- 
- 15 - Total Credits

### Year 3 (Spring Semester)

- (4) CNST 301/CNST 301L Soils
  - (3) CNST 321 Electrical Systems
  - (3) CNST 341 Plans and Specifications
  - (3) CNST 353 Computer Applications in Construction
  - (3) MGMT 330 Understanding the Bus. Environment
- 
- 16 - Total Credits

### Year 4 (Fall Semester)

- (3) CNST 403 Planning and Scheduling
  - (3) CNST 451 Estimating and Bidding
  - (1) CNST 451L Estimating and Bidding Lab
  - (3) Technical Elective I
  - (3) Technical Elective II
  - (3) PHIL 323 Engineering Ethics & Professionalism
- 
- 16 - Total Credits

### Year 4 (Spring Semester)

- (3) CNST 411 Construction Contracts
  - (4) CNST 452 Construction Management
  - (3) CNST 470 Internship
  - (3) IS 401 Business and Society (EGC)
  - (3) Technical Elective III
- 
- 16 - Total Credits

### Total Hours 126-129

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed, or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to

find course equivalency guides.

### Land Surveying Specialization Requirements

The land surveying specialization is designed to prepare graduates to meet the statutory requirements for eligibility to sit for the Illinois Fundamentals of Surveying examination and eventually become Professional Land Surveyors. The program of study consists of at least 24 hours of land surveying courses, including a core of 18 hours, and six hours of electives.

Completing the Bachelor of Science in construction management with a land surveying specialization requires 138 credit hours.

### Land Surveying Core Courses

- SURV 264, 310, 364, 482, 484

### Land Surveying Electives (select two)

- CNST 415
- SURV 470
- GEOG 418, 422, 423

### Sample Curriculum for the Bachelor of Science in Construction Management, Specialization in Land Surveying

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#### Year 1 (Fall Semester)

- (2) **CNST 120** Introduction to Construction
  - (3) ENG 101 English Composition I
  - (5) **MATH 150** Calculus I (QR)
  - (3) **ECON 111** Macroeconomics (BSS)
  - (3) **CHEM 120A** Gen, Org, and Biological Chemistry (BPS)
  - (1) **CHEM 124A** Gen, Org, and Biol Chemistry Lab (EL)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 
- 18 - Total Credits

#### Year 1 (Spring Semester)

- (0-3) Experience Health (EH)
- (3) ENG 102 English Composition II
- (5) **MATH 152** Calculus II (BPS)
- (3) **ECON 112** Microeconomics (BSS)
- (3) ACS 103 Interpersonal Communication (EUSC)

14/17 - Total Credits

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### Year 2 (Fall Semester)

(3) CNST 211 Civil Construction Materials & Methods  
(3) **ACCT 200** Fundamentals of Financial Accounting  
(3) **PHYS 141** Engineering Physics I (BPS)  
(1) **PHYS 151L** University Physics Lab (EL)  
(4) **STAT 244** Statistics (BICS)  
14 - Total Credits

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### Year 2 (Spring Semester)

(3) CNST 210 Building Construction Materials & Methods  
(4) CNST 241 Statics and Mechanics of Solids  
(4) SURV 264 Surveying Fundamentals  
(3) **ACCT 210** Managerial Accounting  
(3) Breadth Fine & Performing Arts (BFPA)  
17 - Total Credits

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### Year 3 (Fall Semester)

(3) SURV 310 Legal Aspects of Surveying  
(3) CNST 332 Mechanical Systems / HVAC  
(3) CNST 351 Structural Systems  
(3) FIN 320 Financial Management and Decision Making  
(3) Breadth Life Science (BLS)  
(3) ACCT 340 Business Law for Accountants  
18 - Total Credits

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### Year 3 (Spring Semester)

(3) CNST 301/CNST 301L Soils  
(3) CNST 321 Electrical Systems  
(3) CNST 341 Plans and Specifications  
(3) CNST 353 Computer Applications in Construction  
(3) SURV 364 Boundary Surveying  
15 - Total Credits

---

### Summer Session

(3) CNST 470 Internship  
(3) MGMT 330 Understanding the Bus. Environment  
6 - Total Credits

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### Year 4 (Fall Semester)

(3) CNST 403 Planning and Scheduling  
(3) CNST 451 Estimating and Bidding  
(1) CNST 451L Estimating and Bidding Lab  
(4) SURV 482 Advanced Survey Systems  
(3) PHIL 323 Engineering Ethics and Professionalism  
(3) Surveying Elective (choose from list)  
17 - Total Credits

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### Year 4 (Spring Semester)

(3) CNST 411 Construction Contracts  
(4) CNST 452 Construction Management  
(4) SURV 484 Survey Computations & Applications  
(3) Surveying Elective (choose from list)  
(3) IS 401 Business and Society (EGC)  
17 - Total Credits

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**Total Hours 136-139**

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### Notes:

#### Surveying Electives

(3) CNST 415 Land Development  
(3) SURV 470 Construction Internship  
(3) GEOG 418 GIS  
(3) GEOG 422 Remote Sensing  
(3) GEOG 423 Computer Mapping

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Criminal Justice Studies

## Admission Requirements

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Admission to the criminal justice program requires a minimum cumulative GPA of 2.50 from courses taken at SIUE.

### Transfer

Ordinarily, up to 12 semester hours of criminal justice transfer credit with grades of C or better 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.

## Degree Requirements

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- CJ 111, 202, 206, 208, 273, 302, 303, 366, 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, 206, 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 CJ 302: Research Methods, with a grade of C or better is required for enrollment in the supervised internship. Criminal justice majors may count up to six hours of 300- or 400-level courses in other programs with permission of the director of criminal justice studies.

Students admitted to the Accelerated Master of Science in criminal justice policy program may apply 12 hours of approved graduate CJ electives to the undergraduate program.

### Retention

Students majoring in criminal justice are required to maintain a cumulative average of C or better in their criminal justice coursework.

## 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).

## 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 must complete a minimum of one year of foreign language as well as six courses in fine and performing arts or humanities.

## Degrees Available at SIUE

- Bachelor of Arts, Criminal Justice Studies
- Bachelor of Science, Criminal Justice Studies

## Graduation

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A cumulative GPA 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 are required for graduation.

## Criminal Justice Minor Requirements

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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 nine hours of transfer credit may be accepted toward the minor.

## Sample Curriculum, Bachelor of Science in Criminal Justice

Students wishing to obtain a Bachelor of Arts may do so by adding one year of foreign language, as well as four additional courses in fine and performing arts or humanities.

See undergraduate [course descriptions](#) for details.

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## Year 1 Fall Semester

- (3) **SOC 111** Introduction to Sociology (BSS)
  - (3) **ANTH 111B** Human Culture and Communication (BSS, EGC, EUSC) (recom)
  - (3) ENG 101 English Composition I
  - (3) QR 101, MATH 150 or Higher
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

## Year 1 Spring Semester

- (3) **CJ 111** Intro to Criminal Justice
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Humanities (BHUM)
- 15 - Total Credits
- 

## Year 2 Fall Semester

- (3) **CJ 202** Introduction to Corrections
  - (3) **CJ 208** Introduction to Law Enforcement
  - (3) **POLS 112** American National Government (BSS)
  - (3) Breadth Information & Communication in Society (BICS)
  - (3) Breadth Life Science (BLS)
- 15 - Total Credits
- 

## Year 2 Spring Semester

- (3) CJ 273 Crime, Theory and Practice
  - (3) **CJ 206** Criminal Law
  - (3) Breadth Physical Science (BPS)
  - (3) Health Experience (EH)
  - (3) Life, Physical or Social Science with a lab (EL)
- 15 - Total Credits
- 

## Year 3 Fall Semester

- (3) CJ 302 Research Methods in CJ
  - (3) CJ 366 Race and Gender in CJ
  - (3) CJ Elective (200 level)
  - (3) Life, Physical or Social Science with a lab (EL)
  - (3) Elective
- 15 - Total Credits
- 

## Year 3 Spring Semester

- (3) CJ 303 Data Analysis in CJ or SOC 303 Stats with Computer Apps
  - (3) CJ Elective (200 level recommended)
  - (3) CJ Elective
  - (3) Interdisciplinary Studies (IS)
  - (3) Elective
- 15 - Total Credits
- 

## Year 4 Fall Semester

- (3) CJ Elective
  - (3) CJ Elective
  - (3) Elective
  - (3) Elective\*
  - (3) Elective\*
- 15 - Total Credits
- 

## Year 4 Spring Semester

- (3) CJ 488 Supervised Internship
  - (3) Elective\*
  - (3) Elective\*
  - (3) Elective
  - (2) Elective
- 14 - Total Credits
- 

## Total Hours 120

\*12 hours of approved graduate CJ electives may be applied to the undergraduate degree for students admitted to the Accelerated Master of Science in criminal justice policy program.

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Dental Medicine

## Admission Requirements

While the majority of accepted applicants have completed requirements for a Bachelor of Arts or a Bachelor of Science prior to matriculation at the School of Dental Medicine, 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. This includes the specified subjects listed below, at an accredited college or university in the United States. Credits are accepted from community and junior colleges, but it is recommended that most work be completed at a four-year institution. In addition to the stated prerequisites, preference will be given to applicants demonstrating exemplary academic performance in additional higher-level science courses while taking full academic loads. Science courses should not be survey courses or other such courses designed for non-science majors.

Applicants are required to complete the following coursework with a C or better by July of the intended entering year. Grades of D or lower and courses taken pass/fail or credit/no credit will not be accepted.

The specific subjects or equivalents which must be included are:

- \*General 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)

\*For the English requirement, 6 semester hours are accepted or the completion of a Bachelor of Arts or a Bachelor of Science. The remainder of the pre-dental program should be designed to contribute a broad cultural background; however, the program should not exclude courses related to the SDM curriculum such as anatomy, microbiology, physiology, genetics, etc.

We strongly suggest selecting several additional higher-level courses, as listed below:

- Anatomy (1 semester)
- Physiology (1 semester)
- Microbiology (1 semester)
- Cell and Molecular Biology (1 semester)
- Histology (1 semester)
- Immunology (1 semester)
- Genetics (1 semester)
- Neural Science/Neural Physiology (1 semester)
- Statistics (1 semester)

## 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% or higher);
- A minimum semester GPA of 2.25, in each semester;
- A minimum cumulative GPA 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.

## Degrees Available at SIUE

- Doctor of Dental Medicine (DMD) (Additional post-doctoral program opportunities include)
  - Advanced Education in General Dentistry (AEGD)
  - Fellowship in Implant Dentistry

## School of Dental Medicine

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### Program Description

The [SIU School of Dental Medicine](#) in Alton, Ill., offers a four-year academic program that awards the Doctor of Dental Medicine (DMD). The mission of the Southern Illinois University School of Dental Medicine is to educate dentists and improve the oral health of the region through patient care, research/scholarship and service. In addition to classroom, clinical, and research facilities, the School has recently opened a new multidisciplinary, preclinical simulation laboratory. The use of this facility will enhance the student's preparation to be outstanding healthcare providers. The School also has broad capabilities in microscopy, including scanning electron microscopy and confocal microscopy, as well as other sophisticated equipment with which to conduct biomedical research. Patient care is provided in state-of-the-art clinical facilities at the Alton campus and the East St. Louis Center.

The dental curriculum is a structured program that requires all students to participate in a specified course of study. During the first two academic years, the educational offerings center on the biomedical sciences such as anatomy, microbiology, physiology and pathology, and preclinical dental sciences such as operative dentistry, prosthodontics, pediatric dentistry, and community health. Courses consist of a mixture of didactic, laboratory and clinical offerings.

The third and fourth years of the curriculum focus on more advanced aspects of dental treatment and the relationship of basic, medical, and social sciences to the treatment of dental disease. During the third and fourth years, the students devote the majority of their time to providing comprehensive clinical outpatient care.

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 pre-doctoral 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 (DMD) 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 (BS/DMD Honors Program)

A special combined arts and sciences dental curriculum that leads to the Bachelor of Science and Doctor of Dental Medicine (BS/DMD 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, Ill. 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 in biological sciences with a specialization in medical science, or a Bachelor of Arts 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 (BS/DMD) 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.

### Sample Curriculum for the Doctor of Dental Medicine

#### Year 1 (Fall Semester)

- DAMT 711 — Medical Terminology (1st 9 weeks)
- DIID 711 — Ethical Issues in Dentistry (1st 9 weeks)
- DIEB 711 — Evidence Based Dentistry (1st 9 weeks)
- DGCP 711 — Cariology, Community & Preventive Dentistry (1st 9 weeks)
- DAMB 711 — Immunology/Immunopathology (2nd 9 weeks)
- DICC 716\* — Clinical Care II (18 wks.)
- DAPA 718\* — General/Systemic Pathology (18 wks.)
- DIGR 718\*\* — Grand Rounds (18 wks.)
- DRMO 711 — Dental Morphology (18 wks.)
- DROD 711 — Operative Dentistry I (18 wks.)
- DISF 711a\*\*\* — Foundations (18 wks.)
- DISF 711b\*\*\* — Nervous System (18 wks.)
- DISF 711c\*\*\* — Musculoskeletal System (18 wks.)
- DISF 711d\*\*\* — Cardiovascular System (18 wks.)
- DISF 711e\*\*\* — Respiratory System (18 wks.)
- DISF 711f\*\*\* — Metabolism (18 wks.)
- DISF 711g\*\*\* — Endocrine and Reproductive Systems (18 wks.)

\*Not graded until end of Semester II

\*\*Pass/Fail course - Credit Hours Issued at end of Semester II

\*\*\*Systems Structure and Function I (DISF 711a - DISF711g). Courses are scheduled at different intervals throughout the semester.

#### Year 1 (Spring Semester)

- DGPD 712 — Pediatric Dentistry I (2nd 9 weeks)
- DAMB 712 — Microbiology/Micropathology (18 wks.)
- DRFP 712 — Introduction to Fixed Pros. (18 wks.)
- DIOC 712 — Occlusion I (18 wks.)
- DRDM 712 — Intro to Dental Materials (18 wks.)
- DICC 716\* — Clinical Care II (18 wks.)
- DAPA 718\* — General / Systemic Pathology (18 wks.)
- DIGR 718\*\* — Grand Rounds (18 wks.)
- DICF 712a — Craniofacial Structure (18 wks.)
- DICF 712b — Craniofacial Function (18 wks.)
- DICF 712c — Oral Histology (18 wks.)
- DICF 712d — Oral Biology (18 wks.)

\*Course continued from Semester I

\*\*Pass/Fail course - Course continued from Semester I

\*\*\*Craniofacial Structure and Function I (DICF 712a - DICF712d). Courses are scheduled at different intervals throughout the semester.

#### Year 2 (Fall Semester)

- DALA 721 — Local Anesthesia/Pain Control 1st 9 Weeks
- DIPE 721 — Periodontology I 1st 9 weeks
- DARA 721a — Dental Radiography 1st 9 weeks
- DARA 721b — Radiographic Interpretation (2nd 9 weeks)
- DAOD 721 — Nitrous Oxide Anxiolysis (2nd 9 weeks)
- DGBS 721 — Dental Behavioral Science I (2nd 9 weeks)
- DGPD 721 — Pediatric Dentistry II (2nd 9 weeks)
- DICC 726\* — Clinical Care II (18 wks.)
- DIGR 728\*\* — Grand Rounds (18 wks.)
- DAPH 721 — Pharmacology I (18 wks.)
- DAPA 721 — Soft Tissue Oral Pathology (18 wks.)
- DGOR 721 — Orthodontics I (18 wks.)
- DRFP 721 — Fixed Prosthodontics I (18 wks.)
- DRRP 721 — Removable Complete Dentures I (18 wks.)

\*Not graded until end of Semester II



\*\*Pass/Fail course - Credit Hours Issued at end of Semester II

## Year 2 (Spring Semester)

- DAPH 722 — Pharmacology II 1st 9 Weeks
- DGBS 722 — Dental Behavioral Science II 1st 9 Weeks
- DGPD 722 — Pediatric Dentistry III 1st 9 Weeks
- DAME 722 — Medical Emergencies 1st 9 Weeks
- DIIP 722 — Dental Implantology I (2nd 9 weeks)
- DAOD 722 — Oral Diagnosis & Physical Evaluation (2nd 9 weeks)
- DAOM 722 — Oral and Maxillofacial Surgery I (2nd 9 weeks)
- DIPR 722 — Hard Tissue Oral Path/Oral Radiology (2nd 9 weeks)
- DIPC 726\* — Introduction to Patient Care II (18 wks.)
- DIGR 728\*\* — Grand Rounds (18 wks.)
- DAEN 722 — Preclinical Endodontics (18 wks.)
- DRFP 722 — Fixed Prosthodontics II (18 wks.)
- DAPE 722 — Periodontology II (18 wks.)
- DRRP 722 — Removable Partial Dentures I (18 wks.)
- DROD 722 — Operative Dentistry II (18 wks.)
- DARA 726\* — Preclinical Radiography (18 wks.)

\*Course continued from Semester I

\*\*Pass/Fail course - Course continued from Semester I

## Year 3 (Fall Semester)

- DGCP 730 — Special Needs & Geriatric Dent. Summer
- DGOR 730 — Orthodontics II Summer
- DITP 730 — Treatment Planning Summer
- DRRP 731 — Removable Complete Dentures II 1st 9 wks.
- DIPM 731 -Ethics & Jurisprudence in Dental Practice 1st 9 wks.
- DAOD 731 — Adv. Oral Medicine & Physical Eval. (18 wks.)
- DAPE 731 — Periodontology III (18 wks.)
- DRFP 731 — Fixed Prosthodontics III (18 wks.)
- DGBS 731 — Dental Behavioral Science III (18 wks.)
- DAOM 731 — Oral and Maxillofacial Surgery II (18 wks.)
- DAEN 731 — Endodontics (18 wks.)

- DIDM 731 — Adv. Dental Materials & Oper Dent. (18 wks.)
- DIIP 731 — Dental Implantology II (18 wks.)
- DIGR 738\* — Grand Rounds (18 wks.)
- DGBS 736\*\* — Clinical Behavioral Science 36 wks.
- DIPP 736\*\* — Professionalism & Patient Mgmt. I (43 wks.)
- DRDA 736\*\* — Clinical Dental Auxiliary Utilization (43 wks.)
- DAEN 736\*\* — Clinical Endodontics (43 wks.)
- DAOD 736\*\* — Clinical Oral Medicine (43 wks.)
- DAOM 736\*\* — Clinical Oral & Maxillofacial Surgery (43 wks.)
- DGPD 736\*\* — Clinical Pediatric Dentistry (43 wks.)
- DAPE 736\*\* — Clinical Periodontology (43 wks.)
- DRRP 736\*\* — Clinical Removable Prosthodontics (43 wks.)
- DARA 736\*\* — Clinical Radiology (43 wks.)
- DROD 736\*\* — Clinical Operative Dentistry (43 wks.)
- DRFP 736\*\* — Clinical Fixed Prosthodontics (43 wks.)
- DGCP 736\*\* — Clinical Community Dentistry (43 wks.)

\*Pass/Fail course - Credit Hours Issued at end of Semester II

\*\*Not graded until end of Semester II

## Year 3 (Spring Semester)

- DATH 732 — Therapeutics 1st 9 wks.
- DGAS 732 — Dental Anxiolysis, Sedation and General Anesthesia 1st 9 wks.
- DGPM 732a — Dental Practice Management I 1st 9 wks.
- DGPM 732b -Dental Practice Management II (2nd 9 wks.)
- DAIM 732 — Internal Medicine (2nd 9 wks.)
- DGBS 732 — Dental Behavioral Science IV (2nd 9 wks.)
- DRRP 732 — Adv Removable Prosthodontics (2nd 9 wks.)
- DGOR 732 — Orthodontics II (2nd 9 wks.)
- DAPH 732 — Applied Pharmacology (18 wks.)
- DAOM 732 — Oral & Maxillofacial Surgery III (18 wks.)
- DROC 732 — Occlusion II (18 wks.)

- DIGR 738\* — Grand Rounds (18 wks.)
- DGBS 736\*\* — Clinical Behavioral Science 36 wks.
- DIPP 736\*\* — Professionalism & Patient Mgmt. I (43 wks.)
- DRDA 736\*\* — Clinical Dental Auxiliary Utilization (43 wks.)
- DAEN 736\*\* — Clinical Endodontics (43 wks.)
- DAOD 736\*\* — Clinical Oral Medicine (43 wks.)
- DAOM 736\*\* — Clinical Oral & Maxillofacial Surgery (43 wks.)
- DGPD 736\*\* — Clinical Pediatric Dentistry (43 wks.)
- DAPE 736\*\* — Clinical Periodontology (43 wks.)
- DRRP 736\*\* — Clinical Removable Prosthodontics (43 wks.)
- DARA 736\*\* — Clinical Radiology (43 wks.)
- DROD 736\*\* — Clinical Operative Dentistry (43 wks.)
- DRFP 736\*\* — Clinical Fixed Prosthodontics (43 wks.)
- DGCP 736\*\* — Clinical Community Dentistry (43 wks.)

\*Pass/Fail course - Course continued from Semester I

\*\*Course continued from Semester I

### Year 4 (Fall Semester)

- DGPM 740 — Dental Practice Management II Summer
- DGPM 741 — Dental Practice: A Mgmt. Simulation (18 wks.)
- DGPD 748\* — Advanced Pediatric Dentistry (18 wks.)
- DIPP 746\* — Professionalism & Patient Mgmt. II (43 wks.)
- DRDA 746\* — Adv. Clinical DAU (43 wks.)
- DGCP 746\* — Adv. Clinical Community Dentistry (43 wks.)
- DAEN 746\* — Advanced Clinical Endodontics (43 wks.)
- DAOD 746\* — Adv. Clinical Oral Diag/Oral Med/EM (43 wks.)
- DAOM 746\* — Adv. Oral & Maxillofacial Surgery (43 wks.)
- DGOR 746\* — Adv. Clinical Orthodontics (43 wks.)
- DGPD 746\* — Adv. Clinical Pediatric Dentistry/ESL (43 wks.)

- DAPE 746\* — Adv. Clinical Periodontology (43 wks.)
- DARA 746\* — Adv. Clinical Radiology (43 wks.)
- DRRP 746\* — Adv. Clinical Removable Pros. (43 wks.)
- DROD 746\* — Adv. Clinical Operative Dentistry (43 wks.)
- DRFP 746\* — Adv. Clinical Fixed Prosthodontics (43 wks.)
- DIIP 746\* — Adv. Clinical Dental Implantology (43 wks.)
- DIGR 748\*\* — Grand Rounds (18 wks.)

\*Not graded until end of Semester II

\*\*Pass/Fail course - Credit Hours Issued at end of Semester II

### Year 4 (Spring Semester)

- DISC 742 — Advanced Topic Selectives (2nd 9 wks.)
- DGPD 748\* — Advanced Pediatric Dentistry (18 wks.)
- DIPP 746\* — Professionalism & Patient Mgmt. II (43 wks.)
- DRDA 746\* — Adv. Clinical DAU (43 wks.)
- DGCP 746\* — Adv. Clinical Community Dentistry (43 wks.)
- DAEN 746\* — Advanced Clinical Endodontics (43 wks.)
- DAOD 746\* — Adv. Clinical Oral Diag/Oral Med/EM (43 wks.)
- DAOM 746\* — Adv. Oral & Maxillofacial Surgery (43 wks.)
- DGOR 746\* — Adv. Clinical Orthodontics (43 wks.)
- DGPD 746\* — Adv. Clinical Pediatric Dentistry/ESL (43 wks.)
- DAPE 746\* — Adv. Clinical Periodontology (43 wks.)
- DARA 746\* — Adv. Clinical Radiology (43 wks.)
- DRRP 746\* — Adv. Clinical Removable Pros. (43 wks.)
- DROD 746\* — Adv. Clinical Operative Dentistry (43 wks.)
- DRFP 746\* — Adv. Clinical Fixed Prosthodontics (43 wks.)
- DIIP 746\* — Adv. Clinical Dental Implantology (43 wks.)
- DIGR 748\*\* — Grand Rounds (18 wks.)

\*Course continued from Semester I

\*\*Pass/Fail course - Course continued from Semester I

## Early Childhood Education

### Admission Requirements

To declare a major in early childhood 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
- A cumulative GPA 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 Curriculum and Instruction 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 GPA 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 early childhood education, it is necessary to have:

- A cumulative GPA 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 coursework
- 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 coursework
- 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](#). 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 the School of Education, Health and Human Behavior Student Services for test information.

### 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.

### 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 website. 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.

### Senior Assignment

The senior project, a University requirement, is an integral part of the early childhood education program. Additional details are provided by program faculty and University supervisors. Students pursuing a career in teaching should make certain their courses are in compliance with University and departmental degree requirements, as well as state licensure requirements. Information about these requirements is provided to undergraduates by the education advisors in the School of Education, Health and Human Behavior Student Services. Important notices are posted for review.

### 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 five 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 postsecondary 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

## Retention

To remain in the early childhood education program, the student must maintain a cumulative GPA of 2.5 and earn a grade of C or better in all courses for the major. Normally, a student also must receive a satisfactory recommendation from the cooperating teacher and University instructor in field placement courses. If, at any point in the program, students decide that they do not wish to pursue initial teacher licensure in Illinois, they may re-apply to the early childhood education program to pursue a non-licensure option. Application forms may be obtained from School of Education, Health and Human Behavior Student Services. Students who apply for a non-licensure option will have an internship experience in place of student teaching. 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.

## Degrees Available at SIUE

- Bachelor of Science, Early Childhood Education

## Graduation Requirements (subject to change due to changes at ISBE)

- A GPA 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 four-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 for Graduation filed by the first day of the term in which you plan to graduate

## Sample Curriculum for the Bachelor of Science in Early Childhood Education

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### Year 1 (Fall Semester)

- (3) **ENG 101** English Composition I
  - (3) **MATH 112A** Mathematics for Elementary Teachers (BPS)
  - (3) **GEOG 111** Introduction to Geography (BSS, EGC)
  - (3) **ACS 101** Public Speaking
  - (3) **MUS 111, DANC 111** or **THEA 111** (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **ENG 102** English Composition II
  - (3) **MATH 112B** Mathematics for Elementary Teachers (BPS)
  - (3) **SCI 241A** Foundations of Science (BLS, EL)
  - (3) RA 101 Reasoning & Argumentation
  - (3) IT 300 Digital Learning and Comm. for Educators (BICS)
  - (3) QR 101 Reasoning & Argumentation
  - 18 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) ENG Literature (BHUM)
- (3) **HIST 200** or **HIST 201** United States History & Constitution (BSS, EL, EUSC)

- (3) SPE 290 Language Development
  - (3) **PSYC 201** Child Development (BSS)
  - (3) **ECON 111/ECON 112** (BSS)
- 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **ESCI 111** Earth Science (BPS)
  - (3) SPE 400 The Exceptional Child
  - (3) **SCI 241B** Foundations of Science (BPS, EL)
  - (3) **CIED 310** Planning for Diverse Learners
  - (3) CIED 311 Differentiated Instruction
- 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) SPE 440 Infants/Toddlers with 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
  - (3) Interdisciplinary Studies (IS)
  - (1) CIED 330 EC Field Experience I
- 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) CIED 318 Collaborative Relationships
  - (3) CIED 320 Supporting Language & Literacy Development: Birth-Age 5
  - (3) CIED 319A Inquiry, Investigation & Play in the Early Years
  - (3) CIED 319B Inquiry, Investigation & Play in the Early Years Lab
  - (3) CIED 314 Learning Environments
  - (1) CIED 331 EC Field Experience II
- 16 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CIED 321 Primary Literacy Assessment and Instruction
  - (3) CIED 417 Assessment of Young Children
  - (3) CIED 418 Teaching Mathematics in Early Childhood Ed.
  - (3) CIED 416 Inquiry, Investigation & Play in the Primary Grades
  - (1) CIED 332 EC Field Experience II
- 13 - Total Credits
- 

### Year 4 (Spring Semester)

#### Licensure

- (5) CIED 458 Early Childhood Student Teaching
  - (5) CIED 459 Elementary Student Teaching
  - (2) CIED 457 Professionalism, Ethics & Advocacy in Early Childhood
- 12 - Total Credits

#### Non-Licensure

- (5) CI 490A Independent Projects: Curriculum
  - (5) CI 490G Independent Projects: Early Childhood
  - (2) CIED 457 Professionalism, Ethics & Advocacy in Early Childhood Education
- 12 - Total Credits
- 

### Total Hours 121

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Economics

## Admission Requirements

The admission/entrance requirements for a degree in economics are the same as for the University. High school deficiencies and academic development courses must be completed before applying for a major in economics.

### 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 MATH 120 College Algebra (BPS).

### Degree Requirements BA and BS

- ECON 111\*, 112\*
- MS 250\*, 251\*
- ECON 301\*, 302\*
- ECON 415\* or 417\*
- ECON Elective
- ECON Elective
- ECON Elective
- ECON Elective
- Senior Assignment

\* C or higher required.

### Retention

Students in the Bachelor of Arts and Bachelor of Science programs are required to maintain a 2.0 GPA in economics courses.

### Degrees Available at SIUE

- Bachelor of Arts, Economics

- Bachelor of Science, Economics

## Graduation Requirements

- Maintain a 2.0 GPA in economics courses and a cumulative 2.0 GPA
- 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.

## 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 GPA in economics courses. Any course with a grade of D accepted for transfer credit to SIUE will not count toward the minor in economics.

## Sample Curriculum for the Bachelor of Arts in Economics

### Year 1 (Fall Semester)

- (3) **ECON 111** Macroeconomics (BSS)
- (3) ENG 101 Composition
- (4) Foreign Language 101 (BICS)
- (3) Math 120 College Algebra (BPS)
- (3) Breadth Fine & Performing Arts (BFPA)
- (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

### Year 1 (Spring Semester)

- (3) **ECON 112** Microeconomics (BSS)
- (3) ACS 101 Public Speaking

(3) ENG 102 Composition  
(4) Foreign Language 102 (EGC)  
(3) **MS 250** Math Methods for Business Analysis  
16 - Total Credits

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### **Year 2 (Fall Semester)**

(4) **MS 251** Statistical Analysis for Business Decisions (EL)  
(3) Breadth Humanities (BHUM)/Experience United States Culture (EUSC)  
(3) Breadth Life Science (BLS)  
(3) RA 101 or PHIL 112  
(3) Elective  
16 - Total Credits

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### **Year 2 (Spring Semester)**

(3) ECON 301 Intermediate Micro Theory (BSS)  
(3) ECON 302 Intermediate Macro Theory (BSS)  
(2) Health Experience (EH)  
(3) QR 101 or MATH 150 or Higher  
(3) Minor  
14 - Total Credits

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### **Year 3 (Fall Semester)**

(3) ECON elective  
(3) Fine & Performing Arts or Humanities  
(3) Fine & Performing Arts or Humanities  
(3) Minor  
(3) Minor  
15 - Total Credits

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### **Year 3 (Spring Semester)**

(3) ECON Elective  
(3) Interdisciplinary Studies (IS)  
(3) Fine & Performing Arts or Humanities  
(3) Minor  
(3) Minor  
15 - Total Credits

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### **Year 4 (Fall Semester)**

(3) ECON Elective  
(3) Fine & Performing Arts or Humanities

(3) Elective  
(3) Elective/Minor  
(3) Minor  
15 - Total Credits

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### **Year 4 (Spring Semester)**

(3) ECON 417 Business Forecasting or ECON 415 Econometrics  
(0) Senior Assignment/Exit Requirement  
(3) ECON Elective  
(3) Elective  
(3) Elective  
12 - Total Credits

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### **Total Hours 120**

### **Sample Curriculum for the Bachelor of Science in Economics**

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#### **Year 1 (Fall Semester)**

(3) **ECON 111** Macroeconomics (BSS)  
(3) ENG 101 Composition  
(3) Math 120 College Algebra (BPS)  
(3) ACS 101 Public Speaking  
(3) Fine & Performing Arts (BFPA)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### **Year 1 (Spring Semester)**

(3) **ECON 112** Microeconomics (BSS)  
(3) QR 101, MATH 150 or Higher  
(3) ENG 102 Composition  
(3) **MS 250** Math Methods for Business Analysis  
(3) RA 101 Reasoning and Argumentation  
15 - Total Credits

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#### **Year 2 (Fall Semester)**

(4) **MS 251** Statistical Analysis for Business Decisions (EL)  
(3) Breadth Humanities (BHUM)  
(3) Breadth Info & Communication in Society (BICS)  
(3) Breadth Life Science (BLS)  
(3) Experience Lab (EL)  
16 - Total Credits

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## Year 2 (Spring Semester)

- (3) ECON 301 Intermediate Micro Theory (BSS)
  - (3) ECON 302 Intermediate Macro Theory (BSS)
  - (3) Elective
  - (3) Experience United States Culture (EUSC)
  - (3) Minor
  - 15 - Total Credits
- 

## Year 3 (Fall Semester)

- (3) ECON elective
  - (3) Global Cultures (EGC)
  - (2) Health Experience (EH)
  - (3) Minor
  - (3) Minor
  - 14 - Total Credits
- 

## Year 3 (Spring Semester)

- (3) ECON Elective
  - (3) Interdisciplinary Studies (IS)
  - (3) Elective
  - (3) Minor
  - (3) Minor
  - 15 - Total Credits
- 

## Year 4 (Fall Semester)

- (3) ECON Elective
- (3) Elective
- (3) Elective
- (2) Elective
- (3) Minor

14 - Total Credits

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## Year 4 (Spring Semester)

- (3) ECON 417 Business Forecasting or ECON 415 Econometrics
  - (0) Senior Assignment/Exit Requirement
  - (3) ECON Elective
  - (3) Elective/Minor
  - (3) Elective
  - (3) Elective
  - 15 - Total Credits
- 

## Total Hours 120

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**NOTES:** Bachelor of Arts requires completion of eight courses in fine and performing arts or humanities, including two semesters of the same foreign language. Bachelor of Science requires completion of eight lecture courses in life, physical or social science, including two lecture courses with labs (EL).

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Electrical Engineering

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale)

## 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.

## 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 103
- PHIL 323
- MATH 150

### Breadth-Physical Science Courses (35 or 33 hours)

- CHEM 131<sub>1</sub>
- CHEM 135<sub>1</sub>
- MATH 150, 152, 250, 305, 355
- PHYS 141
- PHYS 151L
- PHYS 142
- PHYS 152L

<sub>1</sub>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

### Engineering Courses (49 hours)

- ECE 210, 211, 282, 326, 340, 341, 351, 352, 365, 375, 404, 405
- IE 345
- IE 106
- CS 140 or CS 145

### Non-ECE Technical Elective (3 hours) and ECE Electives (12 hours)

## Retention

- Maintain a cumulative GPA of 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering
- Maintain a cumulative GPA 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.

### Degrees Available at SIUE

- Bachelor of Science, Electrical Engineering

### Graduation Requirements for Electrical Engineering and Computer Engineering Programs

- Satisfactory completion of all University requirements for graduation
- A cumulative GPA of 2.0 or higher for courses taught in the School of Engineering
- A GPA 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
- Completion of senior assignment contained in ECE 404 and 405.

### 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 GPA of 2.0 or higher is required for courses.

### Sample Curriculum for the Bachelor of Science in Electrical Engineering

#### Year 1 (Fall Semester)

- (4) **CHEM 131** Engineering Chemistry (BPS)
- (1) **CHEM 135** Engineering Chemistry Lab (EL)
- (3) **ENG 101** English Composition I

- (3) IE 106 Engineering Problem Solving
  - (5) **MATH 150** Calculus I (QR)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

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#### Year 1 (Spring Semester)

- (3) **ENG 102** English Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (3) **ACS 103** Interpersonal Communication (EUSC)
- 15 - Total Credits

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#### Year 2 (Fall Semester)

- (3) **ECE 210** Circuit Analysis I
  - (3) **CS 145** Introduction to Computing I
  - (4) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** Physics II for Engineering (BPS)
  - (1) **PHYS 152L** University Physics II Lab
- 14 - Total Credits

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#### Year 2 (Spring Semester)

- (4) ECE 211 Circuit Analysis II
  - (4) ECE 282 Digital Systems Design
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) **MATH 305** Differential Equations I
  - (3) **ECON 111** Macroeconomics (BSS)
- 17 - Total Credits

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#### Year 3 (Fall Semester)

- (4) ECE 326 Electronic Circuits I
  - (3) ECE 351 Signals and Systems
  - (3) ECE 352 Stochastic Processes
  - (5) MATH 355 Engineering Mathematics
  - (0-2) Health Experience (EH)
- 15-17 - Total Credits

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#### Year 3 (Spring Semester)

- (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)  
18 - Total Credits

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**Year 4 (Fall Semester)**

(4) ECE 341 Electromechanical Energy Conv.  
(3) ECE 404 ECE Design  
(3) ECE Elective I  
(3) ECE Elective II  
(3) PHIL 323 Engineering, Ethics & Professionalism  
(BHUM)  
16 - Total Credits

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**Year 4 (Spring Semester)**

(3) ECE 405 ECE Design Laboratory  
(3) ECE Elective III  
(3) ECE Elective IV

(3) IE 345 Engineering Economic Analysis  
(3) Interdisciplinary Studies (IS)  
15 - Total Credits

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**Total Hours 127-129**

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Academic Emphasis Area' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Elementary Education

## Admission Requirements

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 GPA 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 GPA 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 GPA 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 coursework
- 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](#). 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

## 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.

## 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).

## Retention

To remain in the elementary education program, the student must maintain a cumulative GPA 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](#). 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.

## Degrees Available at SIUE

- Bachelor of Science, Elementary Education

## Graduation Requirements

- A GPA 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 four-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 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](#)
- 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](#)
- File an Application for Graduation by the first day of the term in which you plan to graduate

## Sample Curriculum for the Bachelor of Science in Elementary Education

### Year 1 (Fall Semester)

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(3) ENG 101 English Composition I  
(3) MUS 111 Introductory Music History/Literature  
or  
(3) ART 111 Introduction to Art (BFPA)  
or  
(3) DANC 111 The Dance Experience (BFPA)  
(3) MATH 112A Math for Elementary Teachers:  
Number Sense and Algebra (BPS)  
(3) RA 101 Reasoning & Argumentation  
(3) CIED 100 Introduction to Education  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

Note: During the first semester of coursework, start a file in the School of Education, Health and Human Behavior Student Services.

### Year 1 (Spring Semester)

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(3) ACS 101 Public Speaking  
(3) ENG 102 English Composition II

(3) MATH 112B Mathematics for Elementary Teacher (BPS)  
(3) PSYC 111 Foundations of Psychology (BSS)  
(3) QR 101 Quantitative Reasoning  
15 - Total Credits

### **Year 2 (Fall Semester)**

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(3) MATH 120 College Algebra  
(3) PSYC 201 Child Psychology (BSS)  
(3) HIS 200 U.S. History: Constitution to 1877 (BSS; EUSC)  
(3) ENG Literature (BHUM)  
(3) **CIED 310** Planning for Diverse Learners  
15 - Total Credits

Note: Take ILTS Test of Academic Proficiency (TAP) or retake ACT if needed.

### **Year 2 (Spring Semester)**

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(3) Science Elective (Breadth Area)  
(3) GEOG 111 Intro to Geography (BSS, EGC)  
(3) HIST 201 U.S. History: 1877 to Present (BSS)  
(3) ECON 111 or ECON 112  
(3) PBHE 111 Personal Health (EH)  
15 - Total Credits

### **Year 3 (Fall Semester)**

---

(3) CIED 312 Language and Communication  
(3) CIED 441 Math Methods  
(1) CIED 302 Field Experience II  
(3) SPE 400 Exceptional Child  
(3) SCI 241a Foundations of Science I (BLS, EL)  
(2) KIN 330 Integrating Physical and Health

Education into the K-8 Curriculum or approved substitution  
(3) Content Area Elective  
18 - Total Credits

### **Year 3 (Spring Semester)**

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(3) CIED 313 Intro to Educ. Assessment  
(3) CIED 321 Primary Literacy  
(3) CIED 443 Social Studies Methods  
(1) CIED 303 Field Experience III  
(3) SCI 241B Foundations of Science II (BPS, EL)  
(3) IT 300 Digital Learning and Comm. for Educators (BICS)  
16 - Total Credits

Note: Pass Content Area Test Prior to Student Teaching.

### **Year 4 (Fall Semester)**

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(3) CIED 322 Lit Comprehension and Composition  
(3) CIED 442 Science Methods  
(3) CIED 314 Learning Environments  
(3) CIED 311 Planning for Differentiated Instruction  
(2) CIED 304 Field Experience IV  
(3) IS Course  
17 - Total Credits

### **Year 4 (Spring Semester)**

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(10) CIED 451 Student Teaching  
(2) CIED 452 Seminar (Professionalism & Ethics)  
12 - Total Credits

**Total Hours 124**

# English

## Admission Requirements

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 GPA of at least 2.0 (on a 4.0 scale).

## 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.

## Degree Requirements

### Three required English courses (9 hours):

- ENG 200
- ENG 301
- ENG 497a

### Three survey courses (9 hours) from the following:

- ENG 205, 208, 209, 211, 212, 214, 215, 344\*, 345\*

\*ENG 344 and ENG 345 may be taken up to six 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, 404, 471, 473, 477, 479, 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, 290, 334, 489, 490, 491

One additional upper-level literature elective (3 hours); may not include survey or major authors courses 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)

### Major Concentration in Secondary English Language Arts

#### Six required English courses (18 hours):

- ENG 200, 301, 445, 475, 485, 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

**One course in language systems (3 hours) from the following:**

- ENG 369
- ENG 400

**One course in rhetoric and writing (3 hours) from the following:**

- ENG 332, 333, 334, 410, 412, 488, 490, 491

**One additional upper-level literature elective (3 hours) from the following:**

- ENG 306, 309, 310, 315, 340, 341, 342, 343, 344, 345, 404, 420, 446, 457, 463, 464, 473, 477, 478, 479, 480, 482

**Two required courses in Speech Communication Education (6 hours):**

- ACS 200
- ACS 461

**Foreign Languages (all hours in the same language : 8 hours)**

**Professional Education Courses (39 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 200 level and must include at least 15 hours at the 400 level. Students must make a 400-level selection in language systems, rhetoric and writing, or literature to meet the minimum requirement.

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 requirements.

English majors seeking a Professional Educator License (Grades 9-12) in Secondary English Language Arts must maintain a cumulative 3.0 GPA in English 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 meet all requirements for the non-licensure English major excluding the minor requirement. Students seeking licensure will be mentored in the English education program and will take 15 hours in specific courses in English and speech rather than the required 6 hours of English electives for the non-licensure English BA degree. A minor program must be added if a student drops the Secondary English Language Arts major concentration.

One calendar year before the semester in which teacher candidates plan to begin student teaching, English majors 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 on the [Secondary English Education website](#).

The Bachelor of Arts in English plus Professional Educator Licensure (Grades 9-12) in Secondary English Language Arts fulfills state of Illinois 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.

## 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.

### Retention

- Maintain a cumulative GPA of 2.0.
- Maintain a term GPA above 1.0 in any term.

## Degrees Available at SIUE

- Bachelor of Arts in English
- Bachelor of Arts in English, [Major Concentration in Secondary English Language Arts \(Professional Educator Licensure, Grades 9-12\)](#)

## Available English Program Minors

- Creative Writing
- Linguistics
- Literature
- Rhetoric and Writing

## 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.

## 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. Six 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. The literature minor may not be combined with an English major.

## Creative Writing Minor Requirements

The creative writing minor may be combined with an English major. However, courses may not be counted for both programs. 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]
- Any 400-level literature course (particularly contemporary literature)
- ENG 494 (Literary Editing) [offered fall semester only]
- 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 394\* (Playwriting)
- ENG 444\* (Creative Nonfiction)
- 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 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 18 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

### Sample Curriculum for the Bachelor of Arts in English

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#### Year 1 Fall Semester

- (3) **ENG 101** English Composition I
  - (3) RA 101 Reasoning and Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) QR 101 or MATH 150 or Higher
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

#### Year 1 Spring Semester

- (3) **ENG 102** English Composition II
  - (3) **ENG** (Survey/BHUM)
  - (3) Breadth Social Science (BSS)
  - (3) Experience United States Cultures (EUSC)
  - (2) Health Experience (EH)
  - 14 - Total Credits
-

## Year 2 Fall Semester

- (3) ENG 200 Introduction to Literary Study
  - (3) **ENG** (Survey/BHUM)
  - (4) **Foreign Language 101** (BICS)
  - (3) Breadth Life Science (BLS)
  - (3) Experience Lab (EL)
  - 16 - Total Credits
- 

## Year 2 Spring Semester

- (3) **ENG** (Survey/BHUM)
  - (3) ENG 301 (Literary Theory)
  - (4) **Foreign Language 102** (EGC)
  - (3) Minor
  - (3) Breadth Physical Science (BPS)
  - 16 - Total Credits
- 

## Year 3 Fall Semester

- (3) ENG (Writing Approaches)
  - (3) ENG (Major Author/BHUM)
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor
  - (3) Elective
  - 15 - Total Credits
- 

## Year 3 Spring Semester

- (3) ENG (Language Systems)
  - (3) ENG Elective (200 or higher)
  - (3) Minor
  - (3) Minor
  - (3) Elective
  - 15 - Total Credits
- 

## Year 4 Fall Semester

- (3) ENG (Upper-Level Lit Elective)
  - (3) ENG Elective (200 or higher)
  - (3) Minor
  - (3) Minor
  - (3) Elective
  - 15 - Total Credits
- 

## Year 4 Spring Semester

- (3) ENG 497A-Senior Seminar
  - (3) Elective/Minor
  - (7) Electives
  - 13 - Total Credits
- 

### Total Hours 120

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**Notes:** 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 grade of 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.

\*Students who wish to pursue **Professional Educator Licensure for Secondary English Language Arts** should note that the requirements are different. Please see Dr. Jill Anderson in the Department of English as soon as possible to discuss your four-year program of study.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Requirements for students seeking Professional Educator Licensure

Admission to the secondary teacher education program is a joint decision by the Department of English 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 SEHNB Student Services. An overall GPA of 2.5 is required for admission to the teacher licensure program. GPAs will be calculated based on all courses taken at all institutions. In addition, English majors seeking professional educator licensure (grades 9-12) in Secondary English Language Arts must maintain a cumulative 3.0 GPA in English courses. No course with a grade of less than a C will be applied to meet professional educator licensure requirements.

Students seeking a Professional Educator License (PEL) must meet specific general education and professional education requirements and must pass multiple state licensure tests before 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 [SEHNB advisor](#).

### **Sample Curriculum for the Bachelor of Arts in English, Secondary English Language Arts Professional Educator Licensure in Secondary English Language Arts (9-12)**

#### **Year 1 Fall Semester**

- (3) ENG 101 English Composition I (FW1)
  - (3) ACS 101 Public Speaking (FSPC)
  - (3) RA 101 (FRA)
  - (3) Breadth Physical Science (BPS) with Lab (EL)
  - (4) Foreign Language 101 (BICS)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

#### **Year 1 Spring Semester**

- (3) ENG 102 English Composition (FW2)
- (3) ENG 208 or ENG 209 British Survey (BHUM)
- (3) QR 101 Quantitative Reasoning (FQR)
- (3) Breadth Life Science (BLS)
- (4) Foreign Language 102 (same language as 101)

(EGC)  
16 - Total Credits

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#### **Year 2 Fall Semester**

- (3) ENG 200 Introduction to Literary Study
  - (3) ENG 205, ENG 211 or ENG 212 American Survey (EUSC)
  - (3) ENG 369 or ENG 400 Language (grammar or linguistics)
  - (3) ACS 200 Advanced Public Speaking
  - (3) THEA 111 or ENG 290 (BFPA)
  - (0) Health Experience (EH)
- 15 - Total Credits
- 

#### **Year 2 Spring Semester**

- (3) ENG 301 Introduction to Literary Theory and Criticism
  - (3) ENG 214 or ENG 215 World Survey
  - (3) ENG 332, ENG 333, ENG 334, ENG 410, ENG 412, ENG 488, ENG 490, or ENG 491 Rhetoric & Writing
  - (3) ACS 461 Strategies for Teaching Speech
  - (3) Breadth Social Science (BSS)
- 15 - Total Credits
- 

#### **Year 3 Fall Semester**

- (1) CIED 302 Field Experience II
  - (3) CIED 310 Planning for Diverse Learners
  - (3) CIED 312 Language and Communication in Multiple Contexts
  - (3) IT 300 Digital Learning and Communication for Educators
  - (3) ENG 485 Writing for English Teachers
  - (3) ENG 307 or ENG 471 Shakespeare
- 16 - Total Credits
- 

#### **Year 3 Spring Semester**

- (1) CIED 303 Field Experience III
- (3) CIED 323 Adolescent Disciplinary Literacy
- (3) SPE 400 The Exceptional Child
- (3) ENG 445 Young Adult Literature
- (3) ENG 475 Methods of Teaching Secondary English Language Arts

(3) Interdisciplinary Studies (IS)

16 - Total Credits

English Student Teacher Screening - Student teacher screening portfolios due at the beginning of year 3 spring semester.

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### **Year 4 Fall Semester**

(1) CIED 304 Field Experience IV

(3) CIED 311 Planning for Differentiated Instruction

(3) CIED 313 Introduction to Educational Assessment

(3) CIED 314 Creating and Managing Effective Learning Environments

(3) ENG Literature Elective (upper-level)

(3) ENG 497A English Senior Seminar

16 - Total Credits

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### **Year 4 Spring Semester**

(10) CIED 455F 9-12 Student Teaching Experience - English

(2) CIED 456 9-12 Senior Seminar in Professionalism and Ethics of Teaching

12 - Total Credits

### **Total Hours 123**

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See an [SEHHB Student Services advisor](#) for help with initial testing requirements and to be admitted into courses in the SEHHB's professional educator licensure program.

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.

# Environmental Sciences

## Admission Requirements

The program's admission and prerequisite requirements 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 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 an 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 Department of Environmental Sciences. If students need help or have questions, an initial advising appointment can be made with the Chair to assist students with their paperwork.

## 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 environmental sciences majors are required to complete the following:

### Bachelor of Science or Bachelor of Arts in Environmental Sciences Specialization in Environmental Health

- ACS 101
- ECON 111
- ENSC 125, 220
- LENSC 325A
- ENSC 402, 431, 431L
- LENSC 436
- ENSC 490, 497, 498
- ENSC 491 or ENSC 499

Plus three from the following:

- ENSC 325B, 401, 437, 473, 475, 477

Biology (complete one of two options):

- BIOL 150, 151, 220, and BIOL 319 or BIOL 350  
or
- BIOL 140 or 150, 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, 334, 336, 363, 375, 399

## Mathematics

- MATH 145 or MATH 150
- MATH 152 (recommended, but not required)

## Physics

- PHYS 131, 131L, 132, 132L or PHYS 151, 151L, 152, 152L

## Statistics

- STAT 244 or 380

### **Bachelor of Science or Bachelor of Arts in Environmental Sciences Specialization in Environmental Toxicology**

- ACS 101
- ECON 111
- ENSC 125, 220, 220L, 325A, 325B, 330, 402, 431, 431L, 436, 490, 498, 499

Plus two from the following:

- ENSC 432, 434, 435, 437, 473, 475

## Biology:

- BIOL 150, 151, 220
- BIOL 240A or BIOL 340 or BIOL 350

## Chemistry:

- CHEM 241A, 241B, 245
- CHEM 121A, 121B, 125A, 125B; or CHEM 120A, 120B, 124A, 124B

Interdisciplinary Studies (Choose one):

- IS 322, 334, 336, 363, 375, 399

## Mathematics

- MATH 145 or MATH 150
- MATH 152 (recommended, but not required)

## Physics

- PHYS 131, 131L, 132, 132L or PHYS 151, 151L, 152, 152L

## Statistics

- STAT 244 or 380

### **Bachelor of Science or Bachelor of Arts in Environmental Sciences Specialization in Environmental Management**

- ACS 101
- ECON 111
- ENSC 125, 220, 220L, 325A, 330, 340, 401, 402, 435, 440, 490, 498, 499

Plus two from the following:

- ENSC 210, 431, 434, 450, 475

## Biology:

- BIOL 150, 151, 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, 334, 336, 363, 375, 399

## Mathematics

- MATH 145 or MATH 150
- MATH 152 (recommended, but not required)

## Physics

- PHYS 131, 131L, 132, 132L or PHYS 151, 151L, 152, 152L

## Statistics

- STAT 244 or 380

Note: Enrollment in CHEM 241A/B requires a minimum grade of D or higher in CHEM 121B/125B.



## Degrees Available at SIUE

- Bachelor of Arts in Environmental Sciences
- Bachelor of Science in Environmental Sciences

Specialization required in one of the following:

- [Environmental Health](#)
- [Environmental Management](#)
- [Environmental Toxicology](#)

## Graduation Requirements

In order to earn a Bachelor of Science or Bachelor of Arts in environmental sciences the following conditions must be met:

- Earn a minimum of 120 hours of acceptable credit with a cumulative GPA 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 GPA of 2.0 or higher
- Earn a grade of C or better in all required major courses
- Earn a cumulative GPA of 2.0 or higher in major courses
- Complete at least six hours of credit in major courses numbered above 299 within two years preceding graduation

## 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 18 units of courses while maintaining a minimum cumulative GPA of 2.5:**

- ENSC 125 - Topics of Environmental Health and Toxicology (spring)
- 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)

## Sample Curriculum for the Bachelor of Science in Environmental Sciences, Specialization in Environmental Health

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### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry (BPS)
  - (1) **CHEM 125A** General Chemistry Lab (EL)
  - (3) ENG 101 English Composition I (FW1)
  - (5) **MATH 150** Calculus I (FQR)
  - (3) ACS 101 Public Speaking (FSPC)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121B** General Chemistry (BPS)
  - (1) **CHEM 125B** General Chemistry Lab (EL)
  - (3) ENG 102 English Composition II (FW2)
  - (3) RA 101 Reasoning & Argumentation (FRA)
  - 15 - Total Credits
-

## Year 2 (Fall Semester)

- (4) **BIOL 151** Biology II (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry
  - (2) ENSC 125 Topics of Environmental Health & Toxicology
  - (3) Breadth-Humanities (BHUM)
  - (3) **ECON 111** Principles of Macroeconomics (BSS)
- 15 - Total Credits
- 

## Year 2 (Spring Semester)

- (4) BIOL 220 Genetics
  - (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (4) **STAT 244** Statistics (BICS)
  - (3) Breadth-Fine & Performing Arts (BFPA)
- 16 - Total Credits
- 

## Year 3 (Fall Semester)

- (4) BIOL 350 Microbiology
  - (3) **ENSC 220** Principles of Environmental Sciences
  - (1) **ENSC 220L** Principles of Environmental Sciences Lab
  - (1) Experiences - Health (EH)
  - (4) **PHYS 131** College Physics I (BPS)
  - (1) **PHYS 131L** College Physics I Lab (EL)
- 14 - Total Credits
- 

## Year 3 (Spring Semester)

- (3) ENSC 325A Toxicants in the Environment
  - (3) ENSC 330 Environmental Health & Waste Management (EGC)
  - (1) ENSC 499 Research in Environmental Sciences
  - (3) Interdisciplinary Studies (IS)
  - (4) **PHYS 132** College Physics II (BPS)
  - (1) **PHYS 132L** College Physics II Lab
- 15 - Total Credits
- 

## Year 4 (Fall Semester)

- (3) ENSC 402 Environmental Law (POLS 497)
- (3) ENSC 431 Environmental Toxicology
- (1) ENSC 431L Environmental Toxicology Lab
- (1) ENSC 498 Senior Project

- (3) ENSC Elective Course (ENSC 325B, ENSC 401, ENSC 437, ENSC 473, ENSC 475, ENSC 477)
  - (3) Experiences-United States Cultures
- 14 - Total Credits
- 

## Year 4 (Spring Semester)

- (3) ENSC 436 Environmental Epidemiology
  - (1) ENSC 490 Senior Assignment
  - (1) ENSC 497 Environmental Health Practicum
  - (6) ENSC Elective Courses (ENSC 325B, ENSC 401, ENSC 437, ENSC 473, ENSC 475, ENSC 477)
  - (3) Elective
- 14 - Total Credits
- 

## Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Science in Environmental Sciences, Specialization in Environmental Management

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### Year 1 (Fall Semester)

- (4) **CHEM 121A** General Chemistry (BPS)
  - (1) **CHEM 125A** General Chemistry Lab (EL)
  - (3) ENG 101 English Composition I (FW1)
  - (5) **MATH 145/150** Calculus I or Calculus for Life Sciences (FQR)
  - (3) ACS 101 Public Speaking (FSPC)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **BIOL 150** Biology I (BLS, EL)
- (4) **CHEM 121B** General Chemistry (BPS)
- (1) **CHEM 125B** General Chemistry Lab (EL)

(3) ENG 102 English Composition II (FW2)  
(3) RA 101 Reasoning & Argumentation (FRA)  
15 - Total Credits

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### Year 2 (Fall Semester)

(4) **BIOL 151** Biology II (BLS, EL)  
(3) **CHEM 241A** Organic Chemistry  
(2) ENSC 125 Topics of Environmental Health & Toxicology  
(3) Breadth-Humanities (BHUM)/Experience United States Cultures (EUSC)  
(3) **ECON 111** Principles of Macroeconomics (BSS)  
15 - Total Credits

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### Year 2 (Spring Semester)

(4) BIOL 220 Genetics  
(3) **CHEM 241B** Organic Chemistry (BPS)  
(3) GEOG 202 Natural Resource Management & Sustainability  
(4) **STAT 244** Statistics (BICS)  
14 - Total Credits

---

### Year 3 (Fall Semester)

(3) **ENSC 220** Principles of Environmental Sciences  
(1) **ENSC 220L** Principles of Environmental Sciences Lab  
(4) BIOL 365 Ecology  
(4) **PHYS 131** College Physics I (BPS)  
(1) **PHYS 131L** College Physics I Lab (EL)  
(3) Breadth FIne & Performing Arts (BFPA)  
16 - Total Credits

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### Year 3 (Spring Semester)

(3) ENSC Elective (210, 431, 434, 450, 475)  
(3) ENSC 325A Toxicants in the Environment  
(3) ENSC 330 Environmental Health & Waste Management (EGC)  
(1) ENSC 499 Research in Environmental Sciences  
(4) **PHYS 132** College Physics II (BPS)  
(1) **PHYS 132L** College Physics II Lab  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) ENSC 340 Ecosystem Management and Sustainability  
(3) ENSC 402 Environmental Law (POLS 497)  
(3) ENSC 435 Ecological Risk Assessment  
(1) ENSC 498 Senior Project  
(3) GEOG 418 Geographic Information Systems  
(3) Interdisciplinary Studies  
16 - Total Credits

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### Year 4 (Spring Semester)

(3) ENSC 401 Environmental Policy  
(3) ENSC 440 Sustainable Environmental Practices  
(1) ENSC 490 Senior Assignment  
(3) ENSC Elective (ENSC 431, ENSC 434, ENSC 450, ENSC 475)  
(2) Experiences-Health (EH)  
12 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Environmental Sciences, Specialization in Environmental Toxicology

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#### Year 1 (Fall Semester)

(4) **CHEM 121A** General Chemistry (BPS)  
(1) **CHEM 125A** General Chemistry Lab (EL)  
(3) ENG 101 English Composition I (FW1)  
(5) **MATH 150** Calculus I (FQR)  
(3) ACS 101 Public Speaking (FSPC)  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

---

### Year 1 (Spring Semester)

- (4) **BIOL 150** Biology I (BLS, EL)
  - (4) **CHEM 121B** General Chemistry (BPS)
  - (1) **CHEM 125B** General Chemistry Lab (EL)
  - (3) ENG 102 English Composition II (FW2)
  - (3) RA 101 Reasoning & Argumentation (FRA)
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) **BIOL 151** Biology II (BLS, EL)
  - (3) **CHEM 241A** Organic Chemistry
  - (2) ENSC 125 Topics of Environmental Health & Toxicology
  - (3) Breadth-Humanities (BHUM)
  - (3) **ECON 111** Principles of Macroeconomics (BSS)
- 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) BIOL 220 Genetics
  - (3) **CHEM 241B** Organic Chemistry (BPS)
  - (2) **CHEM 245** Organic Chemistry Lab (EL)
  - (4) **STAT 244** Statistics (BICS)
  - (3) Breadth-Fine & Performing Arts (BFPA)
- 16 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) BIOL 350 Microbiology
  - (3) **ENSC 220** Principles of Environmental Sciences
  - (1) **ENSC 220L** Principles of Environmental Sciences Lab
  - (4) **PHYS 131** College Physics I (BPS)
  - (1) **PHYS 131L** College Physics I Lab (EL)
  - (3) Experiences- United States Cultures
- 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) ENSC 325A Toxicants in the Environment
  - (3) ENSC 330 Environmental Health & Waste Management (EGC)
  - (1) ENSC 499 Research in Environmental Sciences
  - (3) Interdisciplinary Studies (IS)
  - (4) **PHYS 132** College Physics II (BPS)
  - (1) **PHYS 132L** College Physics II Lab
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) ENSC 325B Toxicants in the Environment
  - (3) ENSC 402 Environmental Law (POLS 497)
  - (3) ENSC 431 Environmental Toxicology
  - (1) ENSC 431L Environmental Toxicology Lab
  - (1) ENSC 498 Senior Project
  - (3) Elective
- 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) ENSC Elective Course (ENSC 432, ENSC 434, ENSC 435, ENSC 437, ENSC 473, ENSC 475)
  - (3) ENSC 436 Environmental Epidemiology
  - (1) ENSC 490 Senior Assignment
  - (3) ENSC Elective Course (ENSC 432, ENSC 434, ENSC 435, ENSC 437, ENSC 473, ENSC 475)
  - (2) Experiences-Health
- 12 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact. Visit the [transfer credit website](#) to find course equivalency guides.

# Exercise Science

## Admission Requirements

To be admitted to the exercise science major, students must:

- Earn a 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 GPA 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 GPA (on a 4.0 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 at SIUE. These requirements include:

- Maintain a cumulative GPA 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

### Transfer

Transfer students may be accepted on a space-available basis and in order to be considered must have:

- Minimum GPA of 2.75
- Completed KIN 275 (or equivalent) with a B or better
- Completed BIOL 140 or BIOL 150 (or equivalent) and CHEM 120A/124A or CHEM 121, 125A (or equivalent) with a C or better

Transfer credit for courses will be evaluated by the

Registrar.

## Degree Requirements

### Foundations Courses

- ENG 101, 102
- QR 101
- RA 101
- ACS 101

### 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)
- Global Cultures - EGC
- United States Cultures - EUSC
- Interdisciplinary Studies Course
- FST 101 Succeeding & Engaging at SIUE

### Major Requirements

- KIN 275, 310, 315, 316, 319, 340, 350, 412, 416, 417, 426, 460, 464
- BIOL 240A, 240B

### Approved Major Electives (18 hours)

- BIOL 151, 220, 250
- CHEM 120B/124B
- CHEM 121B/125B
- CHEM 241A, 241B
- CHEM 451
- HED 111, 240
- KIN 211, 418, 270, 490, 460, 496
- MATH 150
- NURS 234
- PHIL 320, 321
- PHYS 131, 132
- PSYC 201, 203, 204, 431

Approved Major Electives from appropriate disciplines approved by the advisor.

## 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 to a meaningful and impactful project with a 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 organizations, hospital and medical centers, research centers, strength and conditioning organizations, and a wide range of health-focused businesses.

## 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 into 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.

## 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 program 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, they will not be allowed to reapply to the exercise science program.

## Degrees Available at SIUE

- Bachelor of Science, Exercise Science

## 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 four-year institution
  - A minimum cumulative GPA of 2.0
- File an Application for Graduation by the first day of the term in which you plan to graduate

## 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

### Six 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.

## Sample Curriculum for the Bachelor of Science in Exercise Science

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### Year 1 (Fall Semester)

(3 or 4) **CHEM 120A/CHEM 121A** (BPS\*)  
(1) **CHEM 124A/CHEM 125A** (\*EL)  
(3) ENG 101 English Composition I  
(3) Breadth Social Science (\*BSS)  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
14 or 15 - Total Credits

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### Year 1 (Spring Semester)

(3) **KIN 275** Introduction to Careers in Nutritional & Exercise Sciences  
(3 or 4) **BIOL 140/BIOL 150** (BLS\*)  
(2) Elective  
(3) RA 101 Reasoning and Argumentation  
(3) ENG 102 English Composition II  
14 or 15 - Total Credits

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### Year 2 (Fall Semester)

(4) **BIOL 240A** Human Anatomy (BLS\*, EL)  
(3) **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)  
16 - Total Credits

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### Year 2 (Spring Semester)

(3) KIN Elective  
(3) KIN Elective  
(4) **BIOL 240B** Human Anatomy & Physiology (BLS\*, EL)  
(3) Humanities Breadth (BHUM)  
(3) QR 101 Quantitative Reasoning  
16 - Total Credits

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### Year 3 (Fall Semester)

(3) KIN 350 Exercise Physiology  
(3) KIN 315 Functional Anatomy  
(3) KIN 319 Theory of Strength Training & Conditioning  
(3) KIN Elective  
(3) Life, Physical or Social Science\*  
15 - Total Credits

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### Year 3 (Spring Semester)

(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)  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) 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 (\*)  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) KIN Elective  
(3) KIN 426 Cardiac 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)  
15 - Total Credits

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## Total Hours 120

**Notes:** The University requires students earning a Bachelor of Science (BS) to complete at least eight courses in the sciences (life, physical or social) (\*), including, as part of those eight courses, two courses designated as labs (EL).

**Transfer Students:** To maximize your transfer experience, complete

the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree

from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.



# Foreign Languages And Literature

## Admission Requirements

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 GPA of at least 2.0 in courses completed at SIUE

## 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 about transfer, please visit [siue.edu/transfer](http://siue.edu/transfer).

## Degree Requirements

### French and German Majors

- FL 111A,B
- FR/GER 201
- FR/GER 202
- FR/GER 301
- FR/GER 351
- FR/GER 352
- FR/GER 400A,B
- 300-400 level elective courses (12 hours)

### Spanish Major

- SPAN 201, 202, 301 or 303, 400
- 300-400 level elective courses (15 hours)
- 400-level elective (3 hours, excluding 491, 492 or 400)

Advanced electives will normally include at least two courses in culture, two in literature and one 400-level elective. SPAN 400 is usually taken during the last semester of major coursework.

## Spanish, French, German Professional Educator Licensure (K-12) Program

Students seeking teacher licensure (K-12) will complete the following in addition to major requirements:

- ENG 468 Second Language Acquisition
- FL 486 Methods for Teaching Foreign Languages K-12
- SPAN 308 Spanish Linguistics (for Spanish majors only)
- Professional Education Courses (see Sample Curriculum)
- Illinois State Licensure Requirements

In addition, all foreign language students seeking teaching licensure must take the SOPI (Simulated Oral Proficiency Interview) and 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.

## Proficiency and 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.

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 a students’ educational and employment opportunities.

## Retention

Students must maintain a cumulative GPA of at least 2.0 to remain in good academic standing. Students whose cumulative GPA 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.

## General Education Requirements

University general education requirements are outlined in the [general education section](#) of this catalog and included in the sample curriculum outline.

## Degrees Available at SIUE

- Bachelor of Arts or Bachelor of Science, Foreign Language & Literature (specialization required in one of the following)
  - [French](#)
  - [German](#)
  - [Spanish](#)
- [Professional Educator Licensure \(K-12\) program in French, German or Spanish](#)

## 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).

## 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 six hours of electives at the 300-400 level.
- Spanish Minors 201\*\*, 202\*\*, 301 or 303. Plus nine hours of electives at the 300-400 level; one of these electives must be 311 or 312.

## Minor in Russian Area Studies

A minor in Russian area studies consists of the following 26 hours: Russian 201\*\*, 202\*\*; and the following courses: Geography 331\*\*, History 318A\*\*, 318B\*; Philosophy 344\*\* Political Science 351\*\*

\* Students seeking teacher licensure should consult with their advisors.

\*\* Satisfies general education requirements

## Focus Requirements

A focus in Chinese consists of the following five required course and one elective (22 hours): 101\*\*, 102\*\*, 201, 202, FL111D\*\*, plus three 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 three hours of electives at the 300-400 level.

## Sample Curriculum for the Bachelor of Arts in Foreign Languages and Literature, French

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### Year 1 (Fall Semester)

- (4) **FR 101** Elementary French I (BICS)
  - (3) ENG 101 English Composition I
  - (3) FL 111A or FL 111E Intro to Foreign Studies (BHUM)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) ACS 101 Public Speaking
  - 16 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **FR 102** Elementary French II (EGC)
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (3) QR 101 Quantitative Reasoning
  - (3) Breadth Social Science (BSS)
  - 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) **FR 201** Intermediate French I (BICS)
  - (3) Breadth Life Science (BLS)
  - (3) Elective
  - (3) Health Experience (EH)
  - (3) Lab Experience (EL)
  - 16 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) **FR 202** Intermediate French II
- (3) Breadth Physical Science (BPS)
- (3) Elective
- (3) Experience United States Cultures (EUSC)

(3) Elective  
16 - Total Credits

---

### Year 3 (Fall Semester)

(4) FR 301 Advanced French  
(3) FR 351 Survey of French Literature (BHUM)  
(3) Interdisciplinary Studies (IS)  
(3) Elective  
13 - Total Credits

---

### Year 3 (Spring Semester)

(3) FR 352 Survey of French Literature  
(3) French Elective (300-400 level)  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

---

### Year 4 (Fall Semester)

(3) FR 400 Senior Essay  
(3) French Elective (300-400 level)  
(3) French Elective (300-400 level)  
(3) Elective  
(2) Elective  
14 - Total Credits

---

### Year 4 (Spring Semester)

(2) FR 400B Senior Essay  
(3) French Elective (300-400 level)  
(3) Elective  
(3) Elective  
(3) Elective  
14 - Total Credits

---

**Total Hours 120**

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree

from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Arts in Foreign Languages and Literature, German

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#### Year 1 (Fall Semester)

(4) **GER 101** Elementary German I (BICS)  
(3) ENG 101 English Composition I  
(3) FL 111B Intro to Foreign Studies (BHUM)  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) ACS 101 Public Speaking  
16 - Total Credits

---

#### Year 1 (Spring Semester)

(4) **GER 102** Elementary German II (EGC)  
(3) ENG 102 English Composition II  
(3) QR 101 Quantitative Reasoning  
(3) Experience United States Cultures (EUSC)  
(3) Health Experience (EH)  
16 - Total Credits

---

#### Year 2 (Fall Semester)

(4) **GER 201** Intermediate German I (BICS)  
(3) Breadth Life Science (BLS)  
(3) Breadth Social Science (BSS)  
(3) Lab Experience (EL)  
(3) RA 101 Reasoning & Argumentation  
16 - Total Credits

---

#### Year 2 (Spring Semester)

(4) **GER 202** Intermediate German II  
(3) Breadth Physical Science (BPS)  
(3) Elective  
(3) Elective  
(2) Elective  
15 - Total Credits

---

#### Year 3 (Fall Semester)

(4) GER 301 Advanced German

(3) GER 351 Survey of German Literature  
(3) Interdisciplinary Studies (IS)  
(3) Elective  
13 - Total Credits

---

### Year 3 (Spring Semester)

(3) GER 352 Survey of German Literature  
(3) German Elective (300-400 level)  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

---

### Year 4 (Fall Semester)

(2) GER 400 Senior Essay  
(3) German Elective (300-400 level)  
(3) Elective  
(4) Elective  
(3) Elective  
15 - Total Credits

---

### Year 4 (Spring Semester)

(2) GER 400B Senior Essay  
(3) German Elective (300-400 level)  
(3) German Elective (300-400 level)  
(3) Elective  
(3) Elective  
14 - Total Credits

---

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Arts in

## Foreign Languages and Literature, Spanish

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### Year 1 (Fall Semester)

(4) **SPAN 101** Elementary Spanish I (BICS)  
(3) ENG 101 English Composition I  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) Breadth Humanities (BHUM)  
(3) ACS 101 Public Speaking  
16 - Total Credits

---

### Year 1 (Spring Semester)

(4) **SPAN 102** Elementary Spanish II (EGC)  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning & Argumentation  
(3) QR 101 Quantitative Reasoning  
(3) Breadth Physical Science (BPS)  
16 - Total Credits

---

### Year 2 (Fall Semester)

(4) **SPAN 201** Intermediate Spanish I (BICS)  
(3) Breadth Life Science (BLS)  
(3) Breadth Social Science (BSS)  
(3) Lab Experience (EL)  
(3) United States Cultures (EUSC)  
16 - Total Credits

---

### Year 2 (Spring Semester)

(4) **SPAN 202** Intermediate Spanish II  
(3) Health Experience (EH)  
(3) Elective  
(3) Elective  
(3) Elective  
16 - Total Credits

---

### Year 3 (Fall Semester)

(4) SPAN 301 Advanced Spanish  
(3) Spanish Elective (300-400 level)  
(3) Interdisciplinary Studies (IS)  
(3) Elective  
13 - Total Credits

---

### Year 3 (Spring Semester)

- (4) SPAN 302 Advanced Spanish
  - (3) Spanish Elective (300-400 level)
  - (3) Spanish Elective (300-400 level)
  - (5) Elective
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) SPAN 400 Senior Essay
  - (3) SPAN Elective (300-400 level)
  - (3) SPAN Elective (400 level)
  - (3) Elective
  - (3) Elective
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) SPAN Elective (300-400 level)
  - (4) Elective
  - (3) Elective
  - (3) Elective
- 13 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### 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 (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 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. Scheduling required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. In addition, a "B" (3.0 average or higher) in the major is required in order to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB section of this catalog](#), on the [SEHHB website](#), and by making an appointment with an SEHHB advisor.

### Sample Curriculum for the Bachelor of Arts in Foreign Languages and Literature, French Professional Educator Licensure (K-12)

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#### Year 1 (Fall Semester)

- (4) **FR 201** Intermediate French I (BICS)
  - (3) ENG 101 English Composition I
  - (3) FL 111A or FL 111E Intro to Foreign Studies (BHUM)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (4) **FR 202** Intermediate French II
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (3) QR 101 Quantitative Reasoning
  - (3) Breadth Life Science (BLS)
- 16 - Total Credits
-

## Year 2 (Fall Semester)

- (4) FR 301 Advanced French
  - (3) French Elective (300-400 level)
  - (3) Health Experience (EH)
  - (3) Breadth Social Science (BSS)/Experience Global Culture (EGC)
  - (3) Breadth Physical Science with a Lab (BPS, EL)
  - 16 - Total Credits
- 

## Year 2 (Spring Semester)

- (3) French Elective (300-400 level)
- (3) French Elective (300-400 level)
- (3) General Elective
- (3) General Elective
- 12 - Total Credits

Simulated Oral Proficiency Interview (SOPI)

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## Year 3 (Fall Semester)

- (3) FR 351 Survey of French Literature (BHUM)
- (2) FR 400A Senior Essay
- (3) CIED 310 Planning for Diverse Learners (EUSC)
- (3) CIED 312 Language and Communication
- (3) IT 300 Digital Learning and Communication
- (1) CIED 302 Field Experience II
- (3) Interdisciplinary Studies (IS)
- 18 - Total Credits

Oral Proficiency Interview (OPI)

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## Year 3 (Spring Semester)

- (3) FR 352 Survey of French Literature
- (2) FR 400B Senior Essay
- (3) ENG 468 Second Language Acquisition
- (3) SPE 400 - The Exceptional Child
- (3) CIED 323 Adolescent Content Literacy
- (1) CIED 303 Field Experience III
- 15 - Total Credits

Student Teacher Screening

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## Year 4 (Fall Semester)

- (3) French Elective (300-400 level)

- (3) FL 486 Methods for Teaching Foreign Language K-12
  - (3) CIED 311 Differentiated Instruction
  - (3) CIED 313 Introduction to Assessment
  - (3) CIED 314 Learning Environments
  - (1) CIED 304 Field Experience IV
  - 16 - Total Credits
- 

## Year 4 (Spring Semester)

- (2) CIED 456 9-12 Seminar
  - (10) CIED 455G 9-12 Student Teaching - Foreign Language
  - 14 - Total Credits
- 

**Total Hours 124**

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## Sample Curriculum for the Bachelor of Arts in Foreign Languages and Literature, German Professional Educator Licensure (K-12)

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### Year 1 (Fall Semester)

- (4) **GER 201** Intermediate German I (BICS)
  - (3) ENG 101 English Composition I
  - (3) FL 111B Intro to Foreign Studies (BHUM)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (4) **GER 202** Intermediate German II
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (3) QR 101 Quantitative Reasoning
  - (3) Breadth Life Science (BLS)
  - 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) GER 301 Advanced German
- (3) German Elective (300-400 level)
- (3) Health Experience (EH)
- (3) Breadth Social Science/Experience Global Cultures (BSS, EGC)

(3) Breadth Physical Science with a Lab (BPS, EL)  
16 - Total Credits

Simulated Oral Proficiency Interview (SOPI)

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### **Year 2 (Spring Semester)**

(3) German Elective (300-400 level)  
(3) German Elective (300-400 level)  
(3) General Elective  
(3) General Elective  
12 - Total Credits

---

### **Year 3 (Fall Semester)**

(3) German Elective (300-400 level)  
(3) CIED 310 Planning for Diverse Learners (EUSC)  
(3) CIED 312 Language and Communication (BICS)  
(3) IT 300 Digital Learning and Communication  
(1) CIED 302 Field Experience II  
(3) Interdisciplinary Studies (IS)  
16 - Total Credits

Oral Proficiency Interview (OPI)

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### **Year 3 (Spring Semester)**

(3) German Elective (300-400 level)  
(3) German Elective (300-400 level)  
(3) ENG 468 Second Language Acquisition  
(3) SPE 400 The Exceptional Child  
(3) CIED 323 Adolescent Content Literacy  
(1) CIED 303 Field Experience III  
16 - Total Credits

Student Teacher Screening

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### **Year 4 (Fall Semester)**

(2) GER 400A Senior Essay  
(3) FL 486 Methods for Teaching Foreign Languages K-12  
(3) CIED 311 Differentiated Instruction  
(3) CIED 313 Introduction to Assessment  
(3) CIED 314 Learning Environments  
(1) CIED 304 Field Experience IV  
15 - Total Credits

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### **Year 4 (Spring Semester)**

(2) GER 400B Senior Essay  
(2) CIED 456 9-12 Seminar  
(10) CIED 455G 9-12 Student Teaching - Foreign Language  
14 - Total Credits

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**Total Hours 122**

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### **Sample Curriculum for the Bachelor of Arts in Foreign Languages and Literature, Spanish Professional Educator Licensure (K-12)**

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#### **Year 1 (Fall Semester)**

(4) **SPAN 201** Intermediate Spanish I (BICS)  
(3) ENG 101 English Composition I  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) FL 111C Introduction to Foreign Studies Spanish (BHUM)  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

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#### **Year 1 (Spring Semester)**

(4) **SPAN 202** Intermediate Spanish II  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning & Argumentation  
(3) QR 101 Quantitative Reasoning  
(3) Breadth Life Science (BLS)  
16 - Total Credits

---

#### **Year 2 (Fall Semester)**

(4/3) SPAN 301 or 303 Advanced Spanish  
(4) SPAN 302 Advanced Spanish  
(3) Health Experience (EH)  
(3) Breadth Social Science/Global Cultures Experience (BSS, EGC)  
(3) Breadth Physical Science with a Lab (BPS, EL)  
16-17 - Total Credits

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#### **Year 2 (Spring Semester)**

(3) Spanish Elective (300-400 level)

- (3) Spanish Elective (300-400 level)
  - (3) Spanish Elective (300-400 level)
  - (3) General Elective
- 12 - Total Credits

Simulated Oral Proficiency Interview (SOPI)

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### Year 3 (Fall Semester)

- (3) Spanish Elective (300-400 level)
  - (3) CIED 310 Planning for Diverse Learners (EUSC)
  - (3) CIED 312 Language and Communication (BICS)
  - (3) IT 300 Digital Learning and Communication
  - (1) CIED 302 Field Experience II
  - (3) Interdisciplinary Studies (IS)
- 16 - Total Credits

Oral Proficiency Interview (OPI)

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### Year 3 (Spring Semester)

- (4) SPAN 308 Spanish Linguistics
  - (3) Spanish Elective 400-level
  - (3) ENG 468 Second Language Acquisition
  - (3) SPE 400 The Exceptional Child
  - (3) CIED 323 Adolescent Content Literacy
  - (1) Field Experience III
- 17 - Total Credits

Student Teacher Screening

---

### Year 4 (Fall Semester)

- (3) SPAN 400 Senior Essay
  - (3) FL 486 Methods for Teaching Foreign Languages K-12
  - (3) CIED 311 Differentiated Instruction
  - (3) CIED 313 Introduction to Assessment
  - (3) CIED 314 Learning Environments
  - (1) CIED 304 Field Experience IV
- 16 - Total Credits
- 

### Year 4 (Spring Semester)

- (2) CIED 456 9-12 Seminar
  - (10) CIED 455G 9-12 Student Teaching-Foreign Languages
- 12 - Total Credits
- 

**Total Hours 122-123**

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.



# Geography

## Admission Requirements

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 GPA of at least 2.0 in courses completed at SIUE

## 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 about transfer, please visit [siue.edu/transfer](http://siue.edu/transfer).

## Degree Requirements

### Geography Core Requirements (36 hours)

- GEOG 201 - World Regions
- GEOG 205 - Human Geography
- GEOG 210 - Physical Geography
- 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, 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, 431, 432, 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 Education Licensure for Grades 9-12

Geography majors who intend to teach at the secondary level may complete the Bachelor of Science 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 \(see the sample curriculum\)](#).

Admission to a professional education program is a joint decision made by the academic discipline in the College of Arts and Science (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 any student desiring teacher licensure meet with an advisor in the [School of Education Health and Human Behavior Student Services](#) for information about admission requirement to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All geography courses must be at a grade of 3.0 or

higher to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB website](#), and by making an appointment with an SEHHB advisor.

## Retention

Students must maintain a cumulative GPA of at least 2.0 to remain in good academic standing. Students whose cumulative GPA 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.

## Degrees Available at SIUE

- Bachelor of Arts, Geography
- Bachelor of Science, Geography
- [Professional Educator Licensure \(9-12\) program](#)

## 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 four-year institution
  - A minimum cumulative GPA 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.

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## Minor in Geography (for non-geography majors)

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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 nine credits. The remaining nine 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 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 nine credit hours of required coursework and at least nine 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: Nine 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: Six 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 431, GEOG 432, 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 six hours of core required courses in meteorology and climatology; six credits in advanced topics in meteorology and climatology; and six 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 courses 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.

### Sample Curriculum for the Bachelor of Arts in Geography

#### Year 1 (Fall Semester)

- (3) ENG 101 Composition
  - (3) **ESCI 111** Intro to Physical Geology & Geography (BPS, EL) (recommended)
  - (4) Foreign Language 101 (BICS)
  - (3) ACS 101 Public Speaking
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) **GEOG 201** World Regions (BSS, EGC)
  - (3) ENG 102 Composition
  - (4) Foreign Language 102 (EGC)
  - (3) QR 101, MATH 150 or Higher
  - (3) RA 101 or PHIL 212
  - 16 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) **GEOG 210** Physical Geography (BPS)
  - (3) **GEOG 205** Human Geography (BSS, EL)
  - (3) Breadth Humanities (BHUM)
  - (3) Minor or AOS
  - (2) Health Experience (EH)
  - 14 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) Human Geography Requirement
  - (3) GEOG 321 Quantitative Techniques (BICS, EL)
  - (3) Fine & Performing Arts or Humanities
  - (3) Minor or AOS
  - (3) Minor or AOS
  - 15 - Total Credits
- 

#### Year 3 (Fall Semester)

- (3) GEOG 320 Cartography
  - (3) Human Geography Requirement
  - (3) Fine & Performing Arts or Humanities
  - (3) Minor or AOS
  - (3) Experience United States Cultures (EUSC)
  - 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) Physical Geography Requirement
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor or AOS
  - (3) Minor or AOS
  - (3) Fine & Performing Arts or Humanities
  - 15 - Total Credits
- 

#### Year 4 (Fall Semester)

- (3) Physical Geography Requirement
  - (3) GEOG 499 Senior Assignment
  - (3) Breadth Life Science (BLS)
  - (3) Fine & Performing Arts or Humanities
  - (2) Elective
  - 14 - Total Credits
- 

#### Year 4 (Spring Semester)

- (3) Geography Techniques Requirement
  - (3) Regional Geography Requirement
  - (8) Electives
  - 14 - Total Credits
- 

### Total Hours 120

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### Sample Curriculum for the Bachelor of Science

## in Geography

### Year 1 (Fall Semester)

- (3) ENG 101 Composition
  - (3) **ESCI 111** Intro to Physical Geology & Geography (BPS, EL) (recommended)
  - (3) RA 101 Reasoning & Argumentation
  - (3) ACS 101 Public Speaking
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **GEOG 201** World Regions (BSS, EGC)
  - (3) ENG 102 Composition
  - (3) Breadth Life Science (BLS)
  - (3) MATH 120, 125, 130 or 150 (BPS)
  - (3) QR 101, MATH 150 or Higher
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **GEOG 210** Physical Geography (BPS)
  - (3) Breadth Humanities (BHUM)
  - (2) Health Experience (EH)
  - (3) Elective
  - (3) Elective
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **GEOG 205** Human Geography (BSS, EL)
  - (3) GEOG 321 Quantitative Techniques (BICS, EL)
  - (3) Experience United States Cultures (EUSC)
  - (3) Minor or AOS
  - (3) Minor or AOS
- 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) GEOG 320 Cartography
  - (3) Human Geography Requirement
  - (3) Minor or AOS
  - (3) Elective
  - (3) Elective
- 15 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) Physical Geography Requirement
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor or AOS
  - (3) Minor or AOS
  - (3) Elective
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) Human Geography Requirement
  - (3) Physical Geography Requirement
  - (3) GEOG 499 Senior Assignment
  - (3) Minor or AOS
  - (3) Elective
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) Geography Techniques Requirement
  - (3) Regional Geography Requirement
  - (3) Elective
  - (3) Elective
  - (3) Elective
- 15 - Total Credits
- 

## Total Hours 120

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Requirements for students seeking Professional Educator Licensure

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Admission to a professional education program is a joint decision made by the academic discipline in the College of Arts and Science (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 any student desiring teacher licensure meet with an advisor in the [School of Education Health and Human Behavior Student Services](#) for information about admission requirement to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. **All geography courses must be at a grade of 3.0 or higher to student teach.** No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB website](#), and by making an appointment with an SEHHB advisor.

### Sample Curriculum for the Bachelor of Science\* in Geography, Professional Educator Licensure (9-12)

#### Year 1 (Fall Semester)

- (3) ENG 101 Composition
- (3) ACS 101 Public Speaking
- (3) **GEOG 201** World Regions (BSS, EGC)
- (3) SOC 111 Intro to Sociology (BSS)
- (3) POLS 112 Introduction to American National Government and Politics (BSS)
- (3) ECON 111 Principles of Macroeconomics (BSS)
- (1) FST 101 Succeeding & Engaging at SIUE
- 19 - Total Credits

#### Year 1 (Spring Semester)

- (3) ENG 102 Composition
- (3) RA 101 Reasoning & Argumentation
- (3) Breadth Fine & Performing Arts (BFPA)
- (3) **GEOG 205** Human Geography (BSS, EL)

- (3) POLS 111 Intro to Political Science (BSS)
- (3) ECON 112 Principles of Microeconomics
- 18 - Total Credits

#### Year 2 (Fall Semester)

- (3) QR 101 Quantitative Reasoning (FQR)
- (3) **GEOG 210** Physical Geography (BPS)
- (3) GEOG 300 or 405 (EH)
- (3) GEOG Regional Requirement
- (3) HIST 112a World History to 1500 (BHUM, EGC)
- (3) POLS 300, 340, 342, or 370
- 18 - Total Credits

#### Year 2 (Spring Semester)

- (3) GEOG 320 Cartography
- (3) GEOG 316, 415, or 416 (BLS)
- (3) GEOG Human Requirement
- (3) HIST 130A or 130B History of Black America
- (3) ANTH 111B Human Culture & Communication (BSS, EGC, EUSC)
- (3) HIST 112B World History, 1500 to Present (BHUM, EGC)
- 18 - Total Credits

#### Year 3 (Fall Semester)

- (3) GEOG 321 Quantitative Techniques (BICS, EL)
- (3) GEOG Physical Requirement
- (3) Interdisciplinary Studies (IS)
- (1) CIED 302 Field Experience II
- (3) CIED 310 Planning for Diverse Learners
- (3) CIED 312 Language and Communication (BICS)
- (3) IT 300 Digital Learning and Communication (BICS)
- 19 - Total Credits

#### Year 3 (Spring Semester)

- (3) GEOG 499 Senior Assignment
- (3) GEOG Techniques Requirement
- (1) CIED 303 Field Experience III
- (3) CIED 323 Adolescent Content Literacy
- (3) SPE 400 The Exceptional Child
- 13 - Total Credits

### Year 4 (Fall Semester)

(3) CIED 313 Introduction to Assessment  
(3) CIED 314 Learning Environments  
(3) CIED 311 Differentiated Instruction  
(1) CIED 304 Field Experience IV  
(3) HIST 323 Social Science Pedagogy  
13 - Total Credits

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### Year 4 (Spring Semester)

(2) CIED 456 9-12 Senior Seminar  
(10) CIED 455I 9-12 Student Teaching - Geography  
15 - Total Credits

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### Total Hours 133

\* A student who wishes to earn a Bachelor of Arts in geography will complete two semesters of the same foreign language and three additional courses in fine and performing arts or humanities.

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, AAT (early childhood, special ed or math) degree from an IAI community college. Visit the [transfer credit website](#) to find course equivalency guides.

# History

## Admission Requirements

### Admission for all Majors in Historical Studies

- Must pass ENG 102

### Requirements for Students Seeking Professional Educator Licensure

Students who intend to teach at the secondary level may complete the bachelor's degree with a major in history. The major constitutes the teaching field of concentration. In addition, students pursuing teacher licensure must complete the strong minor in [social science education \(see the sample curriculum\)](#).

Admission to a program in Professional Education Licensure is a joint decision made by the academic discipline in the College of Arts and Sciences (CAS) and the School of Education, Health, and Human Behavior (SEHNB). Therefore, as soon as they know they would like to pursue this option, it is essential that any student desiring teacher licensure meet with an advisor in the SEHNB for information about admission requirements to courses leading to professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor and the SEHNB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All history courses must be at a grade of 3.0 or higher to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHNB section of this catalog](#), the [SEHNB website](#), and by making an appointment with an SEHNB advisor.

## Transfer Credits for all Historical Studies

### Majors:

- Must have a 2.0 overall GPA
- Courses are accepted for major or minor credit pending similarity to historical studies offerings and articulation agreements with the student's prior institution.

## Degree Requirements

### Bachelor of Arts or Bachelor of Science in Historical Studies Requirements

Complete all general education and specific program requirements.

Complete four HIST survey courses, 101-201 with a minimum grade of C.

- Two must be from the Western Civilization or World History surveys
- Two must be from the United States History surveys

Students preparing for Professional Education Licensure (PEL) to teach history or social science must select HIST 112A and 112B.

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 Social Science Pedagogy, HIST 323.

Complete HIST 301 (Historical Methods) and HIST 401 (Historical Research) 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 Studies 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 United States History surveys from the following: HIST 130A, 130B, 200, 201.
- One Western Civilization 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 Methods (301)
- Historical Research (401)

### Requirements for students seeking Professional Education Licensure

Students who intend to teach at the secondary level may complete the bachelor's degree with a major in history. The major constitutes the teaching field of concentration. In addition, students pursuing teacher licensure must complete the strong minor in [social science education \(see the sample curriculum\)](#).

Admission to a professional education program is a joint decision made by the academic discipline in the College of Arts and Science (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 any student desiring teacher licensure meet with an advisor in the [School of Education Health and Human Behavior Student Services](#) for information about admission requirement to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student, CAS advisor, department faculty mentor, and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All history courses must be at a grade of 3.0 or

higher to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB section of this catalog](#), on the [SEHHB website](#), and by making an appointment with an SEHHB advisor.

### Retention

- Must maintain a 2.0 GPA
- Must maintain a 2.0 GPA in all historical studies courses

### Degrees Available at SIUE

- Bachelor of Arts, History
- Bachelor of Science, History
  - Specialization is available in the following:
    - [Applied Historical Methods](#)
- [Professional Educator Licensure \(9-12\) program](#)

### 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 four-year institution
  - A minimum cumulative GPA of 2.0
  - Bachelor of Arts only: One year of the same foreign language and six 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.

### History Minor Requirements

- Three survey courses from HIST 101-201

At least one survey course must be from the Western

Civilization ( HIST 111A, B, C) or World History (HIST 112A, B) sequences, and one must be from the United States History sequences (HIST 130A, 130B, 200, 201)

- Four upper-level courses between HIST 300-499.

At least three credit hours in HIST 300-499 must be in an area outside of Europe and the United States. HIST 300 Special Topics courses can be taken for a maximum of six hours, HIST 400 Special Topics courses can be taken for a maximum of nine hours.

No minors may take HIST 301 (Historical Methods) or 401 (Historical Research).

### **Social Science Education Minor for Historical Studies Majors**

Students pursuing the BA or BS in historical studies who are also seeking Professional Educator Licensure must complete the social science minor to qualify in the state of Illinois for Social Science Certification, since Illinois licensure is certified only in social science. All of the following required courses must be completed for the social science minor, with a grade of "C" or better:

- 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 - Introduction to Political Science
- POLS 112 - Introduction to American National Government & Politics
- SOC 111 - Introduction to Sociology

In addition, three hours of the following must be completed, with a grade of "C" or better:

- POLS 300 - Introduction to Political Analysis
- POLS 340 - The Presidency
- POLS 342 - Issues in American Public Policy
- POLS 370 - Introduction to International Relations

### **Sample Curriculum for the Bachelor of Arts in History**

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### **Year 1 Fall Semester**

- (3) **HIST Survey Level** (Western Civ. or World) (BSS)
  - (3) ENG 101 English Composition I
  - (4) **Foreign Language 101** (BICS)
  - (3) ACS 101 Public Speaking
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### **Year 1 Spring Semester**

- (3) **HIST Survey Level** (Western Civ. or World)
  - (3) ENG 102 English Composition II
  - (4) **Foreign Language 102** (EGC)
  - (3) Breadth Humanities (BHUM)
  - (3) Breadth Life Science (BLS) with a lab (EL)
- 16 - Total Credits
- 

### **Year 2 Fall Semester**

- (3) **HIST Survey Level (US)** (EUSC)
  - (4) **Foreign Language 201** (BICS)
  - (3) RA 101 Reasoning & Argumentation
  - (3) QR 101, MATH 150 or Higher
  - (3) Breadth Physical Science (BPS)
- 16 - Total Credits
- 

### **Year 2 Spring Semester**

- (3) **HIST Survey Level** (US)
  - (4) **Foreign Language 202** (BICS)
  - (3) Minor
  - (3) Fine & Performing Arts or Humanities
  - (3) Minor
- 16 - Total Credits
- 

### **Year 3 Fall Semester**

- (3) HIST 300-400 level Elective
  - (3) HIST 300-400 level Elective
  - (4) Upper-level foreign language course (recommended)
  - (3) Fine & Performing Arts or Humanities
  - (3) Minor
- 16 - Total Credits
-

### Year 3 Spring Semester

(3) HIST 300-400 level Elective  
(3) HIST 300-400 level Elective (Non-Western)  
(3) Interdisciplinary Studies (IS)  
(3) Upper-level foreign language course  
(recommended)  
(3) Minor  
15 - Total Credits

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### Year 4 Fall Semester

(3) HIST 301 Historical Methods  
(3) HIST 300-400 level Elective  
(4) Upper-level foreign language course  
(recommended)  
(2) Minor  
12 - Total Credits

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### Year 4 Spring Semester

(3) HIST 401 Historical Research  
(3) HIST 300-400 level Elective  
(4) Upper-level foreign language course  
(recommended)  
(2) Health Experience (EH)  
12 - Total Credits

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**Total Hours 120**

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### Sample Curriculum for the Bachelor of Science in History

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#### Year 1 Fall Semester

(3) **HIST Survey Level** (Western Civ. or World) (BSS)  
(3) ENG 101 English Composition I  
(3) RA 101 Reasoning & Argumentation  
(3) ACS 101 Public Speaking  
(3) Breadth Fine & Performing Arts (BFPA)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 Spring Semester

(3) **HIST Survey Level** (Western Civ. or World)

(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or Higher  
(3) Breadth Humanities (BHUM)  
(3) Experience United States Culture (EUSC)  
15 - Total Credits

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#### Year 2 Fall Semester

(3) **HIST Survey Level (US)**  
(3) Breadth Life Science (BLS)  
(3) Health Experience (EH)  
(3) Minor  
(3) Life, Physical or Social Science with a lab (EL)  
15 - Total Credits

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#### Year 2 Spring Semester

(3) **HIST Survey Level (US)**  
(3) Breadth Physical Science (BPS)  
(3) Life, Physical or Social Science  
(3) Minor  
(3) Breadth Information & Communication in Society (BICS)  
15 - Total Credits

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#### Year 3 Fall Semester

(3) HIST 300-400 level Elective  
(3) HIST 300-400 level Elective  
(3) Life, Physical or Social Science with a lab (EL)  
(3) Life, Physical or Social Science/Experience  
Global Cultures (EGC)  
(3) Minor  
15 - Total Credits

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#### Year 3 Spring Semester

(3) HIST 300-400 level Elective  
(3) HIST 300-400 level Elective  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
(3) Elective  
15 - Total Credits

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#### Year 4 Fall Semester

(3) HIST 301 Historical Methods

(3) HIST 300-400 level Elective  
(3) Minor  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 4 Spring Semester

(3) HIST 401 Historical Research  
(3) HIST 300-400 level Elective  
(3) Minor  
(3) Minor/Elective  
12 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in History, Applied Historical Methods

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#### Year 1 Fall Semester

(3) HIST Survey Level (Western Civ. or World) (BSS)  
(3) ENG 101 English Composition I  
(3) RA 101 Reasoning & Argumentation  
(3) ACS 101 Public Speaking  
(3) Breadth Fine & Performing Arts (BFPA)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 Spring Semester

(3) HIST 130, 200 or 201 (US)  
(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or Higher  
(3) Breadth Humanities (BHUM)  
(3) Experience United States Culture (EUSC)

15 - Total Credits

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#### Year 2 Fall Semester

(3) HIST 130, HIST 200 or 201 (US)  
(3) Breadth Life Science (BLS)  
(3) Health Experience (EH)  
(3) Minor  
(4) Life, Physical or Social Science with a lab (EL)  
16 - Total Credits

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#### Year 2 Spring Semester

(3) HIST 310 Careers in History  
(3) Breadth Physical Science (BPS)  
(3) Life, Physical or Social Science  
(3) Minor  
(3) Breadth Information & Communication in Society (BICS)  
15 - Total Credits

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#### Year 3 Fall Semester

(3) HIST 300-400 level Elective  
(3) HIST 300-400 level Elective  
(3) Life, Physical or Social Science with a lab (EL)  
(3) Life, Physical or Social Science/Experience  
Global Cultures (EGC)  
(3) Minor  
15 - Total Credits

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#### Year 3 Spring Semester

(3) HIST 300-400 level Elective  
(3) HIST 300-400 level Elective  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
(3) Elective  
15 - Total Credits

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#### Year 4 Fall Semester

(3) HIST 301 Historical Methods  
(3) HIST 300-400 level Elective in skills or applied historical methods  
(3) Minor  
(3) Elective

(4) Elective  
16 - Total Credits

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### **Year 4 Spring Semester**

(3) HIST 401 Historical Research  
(3) HIST 490 Internship  
(3) Minor  
(3) Minor/Elective  
12 - Total Credits

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### **Total Hours 120**

### **Sample Curriculum for the Bachelor of Science in History Professional Educator Licensure (9-12) option**

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#### **Year 1 Fall Semester**

(3) HIST 112A World History (BHUM, EGC)  
(3) ENG 101 English Composition I  
(3) SOC 111 Introduction to Sociology (BSS)  
(3) ACS 101 Public Speaking  
(3) POLS 112 American National Government (BSS, EUSC)  
(3) GEOG 205 Human Geography (BSS, EGC, EL)  
(1) FST 101 Succeeding & Engaging at SIUE  
19 - Total Credits

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#### **Year 1 Spring Semester**

(3) HIST 112B World History (BHUM, EGC)  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning & Argumentation  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) Breadth Life Science (BLS)  
(3) POLS 111 Intro to Political Science (BSS)  
18 - Total Credits

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#### **Year 2 Fall Semester**

(3) HIST Survey Level (US)  
(3) GEOG 201 World Regions (BSS, EGC)  
(3) POLS 300, POLS 340, POLS 342, or POLS 370  
(3) ECON 111 Principles of Macroeconomics  
(0) Health Experience (EH)  
(3) QR 101, MATH 150 or Higher  
15 - Total Credits

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#### **Year 2 Spring Semester**

(3) HIST Survey Level (US)  
(3) ANTH 111b Human Culture & Comm (BSS, EGC, EUSC)  
(3) HIST 300/400 Level Elective  
(3) ECON 112 Principles of Microeconomics (BSS)  
(3) GEOG 210 Physical Geography (BPS, EL)  
(3) HIST 300/400 Level Elective  
18 - Total Credits

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#### **Year 3 Fall Semester**

(3) HIST 300-400 level (Non-Western History)  
(1) CIED 302 Field Experience II  
(3) HIST 400 level Elective  
(3) CIED 310 Planning for Diverse Learners  
(3) CIED 312 Language and Communication (BICS)  
(3) IT 300 Digital Learning and Communication  
(3) HIST 301 Historical Methods  
19 - Total Credits

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#### **Year 3 Spring Semester**

(3) HIST 401 Historical Research  
(3) HIST 400 Level Elective  
(1) CIED 303 Field Experience III  
(3) CIED 323 Adolescent Content Literacy  
(3) Interdisciplinary Studies (IS)  
(3) SPE 400 The Exceptional Child  
16 - Total Credits

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#### **Year 4 Fall Semester**

(3) CIED 313 Introduction to Assessment  
(3) CIED 314 Learning Environments  
(3) CIED 311 Differentiated Instruction  
(1) CIED 304 Field Experience IV  
(3) HIST 323 Social Science Pedagogy  
13 - Total Credits

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#### **Year 4 Spring Semester**

(2) CI 456 9-12 Seminar  
(10) CIED 455 Student Teaching  
12 - Total Credits

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**Total Hours 130**

# Industrial Engineering

## Admission Requirements

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 equivalent) with a grade of C or better
- Attain a cumulative GPA of at least 2.0 on a 4.0 scale

## Degree Requirements

### Bachelor of Science Industrial Engineering

#### Breadth-Physical Science Courses

- CHEM 131, 135+
- MATH 152, 250, 305, 321
- PHYS 141, 151L, 142, 152L

+ CHEM 125A may be substituted

#### Engineering and Computer Science Courses

- CE 204, 240, 242, 145
- ECE 210
- IE 106, 335, 345, 370, 375, 415, 451, 465, 468, 470, 476, 483, 484, 490
- IE Electives\* (9 hours)

#### Breadth

- Fine and Performing Arts (3 hours)
- Life Science (3 hours)

#### Breadth Info and 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 or 103
- 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

### 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 a specialization in manufacturing engineering:

- IE 462 Six Sigma, Quality and Process Improvement
- IE 466 Engineering Metrology
- IE 475 CAD/CAM/CAE
- IE 477 Computer Integrated Manufacturing (cross listed with MRE 477)
- IE 478 Industrial Robotics
- IE 488 Lean Production Systems
- IE 492 Total Quality Management
- Other substitute electives are subject to approval by the chair/director of industrial engineering

### 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 or 103; with a GPA 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 GPA 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 GPA of 2.0
- Maintain a term GPA above 1.0 in any term
- Maintain a cumulative GPA of at least 2.0 in all mathematics and science courses
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering
- Maintain a cumulative GPA 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.

## Degrees Available at SIUE

- Bachelor of Science, Industrial Engineering (specialization available in the following)
  - Manufacturing Engineering

## Graduation Requirements

Degree requirements include the following:

- A cumulative GPA of 2.0 or higher on a 4.0 scale for engineering courses
- A cumulative GPA of 2.0 or higher on a 4.0 scale for industrial engineering courses numbered above 299
- Completion of all departmental and University requirements
- Completion of the Senior Assignment in IE 490, Integrated Engineering Design
- 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 GPA of 2.0 or higher is required for industrial engineering courses.

## Sample Curriculum for the Bachelor of Science in Industrial Engineering

### Year 1 (Fall Semester)

- (3) IE 106 Engineering Problem Solving
  - (4) **CHEM 131** Engineering Chemistry (BPS)
  - (1) **CHEM 135** Engineering Chemistry Lab (EL)
  - (3) ENG 101 English Composition I
  - (5) **MATH 150** Calculus I (QR)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics Lab I (EL)
  - (3) ACS 103 Interpersonal Communications (EUSC)
- 15 - Total Credits

### Year 2 (Fall Semester)

- (3) **CE 204** Engineering Graphics & CAD



- (3) **CE 240** Statics
  - (3) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** University Physics II (BPS)
  - (1) **PHYS 152L** University Physics Lab II (EL)
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **CE 242** Mechanics of Solids
  - (3) **CS 145** Introduction to Computing for Engineers
  - (3) **ECE 210** Introduction to Electrical Circuits
  - (3) **MATH 305** Differential Equations I or MATH 321-Linear Algebra (BPS)
  - (3) **ECON 111** Principles of Macroeconomics (BSS)
- 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) IE 335 Intro to Information Processing Systems
  - (3) IE 345 Engineering Economics Analysis
  - (3) STAT 380 Statistics for Application (BICS)
  - (3) IE 370 Manufacturing Processes
  - (3) IE 375 Three Dimensional Modeling in Product Design
  - (3) Breadth Fine & Performing Arts (BFPA)
- 18 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) IE 415 Operations Res-Deterministic Models
- (3) IE 451 Methods Design & Work Measurements
- (3) IE 465 Design & Control of Quality Systems
- (3) IE 470 Manufacturing Systems
- (3) Breadth Life Science (BLS)

- (0-2) Health Experience (EH)
- 15-17 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) IE 468 Operations Research-Simulation
  - (3) IE 476 Plantwide Process Control
  - (3) IE 483 Production Planning & Control
  - (3) IE 484 Facilities Planning
  - (3) IE Elective I
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) IE 490 Integrated Engineering Design
  - (3) IE Elective II
  - (3) IE Elective III
  - (3) PHIL 323 Engineering, Ethics, & Professionalism (BHUM)
  - (3) Interdisciplinary Studies (IS)/Experience Global Cultures (EGC)
- 15 - Total Credits
- 

### Total Hours 124-126

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**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Integrative Studies

## Admission Requirements

Applicants seeking a bachelor's degree in integrative studies are expected to meet SIUE's general undergraduate admission requirements. To be considered for admission to the integrative studies program, students must:

- Have a cumulative GPA of at least 2.0 on a 4.0 scale.
- Submit the following:
  - [Application form](#)
  - A statement detailing how the integrative studies program fits your current or revised educational, personal and professional goals.
  - A plan of study, developed in consultation with an academic advisor or faculty mentor, that illustrates an interdisciplinary nature and clearly defined focus areas. Once a plan of study is approved, modifications can be made only upon consultation with an advisor and approval by the director of the integrative studies program.

## Degree Requirements

- FST 101

### Foundations Courses

- ENG 101
- ENG 102
- QR 101
- RA 101
- ACS 101

### 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)
- Interdisciplinary Course

### Major Requirements

- INTG 300
- INTG 499

### 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

\*Experiences can double dip with other courses.

\*\*Students may take a minor in business administration according to the catalog provisions with three 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.

### Degrees Available at SIUE

- Bachelor of Arts, Integrative Studies
- Bachelor of Science, Integrative Studies

## Graduation Requirements

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- 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 four-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 GPA of 2.0
- File an Application for Graduation by the first day of the term in which you plan to graduate.

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

#### Focus Areas: Environmental Sciences and Communication Studies

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#### Year 1 (Fall Semester)

- (3) ENG 101 English Composition I
- (3) ACS 103 Interpersonal Communication (BICS, EUSC)
- (5) CHEM 121A/CHEM 125A General Chemistry I and lab (BPS, EL)
- (3) MATH 120 College Algebra
- (1) FST 101 Succeeding & Engaging at SIUE
- 15 - Total Credits

#### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
- (2) ENSC 125 Survey of Environmental Science
- (4) BIOL 150 Principles of Biology I (BLS, EL)
- (3) ACS 101 Public Speaking
- (3) RA 101 Reasoning & Argumentation
- 15 - Total Credits

#### Year 2 (Fall Semester)

- (3) ACS 213 Introduction to Public Relations
- (4) ENSC 220/ENSC 220L Principles of Environmental Sciences

- (3) Breadth Fine & Performing Arts (BFPA)
- (3) Breadth Social Science (BSS)
- (3) Elective
- 16 - Total Credits

#### Year 2 (Spring Semester)

- (3) QR 101 Quantitative Reasoning
- (3) ACS 203 Introduction to Organizational Communication
- (3) ENSC 210 Applied Research Methods
- (3) Elective
- (3) Elective
- 15 - Total Credits

#### Year 3 (Fall Semester)

- (3) ACS 3xx Elective
- (3) ENSC 340 Ecosystem Management & Sustainability
- (3) Breadth Humanities (BHUM) PHIL 321 Recommended
- (3) 3xx-4xx Elective
- (3) Elective
- 15 - Total Credits

#### Year 3 (Spring Semester)

- (3) ACS 3xx Elective
- (3) ENSC 330 Environmental Health & Waste Management (EGC)
- (3) Interdisciplinary Studies (IS)
- (3) Leadership Course<sup>+</sup>
- (3) Experience Health (EH)/Elective
- 15 - Total Credits

#### Year 4 (Fall Semester)

- (3) INTG 300 Foundations of Integrative Studies
- (3) ACS 4xx Elective
- (3) ENSC 401 or ENSC 402 Environmental Law/Policy
- (2) ENSC 499 Research
- (3) Elective
- 14 - Total Credits

## Year 4 (Spring Semester)

- (3) INTG 499 Senior Assignment
  - (3) ENSC 440 Sustainable Environmental Practices
  - (1) ENSC 499
  - (3) Elective
  - (5) Elective
- 15 - Total Credits

### Total Hours 120

Declaration into this major requires an academic plan created in consultation with the integrative studies advisor and an application submitted to the integrative studies program director.

The University requires students earning a Bachelor of Science to complete at least eight courses in the sciences (life, physical or social) (\*), including, as part of those eight courses, two courses designated as labs (EL).

Students must complete 60 hours at the 200-level or above and 40 hours at the 300-level or above.

+Select one of the following courses: PSYC 320 Introduction to Industrial/Organizational Psychology, PSYC 365 Group Dynamics and Individual Behavior, PSYC 474 Organizational Psychology, or SOC 338 Sociology at Work

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

#### Focus Areas: Environmental Sciences and Chemistry

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## Year 1 (Fall Semester)

- (3) ENG 101 English Composition I
  - (4) BIOL 150 Introduction to Biological Sciences I (BLS, EL)
  - (5) CHEM 121A/CHEM 125A General Chemistry I and lab (BPS, EL)
  - (3) MATH 125 Precalculus Mathematics with Trigonometry
- 15 - Total Credits

## Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
- (4) BIOL 151 Introduction to Biological Sciences II

- (4) CHEM 120B/CHEM124B General Chemistry II and lab
  - (3) ACS 101 Public Speaking
- 14 - Total Credits

## Year 2 (Fall Semester)

- (4) ENSC 220/ENSC 220L Principles of Environmental Sciences
  - (3) Breadth Social Sciences (BSS, EUSC)
  - (3) Breadth Humanities (BHUM, EGC)
  - (3) RA 101
  - (3) Health Experience (EH)/Elective
- 16 - Total Credits

## Year 2 (Spring Semester)

- (3) QR 101 Quantitative Reasoning
  - (4) BIOL 250 Bacteriology (BLS)
  - (2) ENSC 125 Survey of Environmental Science
  - (3) ENSC 210 Applied Research Methods
  - (3) Elective
- 15 - Total Credits

## Year 3 (Fall Semester)

- (3) Breadth Information & Communication in Society (BICS)
  - (3) Fine & Performing Arts-Breadth (BFPA)
  - (4) CHEM 480/CHEM 481 Fermentation Science I and Lab
  - (3) ENSC 340 Ecosystem Management & Sustainability
  - (3) Elective
- 16 - Total Credits

## Year 3 (Spring Semester)

- (4) CHEM 482/CHEM 483 Fermentation Science II & Lab
  - (3) ENSC 330 Environmental Health & Waste Management
  - (3) Interdisciplinary Studies (IS) course
  - (2) CHEM 396 OR ENSC 499
  - (3) Elective
- 15 - Total Credits

## Year 4 (Fall Semester)

- (3) INTG 300 Foundations of Integrative Studies
- (4) CHEM 484/CHEM 485 Fermentation Science III & Lab
- (3) CHEM 351 OR CHEM 451A
- (3) ENSC 401 OR ENSC 402 Environmental Law/Policy
- (2) CHEM 396 OR ENSC 499 Research
- 15 - Total Credits

## Year 4 (Spring Semester)

- (3) INTG 499 Integrative Studies Senior Project
- (3) Leadership Course+
- (3) ENSC 440 Sustainable Environmental Practices
- (2) CHEM 396 OR ENSC 499
- (3) Elective
- 14 - Total Credits

**Total Hours 120**

### Declaration

Declaration into this major requires an academic plan created in consultation with the integrative studies advisor and an application submitted to the integrative studies program director.

The University requires students earning a Bachelor of Science to complete at least eight courses in the sciences (life, physical or social) (\*), including, as part of those eight courses, two courses designated as labs (EL).

Students must complete 60 hours at the 200-level or above, and 40 hours at the 300-level or above.

+Select one of the following courses: PSYC 320 Introduction to Industrial/Organizational Psychology, PSYC 365 Group Dynamics and Individual Behavior, PSYC 474 Organizational Psychology, or SOC 338 Sociology at Work

## Curriculum

### Required Courses

- SOC 301** Survey of Theory
- SOC 304** Race and Ethnic Relations
- SOC 308** Gender and Society
- SOC 323** Sustainability in Organizations

- SOC 338** Sociology at Work
- SOC 423** Social Justice and Leadership
- SOC 431** Employment and Workplace Change

- PSYC 320** Introduction to Industrial/Organizational Psychology
- PSYC 340** Theories of Personality
- PSYC 365** Group Dynamics and Individual Behavior
- PSYC 411** Psychology of Sustainable Behavior
- PSYC 421** Psychological Tests and Measures
- PSYC 473** Personnel Psychology
- PSYC 474** Organizational Psychology

- INTG 300** Foundations of Integrative Studies
- IS 3XX/4XX** Interdisciplinary Course
- INTG 499** Senior Assignment

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

#### Focus Areas: Psychology and Business Administration

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## Year 1 (Fall Semester)

- (3) PSYC 111 Foundations of Psychology
- (3) ECON 112 Principles of Microeconomics (BSS)
- (3) ENG 101 English Composition I
- (3) ACS 101 Public Speaking
- (3) Breadth Information and Communication in Society (BICS)
- 15 - Total Credits

## Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
- (3) ECON 111 Principles of Macroeconomics (BSS)
- (3) PSYC 206 Social Psychology
- (3) RA 101 Reasoning and Argumentation
- (3) Elective
- 15 - Total Credits

## Year 2 (Fall Semester)

- (3) ACCT 200 Fundamentals of Financial Accounting
- (3) Breadth Fine and Performing Arts (BFPA)
- (3) Breadth Life Science (BLS)
- (3) 2xx+ Elective
- (3) Experience Health (EH)
- 15 - Total Credits

## Year 2 (Spring Semester)

- (3) QR 101 Quantitative Reasoning
- (3) PSYC 208 Cognitive Psychology
- (3) Breadth Humanities (BHUM)
- (3) Breadth Physical Science (BPS)
- (3) 2xx+ Elective
- 15 - Total Credits

## Year 3 (Fall Semester)

- (3) MGMT 330 Understanding the Business Environment
- (3) PSYC 3xx-4xx
- (3) 3xx-4xx Elective
- (3) 2xx+ Elective
- (3) Elective
- 15 - Total Credits

## Year 3 (Spring Semester)

- (3) MGMT 331 Managing Group Projects
- (3) +PSYC 365 or PSYC 320 Leadership course
- (3) 3xx-4xx Business Elective
- (3) 3xx-4xx Elective
- (3) Elective
- 15 - Total Credits

## Year 4 (Fall Semester)

- (3) INTG 300 Foundations of Integrative Studies
- (3) PSYC 4xx

- (3) 3xx-4xx Business Elective
- (3) IS 3xx Course
- (3) Elective
- 15 - Total Credits

## Year 4 (Spring Semester)

- (3) INTG 400 Integrative Studies Senior Project
- (3) Elective/Global Cultures (EGC)
- (3) Elective/US Cultures (EUSC)
- (3) 3xx-4xx Elective
- (3) PSYC 491 Research
- 15 - Total Credits

### Total Hours 120

**Notes:** Declaration into this major requires an academic plan created in consultation with the integrative studies advisor and an application submitted to the integrative studies program director.

The University requires students earning a Bachelor of Science to complete at least eight courses in the sciences (life, physical, or social) (\*), including, as a part of those eight courses, two courses designated as labs (EL).

Students must complete 60 hours at the 200-level or above and 40 hours at the 300-level or above.

+Select one of the following courses: PSYC 320 Introduction to Industrial/Organizational Psychology, PSYC 365 Group Dynamics and Individual Behavior, PSYC 474 Organizational Psychology

# International Studies

## Admission Requirements

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 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 advisor, one of the three concentration areas and a minor.

## Degree 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; six 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 firsthand exposure to international issues. The international travel study must be chosen in consultation with the international studies program director and international studies advisor.

## Core Courses (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)
- 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 - Interracial 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
- ENG 417 - Language and Ethnicity
- ENG 420 - Topics in Film Studies
- ENG 457 - Topics in Postcolonial Literature and Criticism
- ENG 474 - Bilingualism and Bilingual Education

### **Environmental Sciences**

- ENSC 111 - Survey of Environmental Studies and Sustainability
- ENSC 210 - Applied Research Methods
- ENSC 220 - Principles of Environmental Sciences
- ENSC 220L - Principles of Environmental Sciences Laboratory
- ENSC 340 - Ecosystem Management and Sustainability
- ENSC 401 - Environmental Policy
- ENSC 402 - Environmental Law
- ENSC 440 - Sustainable Environmental Practices

### **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.
- SPAN 451 - Studies in Spanish Literature: Beginnings through 17th Century

- SPAN 452 - Studies in Spanish Literature: 17th through 20th Centuries
- SPAN 453 - Seminar in Hispanic Literature
- SPAN 471 - Spanish-American Literature: Short Stories and Novel
- SPAN 491 - Cultural and Language Workshop: Spanish

## **Geography**

- GEOG 202 - Natural Resource Management and Sustainability
- GEOG 205 - Human Geography
- GEOG 300 - Population Geography
- GEOG 301 - Economic Geography
- GEOG 303 - Introduction to Urban Geography
- GEIG 314 - Climatology
- GEOG 316 - Introduction to Biogeography
- GEOG 330 - Geography of Europe
- GEOG 331 - Geography of the Commonwealth of Independent States
- GEOG 332 - Geography of Africa
- GEOG 333 - Geography of Asia
- GEOG 334 - Geography of Latin America
- GEOG 335 - Geography of North America
- GEOG 401 - Geography of Development
- GEOG 402 - Cultural Landscape
- GEOG 403 - Advanced Urban Geography
- GEOG 405 - Geography of Food
- GEOG 406 - Political Geography
- GEOG 408 - Spatial Thinking and Behavior
- GEOG 414 - Floods, Climate, and the Environment

## **History**

- HIST 112 - World History
- HIST 305A,B - Comparative Asian Civilizations
- HIST 308A - Imperium and Christianity: Western Europe
- HIST 308B - Medieval Conquests and Kingdoms
- HIST 320 - Renaissance Italy
- HIST 321 - Reformation Europe
- HIST 352A,B - History of Africa
- HIST 354A,B,C - History of Middle East
- HIST 356A,B - History of China
- HIST 358 - History of Japan
- HIST 360A,B - History of Latin America
- HIST 408 - History of England: 1509 to Present
- HIST 412 - The French Revolution
- HIST 413 - History of Modern France
- HIST 415 - Modern German History

- HIST 420 - European Social, Cultural, and Intellectual History
- HIST 422A,B,C - Late Modern Europe
- 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 424 - Topics in East European History
- HIST 427 - History of South Africa
- HIST 428 - Topics in European Women's History
- HIST 452 - Native American Women
- HIST 454 - History of the Arab-Israeli Conflict
- HIST 455 - Women & Gender in Islamic History
- HIST 460 - History of Mexico
- HIST 461 - History of Cuba
- HIST 462 - History of Brazil

## **Humanities**

- HUM 310A,B - Esperanto

## **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
- MUS 405 - World Music & Society

## **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 235 - Existentialism
- PHIL 300 - Ancient Philosophy
- PHIL 301 - Medieval Western Philosophy
- PHIL 303 - Nineteenth Century Western Philosophy

- PHIL 304 - Eighteenth Century Philosophy
- 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
- SOC 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 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 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 385 - Risk and Risk Tradeoffs
- IS 400 - History, Culture and Language of China
- IS 401 - Business and Society
- IS 403 - Global Health

### **Degrees Available at SIUE**

- Bachelor of Arts, International Studies

## 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 student plans to graduate.

### Sample Curriculum for the Bachelor of Arts in International Studies

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#### Year 1 (Fall Semester)

- (3) ENG 101 English Composition I
  - (4) **Foreign Language 101** (FL, BICS)
  - (3) ACS 101 Public Speaking (NFS)
  - (3) Breadth Social Science (BSS)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
  - (4) **Foreign Language 102** (FL, EGC)
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Humanities (BHUM)
  - (3) Breadth Life Sciences (BLS, EL)
- 16 - Total Credits
- 

#### Year 2 (Fall Semester)

- (3) INTS 200 Essentials of International Studies
  - (4) Foreign Language 201 (FL)
  - (3) **GEOG 201** World Regions
  - (3) QR 101 Quantitative Reasoning
  - (3) Breadth Physical Science (BPS)
- 16 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) POLS 370 Intro to International Relations
- (4) Foreign Language 202 (FL)
- (1) Health Experience (EH)

- (3) Experience United States Cultures (EUSC)\*
  - (3) INTS Elective\*\*
- 14 - Total Credits
- 

#### Year 3 (Fall Semester)

- (3) IS Course (one of the recommended)
  - (6) INTS Electives\*\* or International Travel Study
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) INTS Elective\*\*
  - (6) INTS Electives\*\* or International Travel Study
  - (3) Minor
  - (3) Minor
- 15 - Total Credits
- 

#### Year 4 (Fall Semester)

- (6) INTS Electives\*\* or International Travel Study
  - (3) Minor
  - (3) General Elective
  - (3) General Elective
- 15 - Total Credits
- 

#### Year 4 (Spring Semester)

- (3) INTS 499 Senior Assignment
  - (3) Minor
  - (3) General Elective
  - (3) General Elective
- 12 - Total Credits
- 

### Total Hours 120

**Notes:** 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.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS,

or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact. Visit the [transfer credit website](#) to find course equivalency guides.

# Liberal Studies

## Admission Requirements

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 GPA of at least 2.0 in courses completed at SIUE
- Meet with the program director to develop a plan of study/degree completion plan

## 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).

## Degree Requirements

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

- Minimum total number of hours required for the degree (120 hours)
- General Education (36 hours)
- Liberal Studies Breadth Area Courses (30 hours)
  - Fine and Performing Arts (BFPA or FPA) (6 hours)
  - Humanities (BHUM or HUM) (six hours)
  - Information and Communication in Society (BICS) (six hours)
  - Life Sciences and/or Physical Sciences (BLS/LS or BPS/PS) (six hours)
  - Social Sciences (BSS or SS) (six hours)
    - At least two courses from each of the five liberal studies breadth areas, consisting of a minimum of six semester hours, above and

beyond the general education requirements, must be completed with a grade of C or better.

- Elective Hours (51 hours)
  - 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.
- Senior Project (three hours)
  - 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 orients 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 six 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.

## Retention

Students must maintain a cumulative GPA of at least 2.0 to remain in good academic standing. Students whose cumulative GPA falls below 2.0 will be placed on academic warning, but will be retained in the Bachelor of Liberal Studies major. If a student ends up being placed on academic probation, the student will be removed from the academic major.

## Degrees Available at SIUE

- Bachelor of Liberal Studies

## Graduation Requirements

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- 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 four-year institution
  - A minimum cumulative GPA of 2.0
- One of the following University Intellectual Areas:
  - At least eight courses in the fine and performing arts and humanities, including, as part of those eight courses, a two-semester sequence of a foreign language (FL)
  - At least eight courses in the sciences (life, physical, or social), including, as part of those eight courses, two courses designated as labs (LAB)
- File an Application for Graduation by the first day of the term in which you plan to graduate.

### Sample Curriculum for the Bachelor of Liberal Studies

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#### Year 1 (Fall Semester)

(3) ENG 101 English Composition  
(3) ACS 101 Public Speaking  
(3) QR 101, MATH 150 or Higher  
(3) Fine & Performing Arts (BFPA)  
(3) Humanities (BHUM)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 (Spring Semester)

(3) ENG 102 English Composition  
(3) RA 101 Reasoning & Argumentation or PHIL 212 Inductive Logic  
(3) Social Science (BSS)  
(3) Life Science (BLS)  
(3) Physical Science (BPS) with a lab (EL)  
15 - Total Credits

---

#### Year 2 (Fall Semester)

(3) Information & Communication in Society (BICS)

or Foreign Language 101  
(3) LIBS Breadth Area (Fine & Performing Arts)  
(3) LIBS Breadth Area (Humanities)  
(3) LIBS Breadth Area (Info. & Comm. in Society)  
(3) LIBS Breadth Area (Social Sciences) with U.S. Cultures (EUSC)  
15 - Total Credits

---

#### Year 2 (Spring Semester)

(3) LIBS Breadth Area (Life/Physical Sciences) with Health Experience  
(3) LIBS Breadth Area (Fine & Performing Arts)  
(3) LIBS Breadth Area (Humanities)  
(3) LIBS Breadth Area (Info. & Comm. in Society) or Foreign Language 102  
(3) LIBS Breadth Area (Social Sciences) with Global Cultures  
15 - Total Credits

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#### Year 3 (Fall Semester)

(3) LIBS Breadth Area (Life or Physical Sciences)  
(3) LIBS Elective Course  
(3) LIBS Elective Course  
(3) LIBS Elective Course  
(2) LIBS Elective Course  
14 - Total Credits

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#### Year 3 (Spring Semester)

(3) LIBS Elective Course  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
15 - Total Credits

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#### Year 4 (Fall Semester)

(3) Interdisciplinary Studies (IS)  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
(3) LIBS Elective Course (Upper-Level)  
15 - Total Credits

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## Year 4 (Spring Semester)

- (3) LIBS 400 Senior Project
- (3) LIBS Elective Course (Upper-Level)
- (3) LIBS Elective Course (Upper-Level)

- (3) LIBS Elective Course (Upper-Level)
  - (3) LIBS Elective Course (Upper-Level)
- 15 - Total Credits
- 

**Total Hours 120**



# Mass Communications

## Admission Requirements

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 GPA of 2.2 at SIUE

## 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 nine 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 chair of the Department of Mass Communications 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 MC 455: 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 specializations:

Choose either 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: Advertising and Strategic Media, Journalism, 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 Specialization (15 hours)

Choose one of the following mass communications specializations:

#### 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 321 Feature Writing
- MC 323 Digital Publishing and Design
- MC 326 Advertising Copyediting & 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 grade of C or better will be accepted for credit toward completion of the mass communications major or minor.

### Retention

Mass communications majors must maintain a 2.2 overall GPA.

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 grade of C or better in a course after a second attempt, they must petition the Department of Mass Communications faculty for the opportunity to attempt the course again.

### Degrees Available at SIUE

- Bachelor of Arts, Mass Communications
  - Bachelor of Science, Mass Communications
- Specialization is required in one of the following:
- Journalism
  - Media Production
  - Advertising and Strategic Media

### 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 four-year institution
  - A minimum cumulative GPA of 2.2
  - Bachelor of Arts only: One year of the same foreign language and a minimum of six 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 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.

## **Sample Curriculum for the Bachelor of Science in Mass Communications**

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### **Year 1 (Fall Semester)**

(3) **MC 201** Mass Media in Society  
(3) ENG 101 English Composition I  
(3) ACS 101 Public Speaking  
(3) QR 101, MATH 150 or Higher  
(3) Breadth Fine & Performing Arts (BFPA)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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### **Year 1 (Spring Semester)**

(3) **MC 202** Writing for the Media  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning & Argumentation  
(3) Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)  
(3) Breadth Life Science (BLS) with a lab (EL)  
15 - Total Credits

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### **Year 2 (Fall Semester)**

(3) **MC 204** Intro to Audio & Video Production  
(3) Breadth Information & Communication in Society (BICS)  
(3) Breadth Physical Science (BPS)  
(3) Minor  
(3) Minor  
15 - Total Credits

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### **Year 2 (Spring Semester)**

(3) MC Professional Option  
(3) MC Professional Option  
(3) Breadth Social Science (BSS)  
(3) Minor  
(3) MC 327 Writing and Designing for Digital Media  
15 - Total Credits

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### **Year 3 (Fall Semester)**

(3) MC Professional Option  
(3) Life, Physical or Social Science/Experience

Global Cultures (EGC)  
(3) Minor  
(3) Minor  
(3) Life, Physical or Social Science with a lab (EL)  
15 - Total Credits

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### **Year 3 (Spring Semester)**

(3) MC Professional Option  
(3) MC Professional Option  
(3) Interdisciplinary Studies (IS)  
(3) Life, Physical or Social Science  
(3) Minor  
15 - Total Credits

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### **Year 4 (Fall Semester)**

(3) MC 401 Media Law & Policy  
(3) MC 455 Media Ethics  
(3) Life, Physical or Social Science  
(3) Life, Physical or Social Science  
(2) Health Experience (EH)  
14 - Total Credits

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### **Year 4 (Spring Semester)**

(3) MC 403 Cultural Studies in Media  
(3) MC 481 Internship/Senior Portfolio  
(3) MC Elective  
(3) Minor/Elective  
(3) Elective  
15 - Total Credits

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## **Total Hours 120**

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**Notes:** Students wishing to obtain a Bachelor of Arts may do so by taking eight courses in fine and performing arts or humanities to include two semesters of the same foreign language.

**Transfer Students:** To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor'

requirements are shown, discuss careful course selection with the academic advising contact listed.

Visit the [transfer credit website](#) to find course equivalency guides.

# Mathematics And Statistics

## Admission Requirements

For purposes of this department, the grade point average (GPA) 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 GPA.

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.

## Transfer

Courses listed in the [course equivalency guide](#) 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.

## Degree Requirements

All programs offered by the Department of Mathematics and Statistics require completion of the mathematics core, which consists of the following courses:

- Mathematics 150, 152, 250, 223, 321 and 350
- 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 five are applicable to general education requirements. (Physics 151 satisfies four 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 two 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 BA or BS in Mathematical Studies with a Specialization in Actuarial Science

- MATH  
150, 152, 223, 250, 305, 321, 340, 350, 465, 498, 499
- STAT 480A, 480B, 482, 486A
- OR 441
- CS 145
- PHYS 151

- PHYS 151L
- ECON 111, 112
- ACCT 200, 210
- FIN 320, 420

Six hours of MATH, STAT or OR electives selected from STAT 478, STAT 485, OR 442, or MATH 466

Three hours of finance electives

**Degree Requirements BA or BS Mathematical Studies with a Specialization in Applied Mathematics**

- MATH  
150, 152, 223, 250, 305, 321, 350, 451, 464, 465, 466, 498, 499
- CS 145
- PHYS 151, 151L, 152, 152L

Nine 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, 480B
- STAT 380 and two additional courses selected from MATH 421, 437, 450, OR 440, 441, 442
- STAT 480A, 480B and one additional course selected from MATH 421, 437, 450, OR 440
- MATH 421 and two additional courses selected from MATH 437, 450, OR 440, 441, 442, STAT 480A, 480B

Six hours of science or engineering electives

**Degree Requirements BA or BS in Mathematical Studies with a Specialization in Pure Mathematics**

- MATH  
150, 152, 223, 250, 320, 321, 350, 420, 421, 450, 451, 498, 499
- CS 145
- PHYS 151, 151L

Either MATH 435 or MATH 437

Three hours of MATH electives at the 400 level

12 hours of mathematics, statistics, operations research, courses from the School of Engineering, biology, chemistry, or physics at the 200 level or

above

**Degree Requirements BA or BS in Mathematical Studies with a Specialization in Statistics**

- MATH 150, 152, 223, 250, 321, 350, 498, 499
- STAT 480A, 480B, 482
- CS 145
- PHYS 151, 151L

12 hours of MATH, STAT, or OR electives (any four courses chosen from STAT 478, 481, 483, 484, 485, 486A, 488; operations research 440, 441, 442; MATH 465, 466, except that only one of operations research 440, MATH 465, 466, may be counted toward this requirement).

18 hours of supporting courses (either a minor, or nine additional hours of mathematics, statistics or operations research and nine hours of supporting courses approved by the faculty mentor.)

**Requirements for Students Seeking Professional Educator Licensure**

- MATH  
150, 152, 223, 250, 311, 320, 321, 350, 400, 411, 435, 498, 499
- CS 145
- STAT 380
- PHYS 151, 151L
- CIED  
302, 303, 304, 310, 311, 312, 313, 314, 323, 455N, 456
- IT 300
- SPE 400

3 hours of MATH, STAT or OR electives chosen from one of the options below:

- MATH 305
- One 400-level MATH, STAT or OR courses

**Retention**

In order to be retained, students must:

- Maintain a cumulative GPA of 2.0 in mathematics, statistics and operations research.
- Maintain a term GPA above 1.0 in every term.
- Not have withdrawn, received incomplete grades, or a combination of failing grades in 50% 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.

## 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 eight hours of credit in a foreign language that is neither English nor the student's native language as well as six 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 GPA 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 two years preceding graduation.
- Complete at least nine hours of credit in mathematics, statistics or operations research courses numbered 300 or above at SIUE, excluding MATH 498 and 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.

## Degrees Available at SIUE

- Bachelor of Arts, Mathematical Studies
- Bachelor of Science, Mathematical Studies (specializations available in the following)
  - [Actuarial Science](#)
  - [Applied Mathematics](#)
  - [Pure Mathematics](#)
  - [Statistics](#)
- [Professional Educator Licensure \(9-12\) program](#)

## 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 four-year institution
  - A minimum cumulative GPA of 2.0
  - Bachelor of Arts: Eight courses in fine and 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.

## 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

Nine additional hours of mathematics, statistics or operations research courses at the 200 level or above, of which six hours must be at the 300 level or above and at least three of these six hours must be from mathematics.

### Minor in Statistics

- MATH 150 - Calculus I
- MATH 152 - Calculus II

Nine 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.

### **Sample Curriculum for the Bachelor of Science in Mathematical Studies, Specialization in Actuarial Science**

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#### **Year 1 (Fall Semester)**

- (5) **MATH 150** Calculus I (FQR)
  - (3) **ECON 111** Principles of Macroeconomics (BSS)
  - (3) ENG 101 English Composition I
  - (3) RA 101 Reasoning and Argumentation
  - (1) FST 101 Succeeding & Engaging at SIUE
- 15 - Total Credits
- 

#### **Year 1 (Spring Semester)**

- (5) **MATH 152** Calculus II (BPS)
  - (3) **CS 145** Introduction to Computing I
  - (3) **ECON 112** Principles of Microeconomics (BSS)
  - (3) ACS 101 Public Speaking
  - (3) ENG 102 English Composition II
- 17 - Total Credits
- 

#### **Year 2 (Fall Semester)**

- (4) **MATH 250** Calculus III (BPS)
  - (4) MATH 223 Logic and Mathematical Reasoning
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (3) **ACCT 200** Fundamentals of Financial Accounting
- 16 - Total Credits
- 

#### **Year 2 (Spring Semester)**

- (3) MATH 305 Differential Equations
- (3) MATH 321 Linear Algebra I
- (4) MATH 350 Introduction to Analysis
- (3) **ACCT 210** Managerial Accounting
- (3) Breadth Humanities (BHUM)/Experience Global

Cultures (EGC)  
16 - Total Credits

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#### **Year 3 (Fall Semester)**

- (3) MATH 340 Theory of Interest
  - (3) STAT 480A Introduction to Mathematical Statistics
  - (3) MATH 465 Numerical Analysis
  - (3) FIN 320 Finance Management and Decision Making
  - (3) Breadth Life Science (BLS)
- 15 - Total Credits
- 

#### **Year 3 (Spring Semester)**

- (3) STAT 480B Introduction to Mathematical Statistics
  - (3) STAT 486A Actuarial Mathematics
  - (3) Finance Elective
  - (3) OR 441 Stochastic Models
  - (3) Interdisciplinary Studies (IS)/Experience US Cultures (EUSC)
- 15 - Total Credits
- 

#### **Year 4 (Fall Semester)**

- (3) MATH, STAT or OR Elective
  - (2) MATH 498 Senior Seminar
  - (3) FIN 420 Problems in Corporate Finance
  - (3) Life, Physical or Social Science with a lab (EL)
  - (3) STAT 482 Regression Analysis
- 14 - Total Credits
- 

#### **Year 4 (Spring Semester)**

- (3) Breadth Fine & Performing Arts (BFPA)
  - (3) MATH, STAT or OR Elective
  - (2) MATH 499 Senior Project
  - (1) Health Experience (EH)
  - (3) Breadth Information & Communication in Society (BICS)
- 12 - Total Credits
- 

**Total Hours 120**

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**Transfer Students:** To maximize your transfer



experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Mathematical Studies, Specialization in Applied Mathematics

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#### Year 1 (Fall Semester)

- (5) **MATH 150** Calculus I (FQR)
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) RA 101 Reasoning & Argumentation
  - (1) FST 101 Succeeding & Engaging at SIUE
- 15 - Total Credits
- 

#### Year 1 (Spring Semester)

- (5) **MATH 152** Calculus II (BPS)
  - (3) **CS 145** Introduction to Computing I
  - (3) Breadth Social Science (BSS)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) ENG 102 English Composition II
- 17 - Total Credits
- 

#### Year 2 (Fall Semester)

- (4) **MATH 250** Calculus III (BPS)
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (4) MATH 223 Logic and Mathematical Reasoning
  - (3) Breadth Life Science (BLS)
- 16 - Total Credits
- 

#### Year 2 (Spring Semester)

- (4) **PHYS 152** University Physics I (BPS)
- (1) **PHYS 152L** University Physics I Lab (EL)
- (3) MATH 305 Differential Equations
- (3) MATH 321 Linear Algebra I
- (4) MATH 350 Introduction to Analysis

15 - Total Credits

---

#### Year 3 (Fall Semester)

- (3) Electives
  - (3) MATH 451 Introduction to Complex Analysis
  - (3) MATH, STAT or OR Elective
  - (3) Science or Engineering Elective
  - (3) Experience Global Cultures (EGC)
- 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) Electives
  - (3) MATH 464 Introduction to Partial Differential Equations
  - (3) Science or Engineering Elective
  - (3) Interdisciplinary Studies (IS)/Experience US Cultures (EUSC)
  - (3) MATH, STAT or OR Elective
- 15 - Total Credits
- 

#### Year 4 (Fall Semester)

- (3) MATH 465 Numerical Analysis
  - (2) MATH 498 Senior Seminar
  - (3) MATH, STAT or OR Elective
  - (3) Health Experience (EH)
  - (3) Breadth Humanities (BHUM)
- 14 - Total Credits
- 

#### Year 4 (Spring Semester)

- (3) MATH 466 Numerical Linear Algebra with Applications
  - (2) MATH 499 Senior Project
  - (3) Breadth Information & Communication in Society (BICS)
  - (5) Electives
- 13 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois

Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### **Sample Curriculum for the Bachelor of Science in Mathematical Studies, Specialization in Pure Mathematics**

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#### **Year 1 (Fall Semester)**

- (5) **MATH 150** Calculus I (FQR)
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) RA 101 Reasoning & Argumentation
  - (3) Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 18 - Total Credits
- 

#### **Year 1 (Spring Semester)**

- (5) **MATH 152** Calculus II (BPS)
  - (3) **CS 145** Introduction to Computing I
  - (3) ENG 102 English Composition II
  - (3) Breadth Social Science (BSS)
- 14 - Total Credits
- 

#### **Year 2 (Fall Semester)**

- (4) **MATH 250** Calculus III (BPS)
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (4) MATH 223 Logic and Mathematical Reasoning
  - (3) Elective
- 16 - Total Credits
- 

#### **Year 2 (Spring Semester)**

- (3) MATH 321 Linear Algebra I
- (4) MATH 350 Introduction to Analysis
- (3) MATH, STAT, OR, Science or Engineering Elective
- (3) Breadth Information & Communication in Society (BICS)
- (3) Electives

16 - Total Credits

---

#### **Year 3 (Fall Semester)**

- (3) MATH 320 Introduction to Algebraic Structures
  - (3) MATH 421 Linear Algebra II
  - (3) MATH 450 Real Analysis I
  - (3) MATH, STAT, OR, Science or Engineering Elective
  - (3) Breadth Humanities (BHUM)/Experience Global Cultures (EGC)
- 15 - Total Credits
- 

#### **Year 3 (Spring Semester)**

- (3) MATH 420 Abstract Algebra
  - (3) MATH 437 Differential Geometry
  - (3) Life Science (BLS)
  - (3) Interdisciplinary Studies (IS)
  - (3) MATH, STAT, or OR, Science or Engineering Elective
- 15 - Total Credits
- 

#### **Year 4 (Fall Semester)**

- (3) Health Experience (EH)
  - (2) MATH 498 Senior Seminar
  - (3) MATH, STAT, or OR, Science or Engineering Elective
  - (3) MATH 451 Introduction to Complex Analysis
  - (3) Electives
- 14 - Total Credits
- 

#### **Year 4 (Spring Semester)**

- (2) MATH 499 Senior Project
  - (3) Experience United States Cultures Experience (EUSC)
  - (3) 400-level Math Elective
  - (4) Electives
- 12 - Total Credits
- 

**Total Hours 120**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements

pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Mathematical Studies, Specialization in Statistics

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#### Year 1 (Fall Semester)

- (5) **MATH 150** Calculus I (FQR)
  - (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) RA 101 Reasoning & Argumentation
  - (1) FST 101 Succeeding & Engaging at SIUE
- 15 - Total Credits
- 

#### Year 1 (Spring Semester)

- (5) **MATH 152** Calculus II
  - (3) **CS 145** Introduction to Computing I
  - (3) ENG 102 English Composition II
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Breadth Social Science (BSS)
- 17 - Total Credits
- 

#### Year 2 (Fall Semester)

- (4) **MATH 250** Calculus III (BPS)
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (4) MATH 223 Logic and Mathematical Reasoning
  - (3) Breadth Life Science (BLS) with a lab (EL)
- 16 - Total Credits
- 

#### Year 2 (Spring Semester)

- (3) MATH 321 Linear Algebra I
- (4) MATH 350 Introduction to Analysis
- (3) Supporting Courses
- (3) Information & Communication in Society (BICS)
- (3) Breadth Humanities (BHUM)/Experience Global Cultures (EGC)

16 - Total Credits

---

#### Year 3 (Fall Semester)

- (3) STAT 480A Introduction to Mathematical Statistics
  - (3) MATH, STAT or OR Elective
  - (6) Supporting Courses
  - (3) Health Experience (EH)
- 15 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) STAT 480B Introduction to Mathematical Statistics
  - (3) MATH, STAT or OR Elective
  - (6) Supporting Courses
  - (3) Elective
- 15 - Total Credits
- 

#### Year 4 (Fall Semester)

- (2) MATH 498 Senior Seminar
  - (3) MATH, STAT or OR Elective
  - (3) STAT 482 Regression Analysis
  - (3) Interdisciplinary Studies (IS)
  - (3) Supporting Course
- 14 - Total Credits
- 

#### Year 4 (Spring Semester)

- (3) MATH, STAT or OR Elective
  - (3) Experience United States Cultures Experience (EUSC)
  - (2) MATH 499 Senior Project
  - (4) Electives
- 12 - Total Credits
- 

**Total Hours 120**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college.

If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## 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 (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 any student desiring teacher licensure meet with an advisor in the [SEHHB student services](#) for information about admission requirements to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student; CAS advisor; department faculty mentor; and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All mathematics, statistics and operations research courses must be at a GPA of 2.0 or higher in order to student teach in accordance to the GPA computation for the Department of Mathematics and Statistics. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking Professional Educator Licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, 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 [SEHHB section](#) of this catalog or by making an appointment with a SEHHB advisor.

### Sample Curriculum for the Bachelor of Science in Mathematics, Professional Educator Licensure (9-12) Option

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#### Year 1 (Fall Semester)

- (5) **MATH 150** Calculus I (FQR)
- (3) ENG 101 English Composition I

- (3) ACS 101 Public Speaking
  - (3) RA 101 Reasoning & Argumentation
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 15 - Total Credits
- 

#### Year 1 (Spring Semester)

- (5) **MATH 152** Calculus II (BPS)
  - (3) **CS 145** Introduction to Computing for Engineers
  - (4) **PHYS 151** University Physics I (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - (3) ENG 102 English Composition II
  - 16 - Total Credits
- 

#### Year 2 (Fall Semester)

- (4) **MATH 250** Calculus III (BPS)
  - (4) MATH 223 Logic and Mathematical Reasoning
  - (3) MATH 321 Elementary Linear Algebra
  - (3) Breadth Social Science (BSS, EL)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (0) Health Experience (EH)
  - 17 - Total Credits
- 

#### Year 2 (Spring Semester)

- (4) MATH 350 Introduction to Analysis
  - (3) MATH, STAT or OR elective
  - (3) STAT 380 Statistics for Application (BICS, EL)
  - (3) Breadth Humanities (BHUM)/Experience Global Cultures (EGC)
  - (3) Breadth Life Science (BLS)
  - 16 - Total Credits
- 

#### Year 3 (Fall Semester)

- (3) MATH 320 Introduction to Abstract Algebra
  - (3) MATH 400 Development of Modern Mathematics
  - (1) CIED 302 Field Experience II
  - (3) CIED 310 Planning for Diverse Learners
  - (3) CIED 312 Language and Communication
  - (3) IT 300 Digital Learning and Communication
  - 16 - Total Credits
- 

#### Year 3 (Spring Semester)

- (3) MATH 435 Foundations of Geometry

(3) SPE 400 The Exceptional Child  
(3) MATH 311 The Teaching of Secondary Mathematics  
(3) Interdisciplinary Studies (IS)  
(1) CIED 303 Field Experience III  
(3) CIED 323 Adolescent Content Literacy  
16 - Total Credits

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### Year 4 (Fall Semester)

(3) MATH 411 The Teaching of Secondary Mathematics 2  
(2) MATH 498 Senior Seminar  
(1) CIED 304 Field Experience IV  
(3) CIED 313 Introduction to Assessment  
(3) CIED 314 Learning Environments  
(3) CIED 311 Differentiated Instruction  
15 - Total Credits

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### Year 4 (Spring Semester)

(2) MATH 499 Senior Project  
(2) CIED 456 9-12 Senior Seminar  
(10) CIED 455N 9-12 Student Teaching - Math  
14 - Total Credits

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### Total Hours 125

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Mechanical Engineering

## Admission Requirements

To be admitted to the Bachelor of Science program, students must:

- Complete all academic development courses required by the University.
- Complete any courses to address high school deficiencies.
- Be eligible to enroll in MATH 125, pre-calculus, or higher.
- Maintain a cumulative grade point average (GPA) of at least 2.0 on a 4.0 scale.

## Degree Requirements

### Bachelor of Science in Mechanical Engineering

#### Breadth - Physical Science Courses

- CHEM 131 (or 121A), 135 (or 125A)
- MATH 152, 250, 305
- PHYS 141, 151L, 142, 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

#### Foundations

- ENG 101, 102
- PHIL 323
- MATH 150 (FQR)
- ACS 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 204, 240, 242
- CS 145 or 140
- IE 106, 345
- ECE 210
- ME  
262, 310, 312, 315, 350, 354, 356, 356L, 370, 380, 380L, 410, 410L, 482, 484
- ME Electives (9 hours)
- Engineering Elective (3 hours)

Check the [mechanical engineering curriculum guide](#) for more details about elective courses.

### 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 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 GPA of at least 2.25 for the above courses is required for other transfer students.
- A GPA of 2.0 or better in ME 262, CE 240, CE 242 and ECE 210 (both original and repeat grades are computed in this GPA)
- A grade of C or better in ENG 101, ENG 102, ME 262 and CE 240 or their equivalent.

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 GPA of 2.0.
- Maintain a term GPA above 1.0 in any term.
- Maintain a cumulative GPA of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative GPA of at least a 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative GPA 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.

### Degrees Available at SIUE

- Bachelor of Science, Mechanical Engineering

## Graduation Requirements

Degree requirements include the following:

- A cumulative grade point average (GPA) of 2.0 or higher in engineering courses
- A cumulative GPA of 2.0 or higher is required for mechanical engineering courses numbered above 299
- Completion of all departmental and University requirements
- 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.

## Sample Curriculum for the Bachelor of Science in Mechanical Engineering

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### Year 1 (Fall Semester)

- (3) IE 106 Engineering Problem Solving
  - (4) **CHEM 131** Engineering Chemistry (BPS)
  - (1) **CHEM 135** Engineering Chemistry Lab (EL)
  - (3) ENG 101 English Composition I
  - (5) **MATH 150** Calculus I (BPS, FQR)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
  - (3) ACS 103 Interpersonal Communications (EUSC)
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics Laboratory I (EL)
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **CE 204** Engineering Graphics & CAD
  - (3) **CE 240** Statics
  - (4) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** Physics II for Engineering (BPS)
  - (1) **PHYS 152L** University Physics Laboratory II (EL)
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **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
  - (0) Application for Upper Division
- 18 - Total Credits
-

### Year 3 (Fall Semester)

(3) ME 310 Thermodynamics I  
(3) ME 350 Dynamics of Mechanisms  
(1) ME 354 Numerical Simulation  
(3) ME 370 Materials Engineering  
(3) STAT 380 Statistics for Applications (BICS)  
(3) Breadth Fine & Performing Arts (BFPA)  
16 - Total Credits

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### Year 3 (Spring Semester)

(3) ME 312 Thermodynamics II  
(3) ME 315 Fluid Mechanics  
(3) ME 356 Dynamic Systems Modeling  
(3) ME 380 Design of Machine Elements  
(1) ME 380L Stress Laboratory  
(3) PHIL 323 Engineering, Ethics & Professionalism (BHUM)  
16 - Total Credits

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### Year 4 (Fall Semester)

(3) ME 410 Heat Transfer  
(1) ME 410L Thermal Fluid Laboratory  
(2) ME 482 Mechanical Engineering Design I  
(3) ME Elective I  
(3) IE 345 Engineering Economic Analysis

(3) Interdisciplinary Studies (IS)/Global Cultures (EGC)  
(0-3) Health Experience (EH)  
15-18 - Total Credits

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### Year 4 (Spring Semester)

(1) ME 356L Dynamical Systems Laboratory  
(2) ME 484 Mechanical Engineering Design II  
(3) ME Elective II  
(3) ME Elective III  
(3) Breadth Life Science (BLS)  
(3) Engineering Elective  
15 - Total Credits

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### Total Hours 126-129

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.



# Mechatronics And Robotics Engineering

## Admission Requirements

To be admitted to the Bachelor of Science program, students must:

- Complete all academic development courses required by the University.
- Complete any courses to address high school deficiencies.
- Be eligible to enroll in MATH 125, pre-calculus, or higher.
- Maintain a cumulative grade point average (GPA) or at least 2.0 on a 4.0 scale.

## Degree Requirements

### Bachelor of Science Mechatronics and Robotics Engineering

#### Breadth - Physical Science Courses

- CHEM 131(or 121A), 135 (or 125A)
- MATH 152, 250, 305, 321
- PHYS 141, 151L, 142, 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, 102
- PHIL 323
- MATH 150 (FQR)
- ACS 101 or ACS 103

#### The Following Experiences Are Also Required:

Health (EH), Global Cultures (EGC) and United States Cultures (EUSC)

## Interdisciplinary Course (IS)

### Engineering Courses

- CE 240, 242
- CS 140 or 145
- IE 106, 345
- ECE 210, 211, 282, 381
- ME 262, 354, 356, 450\*
- MRE 320, 358, 380, 454, 477, 480, 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).

### 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 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 GPA of at least 2.25 for the above courses is required for other transfer students.
- A GPA 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)
- A grade of C or better in ENG 101, ENG 102, ME 262 and CE 240 or their equivalent

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 GPA of 2.0.
- Maintain a term GPA above 1.0 in any term.
- Maintain a cumulative GPA of at least 2.0 in all mathematics and science courses.
- Maintain a cumulative GPA of at least 2.0 in courses taught in the School of Engineering.
- Maintain a cumulative GPA 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.

### Degrees Available at SIUE

- Bachelor of Science, Mechatronics and Robotics Engineering

## Graduation Requirements

Degree requirements include the following:

- A cumulative grade point average (GPA) of 2.0 or higher in engineering courses
- A cumulative GPA of 2.0 or higher is required for mechatronics and robotics engineering courses numbered above 299
- Completion of all departmental and University requirements
- Completion of a senior assignment as part of MRE 480 (design in mechatronics and robotics I) and MRE 481 (design in mechatronics and 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.

## Sample Curriculum for the Bachelor of Science in Mechatronics and Robotics Engineering

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### Year 1 (Fall Semester)

- (3) IE 106 Engineering Problem Solving (NFS)
  - (4) **CHEM 131** Engineering Chemistry (BPS)
  - (1) **CHEM 135** Engineering Chemistry Lab (EL)
  - (3) ENG 101 English Composition I
  - (5) **MATH 150** Calculus I (BPS, FQR)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
  - (3) **CS 145** Intro to Computing for Engineers
  - (5) **MATH 152** Calculus II (BPS)
  - (3) **PHYS 141** Physics I for Engineering (BPS)
  - (1) **PHYS 151L** University Physics I Lab (EL)
  - 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) ACS 103 Interpersonal Communications (EUSC)
  - (3) **CE 240** Statics
  - (3) **ECE 210** Circuit Analysis I
  - (4) **MATH 250** Calculus III (BPS)
  - (3) **PHYS 142** Physics II for Engineering (BPS)
  - (1) **PHYS 152L** University Physics II Lab (EL)
  - 17 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **ME 262** Dynamics
  - (3) **CE 242** Mechanics of Solids
  - (4) ECE 211 Circuit Analysis II
  - (3) **ECON 111** Principles of Macroeconomics (BSS)
  - (3) **MATH 305** Differential Equations I (BPS)
  - (0) Application for Upper Division
  - 16 - Total Credits
-

### Year 3 (Fall Semester)

(4) ECE 282 Digital System Design  
(3) ME 356 Dynamic Systems Modeling  
(1) ME 354 Numerical Simulation  
(3) MRE 380 Design of Machine Elements  
(3) Math 321 Linear Algebra  
(3) Breadth Fine & Performing Arts (BFPA)  
17 - Total Credits

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### Year 3 (Spring Semester)

(3) MRE 358 Introduction to Mechatronics  
(3) MRE 320 Sensors and Actuators  
(3) ME 450\* Automatic Control  
(3) ECE 381 Microcontroller  
(3) PHIL 323 Engineering, Ethics & Professionalism (BHUM)  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) MRE 454 Robotics, Dynamics & Controls  
(2) MRE 480 Design in Mechatronics & Robotics I  
(3) MRE Technical Elective I  
(3) IE 345 Engineering Economic Analysis  
(3) Interdisciplinary Studies (IS) / Experience Global Cultures (EGC)

(0-2) Health Experience (EH)  
14-16 - Total Credits

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### Year 4 (Spring Semester)

(3) MRE Technical Elective II  
(3) MRE 477 Computer-Integ Manufacturing Systems  
(2) MRE 481 Design in Mechatronics & Robotics II  
(3) Breadth Life Science (BLS)  
(3) STAT 380 Statistics for Application (BICS)  
14 - Total Credits

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### Total Hours 125-127

\*ME 450 may be substituted by the two-course series ECE 365 (control systems) and ECE 465 (control systems design).

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Music

## Admission Requirements

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 complete the [online music audition application](#), or call the Music Department 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.

### 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. Visit the [transfer website](#) for more information.

### 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, and the latest details about these requirements can be found on the [School of Education, Health and Human Behavior section](#) of the undergraduate academic catalog or by making an appointment with a School of Education, Health and Human Behavior advisor.

## Degree Requirements

### Bachelor of Arts, Music

- MUS 100, 121A, 121B, 125A, 125B, 126A, 126B, 140 (2,2), 225A, 225B, 221A, 221B, 240 (2,2), 267, 367A, 367B

#### Music Literature

- Music major ensemble
- MUS 139A, 139B 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, 121A, 121B, 125A, 125B, 126A, 126B, 140 (2,2), 225A, 225B, 221A, 221B, 240 (2,2), 267, 367A, 367B, 400A-Z

#### Music Major Ensemble

#### Voice Performance Majors Only

- MUS 139A, 139B diction for singers
- MUS 419 or 442

Students are to choose two foreign languages from Italian, French and German.

### **Jazz Performance Specialization**

- MUS 231, 331 are substituted for MUS 221A, 221B
- MUS 141, 241 are substituted for MUS 140, 240

In addition to above requirements:

- MUS 230 (2), 330 (2,3, or 4), 337, 341 (4,4), 409A, 409B, 430 (2,3, or 4), 436, 439, 441(4,4), 490

### **Music Business Specialization**

In addition to above requirements:

- ACCT 200
- ECON 111, 112
- MUS 395A, 395B, 495 (12)

Business electives (12)

### **Music Education Specialization - Professional Educator Licensure (K-12)**

In addition to above requirements:

- CIED 100, 323
- CI 352O (6), 451C (6)
- EPFR 315, 320
- MUS 112, 113, 114, 116, 201, 301A, 301B, 301C, 309, 318A, 318B, 326, 340(2,2), 411, 440 (2), 490
- SPE 400

Instrumental students only: MUS 115A, 115B

Vocal students only: MUS 139A, 139B

### **Music Performance Specialization**

In addition to above requirements:

- MUS 309, 318A, 326, 411, 340(4,4), 440(4,4), 442, 461A, 490

Applied lessons in the freshman and sophomore years may be taken for either two or four 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, 165B substituted for MUS 121A, 121B; MUS 221A, 221B waived; MUS 413A, 413B; MUS 461A, 461B

Voice students only: Two foreign languages required

- one year of French, German or Italian and one year of a different language (i.e. First language 101/102; second language 101/102; MUS 139A, 139B; MUS 419; waived MUS 309, MUS 442)

### **Music Theory and Composition Specialization**

In addition to above requirements:

- MUS 212A, 212B, 227, 309, 326, 411G, 426A, 442, 472 A, 472B, 305

Theory emphasis only: One year of two different languages; MUS 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, 210A, 211A, 212A, 212B, 213, 314
- MUS 139A, 342 (3), 343, 444 (4)
- THEA 112A, 112B, 220, 392, 199 (2)
- THEA 150, 160, or 170

Music Elective (3 hours)

Theater Electives (6 hours)

Private Applied Voice (16)

### **Convocation Requirement**

Starting fall 2018, undergraduate music majors (BM or BA), whether declared or undeclared, must attend a minimum of **12 convocations/recitals/concerts per semester** until graduation or until a total of eight semesters of MUS 100 have been completed. Any semester prior to fall 2018 will still need the previously required 15 credits to be considered complete. Students who do not fulfill the **convocation** requirement will be barred from graduation.

i) Students who started in fall 2018 or later will require 96 convocation credits to graduate.

ii) For students who started prior to fall 2018, the number of convocations required for graduation will be: (number of semesters prior to fall 2018 x 15) + (number of semesters starting fall 2018 x 12). For

example, students starting their seventh semester in fall 2018 will need six semesters at 15 credits and two semesters at 12 credits, equaling 114 credits at graduation.

There are two exceptions:

i) 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. Music education and music business majors who complete their residency in eight semesters and are on a student teaching or internship placement during their ninth semester will need the full number of credits as indicated above. However, students who finish their residency in seven semesters, and who are on a student teaching or internship placement during their eighth semester, may graduate with 12 convocation credits fewer than indicated above.

ii) The 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.

Grading and Graduation Requirements:

Students will register for convocation (MUS 100) on a pass/incomplete basis for eight semesters. An incomplete grade will be removed when the required convocations/recitals have been completed.

## 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.

## General Education Requirements for the Major

Some general education requirements may be satisfied while completing this major concentration.

## Degrees Available at SIUE

- Bachelor of Arts, Music (specialization available in

the following)

- [Music History and Literature](#)
- Bachelor of Music (specializations available in the following)
  - [Jazz Performance](#)
  - [Music Business](#)
  - [Music Education - Professional Educator Licensure \(K-12\) option](#)
  - [Music Performance](#)
  - [Music Theory and Composition](#)
  - [Musical Theater](#)

## 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 four-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.

## 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 eight 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.

# Sample Curriculum for the Bachelor of Arts in Music

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## Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2) MUS 139A Diction (Voice Students only) or Music Elective (Non-Voice Students)
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

## Year 1 (Spring Semester)

- (1) MUS 121B Class Piano (or Proficiency)
  - (3) MUS 125B Theory (BFPA)
  - (1) MUS 126B Aural Skills
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (2) MUS 139B Diction (Voice Major Only) or Music Elective (Non-Voice Students)
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 102 English Composition II
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

## Year 2 (Fall Semester)

- (1) MUS 221A Class Piano (or Proficiency)
  - (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) RA 101 Reasoning & Argumentation
  - (3) Minor
  - (0) MUS 100 Convocation
  - 16 - Total Credits
- 

## Year 2 (Spring Semester)

- (1) MUS 221B Class Piano (or Proficiency)

- (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) QR 101, MATH 150 or Higher
  - (3) Health Experience (EH)
  - (0) MUS 100 Convocation
  - 16 - Total Credits
- 

## Year 3 (Fall Semester)

- (3) Breadth Life Science (BLS)
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (3) Elective
  - (2) Elective Music Literature
  - (4) Minor
  - (0) MUS 100 Convocation
  - 16 - Total Credits
- 

## Year 3 (Spring Semester)

- (3) Breadth Physical Science (BPS)
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (3) Experience United States Cultures (EUSC)/Breadth Social Science (BSS)
  - (2) Elective Music Literature
  - (3) Minor
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

## Year 4 (Fall Semester)

- (3) Breadth Humanities (BHUM)
  - (3) Interdisciplinary Studies (IS)
  - (3) Lab Experience (EL)
  - (3) Minor
  - (0) MUS 100 Convocation
  - 12 - Total Credits
- 

## Year 4 (Spring Semester)

- (3) Minor
- (3) Minor
- (3) Music Elective
- (4) Elective
- (0) MUS 100 Convocation
- (0) MUS 400A-Z Senior Assignment

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**Total Hours 120**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

**Sample Curriculum for the Bachelor of Music,  
Specialization in Jazz Performance**

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**Year 1 (Fall Semester)**

- (1) MUS 121A Class Piano (or Proficiency)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2 or 4) **MUS 141** Private Jazz
  - (1) MUS 230 Improvisation
  - (1) MUS 333 Jazz Combo
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 or 18 - Total Credits
- 

**Year 1 (Spring Semester)**

- (1) MUS 121B Class Piano (or Proficiency)
  - (3) MUS 125B Theory (BFPA)
  - (1) MUS 126B Aural Skills
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (2 or 4) **MUS 141** Private Jazz
  - (1) MUS 230 Improvisation
  - (1) MUS 333 Jazz Combo
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (0) MUS 100 Convocation
- 17 or 19 - Total Credits
- 

**Year 2 (Fall Semester)**

- (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2) MUS 231 Jazz Keyboard Theory
  - (2 or 4) **MUS 241** Private Jazz
  - (1) MUS 330 Improvisation (BFPA)
  - (1) MUS 333 Jazz Combo
  - (3) QR 101, MATH 150 or Higher
  - (0) MUS 100 Convocation
- 15 or 17 - Total Credits
- 

**Year 2 (Spring Semester)**

- (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2 or 4) **MUS 241** Private Jazz
  - (1) MUS 330 Improvisation (BFPA)
  - (2) MUS 331 Jazz Keyboard Theory (BFPA)
  - (1) MUS 333 Jazz Combo
  - (3) Breadth Social Science (BSS)
  - (0) MUS 100 Convocation
- 15 or 17 - Total Credits
- 

**Year 3 (Fall Semester)**

- (1) MUS 333 Jazz Combo
  - (3) MUS 337 Analysis of Jazz Styles
  - (4) MUS 341 Applied Lessons
  - (2) MUS 409A Jazz Arranging
  - (1) MUS 430 Improvisation
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (0) MUS 100 Convocation
- 15 - Total Credits
- 

**Year 3 (Spring Semester)**

- (1) MUS 333 Jazz Combo
  - (4) MUS 341 Private Jazz
  - (2) MUS 409B Jazz Arranging
  - (1) MUS 430 Improvisation
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (3) Breadth Humanities (BHUM)
  - (0) MUS 100 Convocation
- Junior Recital - During 3rd Year
- 15 - Total Credits
-



## Year 4 (Fall Semester)

- (1) MUS 333 Jazz Combo
  - (2) MUS 439 Recording Techniques
  - (1) MUS 430 Improvisation
  - (4) MUS 441 Applied Lessons
  - (3) Breadth Physical Science (BPS) with a Lab (EL)
  - (2) Elective
  - (0) MUS 100 Convocation
- 
- 13 - Total Credits

## Year 4 (Spring Semester)

- (1) MUS 333 Jazz Combo
  - (1) MUS 430 Improvisation
  - (2) MUS 436 Jazz Education
  - (4) MUS 441 Private Jazz
  - (3) Interdisciplinary Studies (IS)
  - (3) Breadth Life Science (BLS)/Health Experience (EH)
  - (0) MUS 100 Convocation
  - (0) MUS 400A-Z Senior Assignment
  - (0) MUS 490 Senior Recital - During 4th Year
- 
- 14 - Total Credits

## Total Hours 120

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Music, Specialization in Music Business

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### Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
- (3) MUS 125A Theory (BFPA)
- (1) MUS 126A Aural Skills
- (2) MUS 139A Diction (Voice Students Only) or Music Elective (Non-Voice Students)
- (2) **MUS 140** Applied Lessons

- (1) **MUS Major Ensemble**
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 
- 17 - Total Credits

### Year 1 (Spring Semester)

- (1) MUS 121B Class Piano (or Proficiency)
  - (3) MUS 125B Theory (BFPA)
  - (1) MUS 126B Aural Skills
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (2) MUS 139B Diction (Voice Major Only) or Music Elective (Non-Voice Students)
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ECON 111 Macroeconomics (BSS)
  - (3) ENG 102 English Composition II
  - (0) MUS 100 Convocation
- 
- 18 - Total Credits

### Year 2 (Fall Semester)

- (1) MUS 221A Class Piano (or Proficiency)
  - (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ECON 112 Microeconomics (BSS)
  - (3) RA 101 Reasoning & Argumentation
  - (0) MUS 100 Convocation
- 
- 16 - Total Credits

### Year 2 (Spring Semester)

- (1) MUS 221B Class Piano (or Proficiency)
  - (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ACCT 200 Financial Accounting
  - (3) QR 101, MATH 150 or Higher
  - (0) MUS 100 Convocation
- 
- 16 - Total Credits

### Year 3 (Fall Semester)

- (3) Breadth Life Science (BLS)/Health Experience (EH)
  - (3) MUS 395A Music Business (BFPA)
  - (3) Business Elective
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (3) Interdisciplinary Studies (IS)
  - (0) MUS 100 Convocation
  - 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) Breadth Physical Science (BPS)/Lab Experience (EL)
  - (3) MUS 395B Music Business (BFPA)
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (3) Business Elective
  - (0) MUS 100 Convocation
  - 13 - Total Credits
- 

### Year 4 (Fall Semester)

- (5) MUS Elective
  - (3) Business Elective
  - (3) Business Elective
  - (3) Breadth Humanities (BHUM)/Experience United States Culture (EUSC)
  - (0) MUS 100 Convocation
  - 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (12) MUS 495 Internship
  - (0) MUS 400A-Z Senior Assignment
  - 12 - Total Credits
- 

### Total Hours 122

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact

listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Music, Specialization in Music Education, Professional Educator Licensure (K-12)

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#### Year 1 (Fall Semester)

- (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 Piano Practicum (Keyboard Students Only)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (1) MUS 113 Class Applied Brass or MUS 114 Class Applied Percussion
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 18 - Total Credits
- 

#### Year 1 (Spring Semester)

- (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 Piano Practicum (Keyboard Students Only)
  - (3) MUS 125B Theory (BFPA)
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (1) MUS 126B Aural Skills
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (0) MUS 100 Convocation
  - 18 - Total Credits
- 

#### Year 2 (Fall Semester)

- (1) MUS 113 Class Applied Brass or MUS 114 Applied Percussion
- (1) MUS 221A Class Piano (or Proficiency; waived

for Keyboard Students Only)  
(4) MUS 225A Theory (BFPA)  
(2) MUS 367A History of Music II (BHUM, EGC)  
(2) **MUS 240** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) CIED 100 Introduction to Education  
(4) **FL 101** Elementary Foreign Language I (BICS)  
(0) MUS 100 Convocation  
18 - Total Credits

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### Year 2 (Spring Semester)

(1) MUS 112 Class Applied Woodwinds or MUS 116 Class Applied Strings  
(1) MUS 221B Class Piano (or Proficiency; waived for Keyboard Students Only)  
(4) MUS 225B Theory (BFPA)  
(2) **MUS 240** Applied Lessons  
(2) MUS 367B History of Music III (BHUM, EGC)  
(1) **MUS Major Ensemble**  
(4) **FL 102** Elementary Foreign Language II (BICS, EGC)  
(3) QR 101, MATH 150 or Higher  
(0) MUS 100 Convocation  
18 - Total Credits

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### Year 3 (Fall Semester)

(2) MUS 301A Education Methods: Elementary  
(3) MUS 309A Orchestration (BFPA)  
(2) MUS 318A Conducting  
(2) MUS 340 Applied Lessons  
(1) MUS Major Ensemble  
(3) **HIST 200 or HIST 201** US History (BSS, EL, EUSC)  
(3) SPE 400 The Exceptional Child  
(3) EPFR 315 Educational Psychology  
(0) MUS 100 Convocation  
19 - Total Credits

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### Year 3 (Spring Semester)

(2) MUS 301B Education Methods: Secondary Vocal/General  
(2) MUS 318B Conducting  
(2) MUS 340 Applied Lessons  
(1) MUS Major Ensemble  
(3) EPFR 320 Foundations of Ed in a Multicultural

Society  
(3) Breadth Life Science (BLS)/Health Experience (EH)  
(3) Breadth Physical Science (BPS)  
(3) CIED 323 Adolescent Content Literacy  
(0) MUS 100  
Junior Recital - During 3rd Year  
19 - Total Credits

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### Year 4 (Fall Semester)

(2) MUS 301C Education Methods: Secondary Instrumental  
(3) MUS 326 Analysis  
(2) MUS 411 Music Literature  
(2) MUS 440 Applied Lessons  
(1) MUS Major Ensemble  
(3) Breadth Humanities (BHUM)  
(3) Interdisciplinary Studies (IS)  
(0) MUS 100 Convocation  
16 - Total Credits

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### Year 4 (Spring Semester)

(6) CI 352 Student Teaching  
(6) CI 451C Elementary Student Teaching: Music  
(0) MUS 400E Senior Assignment  
12 - Total Credits

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### Total Hours 138

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Arts in Music, Specialization in Music History and Literature

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### Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2) MUS 139A Diction (Voice Students Only) or Music Elective (Non-Voice Students)
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (1) MUS 121B Class Piano (or Proficiency)
  - (3) MUS 125B Theory (BFPA)
  - (1) MUS 126B Aural Skills
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (2) MUS 139B Diction (Voice Major Only) or Music Elective (Non-Voice Students)
  - (2) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 102 English Composition II
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (1) MUS 221A Class Piano (or Proficiency)
  - (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (1) MUS Elective
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Physical Science (BPS)
  - (0) MUS 100 Convocation
  - 17 - Total Credits
- 

### Year 2 (Spring Semester)

- (1) MUS 221B Class Piano (or Proficiency)
- (4) MUS 225B Theory (BFPA)
- (2) MUS 367B History of Music III (BHUM, EGC)
- (2) **MUS 240** Applied Lessons

- (1) **MUS Major Ensemble**
  - (3) QR 101, MATH 150 or Higher
  - (2) Health Experience (EH)
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) MUS 326 Analysis
  - (3) Breadth Life Science (BLS)
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (3) Experience United States Culture (EUSC)/Breadth Social Science (BSS)
  - (2) Elective Music Literature
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

### Year 3 (Spring Semester)

- (3) Lab Experience (EL)
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (3) Breadth Information & Communication in Society (BICS)
  - (2) Elective Music Literature
  - (3) Elective
  - (0) MUS 100 Convocation
  - 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) MUS 442 Counterpoint (BFPA)
  - (3) Interdisciplinary Studies (IS)
  - (3) Breadth Humanities (BHUM)
  - (2) Elective Music Literature
  - (2) Elective
  - (0) MUS 100 Convocation
  - 13 - Total Credits
- 

### Year 4 (Spring Semester)

- (2) Elective Music Literature
- (3) Elective
- (3) Elective
- (3) Elective
- (2) Elective
- (0) MUS 100 Convocation
- (0) MUS 400A-Z Senior Assignment

13 - Total Credits

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## Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Music, Specialization in Music Performance (Instrumental)

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### Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2 or 4) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 15 or 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (1) MUS 121B Class Piano (or Proficiency)
  - (3) MUS 125B Theory (BFPA)
  - (1) MUS 126B Aural Skills
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (2 or 4) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning & Argumentation
  - (0) MUS 100 Convocation
- 16 or 18 - Total Credits
- 

### Year 2 (Fall Semester)

- (1) MUS 221A Class Piano (or Proficiency)

- (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2 or 4) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) Breadth Physical Science (BPS)
  - (0) MUS 100 Convocation
- 13 or 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (1) MUS 221B Class Piano (or Proficiency)
  - (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2 or 4) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) QR 101, MATH 150 or Higher
  - (0) MUS 100 Convocation
- 13 or 16 - Total Credits
- 

### Year 3 (Fall Semester)

- (3) MUS 309 Orchestration (BFPA)
  - (2) MUS 318A Conducting
  - (4) MUS 340 Applied Lessons
  - (1) MUS Major Ensemble
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (0) MUS 100 Convocation
- 14 - Total Credits
- 

### Year 3 (Spring Semester)

- (4) MUS 340 Applied Lessons
  - (1) MUS Major Ensemble
  - (3) Breadth Social Science (BSS)/Experience United States Culture (EUSC)
  - (4) Lab Experience (EL)
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (0) MUS 100 Convocation
- Junior Recital - During 3rd Year
- 16 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) MUS 326 Analysis
- (2) MUS 411 Music Literature
- (4) MUS 440 Applied Lessons
- (3) MUS 442 Counterpoint

- (1) MUS Major Ensemble
  - (2) Health Experience (EH)
  - (0) MUS 100 Convocation
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (4) MUS 440 Applied Lessons
  - (1) Major Ensemble
  - (3) MUS 461A Piano Teaching Techniques & Materials
  - (3) Interdisciplinary Studies (IS)
  - (3) Breadth Life Science (BLS)
  - (0) MUS 100 Convocation
  - (0) MUS 400A-Z Senior Assignment
  - (0) MUS 490 Senior Recital - During 4th Year
- 14 - Total Credits
- 

**Total Hours 120**

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### Sample Curriculum for the Bachelor of Music in Music, Specialization in Music Performance (Piano)

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#### Year 1 (Fall Semester)

- (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2 or 4) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (1) MUS 165A Piano Practicum
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 15 or 17 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) MUS 125B theory (BFPA)
- (1) MUS 126B Aural Skills
- (2) MUS 267 History of Music I (BHUM, EGC)
- (2 or 4) **MUS 140** Applied Lessons
- (1) **MUS Major Ensemble**
- (1) MUS 165B Piano Practicum
- (3) ENG 102 English Composition II
- (3) RA 101 Reasoning & Argumentation
- (0) MUS 100 Convocation

16 or 18 - Total Credits

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#### Year 2 (Fall Semester)

- (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2 or 4) **MUS 240** Applied Lessons
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (1) MUS 365 Piano Ensemble
  - (3) QR 101, MATH 150 or Higher
  - (0) MUS 100 Convocation
- 16 or 18 - Total Credits
- 

#### Year 2 (Spring Semester)

- (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2 or 4) **MUS 240** Applied Lessons
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (1) MUS 365 Piano Ensemble
  - (3) Breadth Physical Science (BPS)
  - (0) MUS 100 Convocation
- 16 or 18 - Total Credits
- 

#### Year 3 (Fall Semester)

- (3) MUS 318A Conducting
  - (4) MUS 340 Applied Lessons
  - (1) MUS 365 Piano Ensemble
  - (3) MUS 461A Piano Teaching Techniques
  - (3) MUS 309 Orchestration
  - (3) Breadth Life Science (BLS) with a lab (EL)
  - (0) MUS 100 Convocation
- 17 - Total Credits
- 

#### Year 3 (Spring Semester)

- (4) MUS 340 Applied Lessons
  - (1) MUS 365 Piano Ensemble
  - (3) MUS 461B Piano Teaching Techniques
  - (3) MUS 411 Music Literature
  - (3) Breadth Social Science (BSS)/Experience United States Culture (EUSC)
  - (0) MUS 100 Convocation
- Junior Recital - During 3rd Year
- 14 - Total Credits
-

### Year 4 (Fall Semester)

- (3) MUS 326 Analysis
  - (0) MUS 365 Piano Ensemble
  - (2) MUS 413A Piano Literature
  - (4) MUS 440 Applied Lessons
  - (3) Interdisciplinary Studies (IS)
  - (2) Health Experience (EH)
  - (0) MUS 100 Convocation
- 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) MUS 365 Piano Ensemble
  - (2) MUS 413B Piano Literature
  - (4) MUS 440 Applied Lessons
  - (3) MUS 442 Counterpoint
  - (0) MUS 100 Convocation
  - (0) MUS 400A-Z Senior Assignment
  - (0) MUS 490 Senior Recital -During 4th Year
- 12 - Total Credits
- 

**Total Hours 120**

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### Sample Curriculum for the Bachelor of Music, Specialization in Music Performance (Voice)

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#### Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
  - (3) MUS 125A Theory (BFPA)
  - (1) MUS 126A Aural Skills
  - (2) MUS 139A Diction
  - (2 or 4) **MUS 140** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) ENG 101 English Composition I
  - (0) MUS 100 Convocation
  - (3) ACS 101 Public Speaking
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 or 19 - Total Credits
- 

#### Year 1 (Spring Semester)

- (1) MUS 121B Class Piano (or Proficiency)
- (3) MUS 125B Theory (BFPA)
- (1) MUS 126B Aural Skills
- (2) MUS 139B Diction
- (2 or 4) **MUS 140** Applied Lessons

- (1) **MUS Major Ensemble**
  - (3) ENG 102 English Composition II
  - (3) Breadth Physical Science (BPS)
  - (0) MUS 100 Convocation
- 16 or 18 - Total Credits
- 

#### Year 2 (Fall Semester)

- (1) MUS 221A Class Piano (or Proficiency)
  - (4) MUS 225A Theory (BFPA)
  - (2 or 4) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (4) **\*FL 101** Elementary Foreign Language I (BICS)
  - (3) RA 101 Reasoning & Argumentation
  - (0) MUS 100 Convocation
- 15 or 17 - Total Credits
- 

#### Year 2 (Spring Semester)

- (1) MUS 221B Class Piano (or Proficiency)
  - (4) MUS 225B Theory (BFPA)
  - (2 or 4) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (4) **FL 102** Elementary Foreign Language II (EGC)
  - (2) MUS 267 History of Music I (BHUM, EGC)
  - (3) QR 101, MATH 150 or Higher
  - (0) MUS 100 Convocation
- 17 or 19 - Total Credits
- 

#### Year 3 (Fall Semester)

- (2) MUS 318A Conducting
  - (4) MUS 340 Applied Lessons
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (1) **MUS Major Ensemble**
  - (4) **\*FL 101** (second language) Elementary Foreign Language I (BICS)
  - (0) MUS 100 Convocation
- 13 - Total Credits
- 

#### Year 3 (Spring Semester)

- (4) MUS 340 Applied Lessons
- (2) MUS 367B History of Music III (BHUM, EGC)
- (1) **MUS Major Ensemble**
- (4) **FL 102** (second language) Elementary Foreign Language II (EGC)

(3) Breadth Life Science (BLS)/Lab Experience (EL)  
(0) MUS 100  
Junior Recital - During 3rd Year  
14 - Total Credits

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### Year 4 (Fall Semester)

(3) MUS 326 Analysis  
(4) MUS 440 Applied Lessons  
(1) MUS Major Ensemble  
(3) Breadth Social Science (BSS)/Health Experience (EH)  
(3) Interdisciplinary Studies (IS)  
(0) MUS 100 Convocation  
14 - Total Credits

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### Year 4 (Spring Semester)

(4) MUS 440 Applied Lessons  
(2) MUS 419 Vocal Pedagogy (BFPA)  
(1) MUS Major - Voice Ensemble  
(2) MUS 411 Music Literature  
(3) MUS 461A Piano Teaching Techniques & Materials  
(3) Breadth Humanities (BHUM) Experience United States Cultures (EUSC)  
(0) MUS 100 Convocation  
(0) MUS 400A-Z Senior Assignment  
(0) MUS 490 Senior Recital - During 4th Year  
15 - Total Credits

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### Total Hours 121

\*Students are to choose two foreign languages from Italian, French and German

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Music, Specialization in Music Theory and Composition (Theory Emphasis)

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### Year 1 (Fall Semester)

(1) MUS 121A Class Piano (or Proficiency)  
(3) MUS 125A Theory (BFPA)  
(1) MUS 126A Aural Skills  
(0-2) MUS 139A Diction (Voice Students Only)  
(2) **MUS 140** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) ENG 101 English Composition I  
(0) MUS 100 Convocation  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
15 or 17 - Total Credits

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### Year 1 (Spring Semester)

(1) MUS 121B Class Piano (or Proficiency)  
(3) MUS 125B theory (BFPA)  
(1) MUS 126B Aural Skills  
(2) MUS 267 History of Music I (BHUM, EGC)  
(0-2) MUS 139B Diction (Voice Students Only)  
(2) **MUS 140** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or Higher  
(0) MUS 100 Convocation  
16 or 18 - Total Credits

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### Year 2 (Fall Semester)

(1) MUS 221A Class Piano (or Proficiency)  
(4) MUS 225A Theory (BFPA)  
(2) MUS 367A History of Music II (BHUM, EGC)  
(2) **MUS 240** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) RA 101 Reasoning & Argumentation  
(4) Breadth Life Science (BLS) with a Lab (EL)  
(0) MUS 100 Convocation  
17 - Total Credits

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### Year 2 (Spring Semester)

(1) MUS 221B Class Piano (or Proficiency)  
(4) MUS 225B Theory (BFPA)



(2) MUS 367B History of Music III (BHUM, EGC)  
(2) MUS 227 Intro to Composition  
(2) **MUS 240** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) Breadth Physical Science (BPS)  
(3) MUS 305 Non-Western Music (BFPA, EGC)  
(0) MUS 100 Convocation  
18 - Total Credits

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### Year 3 (Fall Semester)

(1) MUS 165A Piano Practicum  
(2) MUS 212A Applied Composition  
(3) MUS 309 Orchestration (BFPA)  
(1) MUS Major Ensemble  
(4) **\*FL 101** Elementary Foreign Language I (BICS)  
(2) Health Experience (EH)  
(0) MUS 100 Convocation  
13 - Total Credits

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### Year 3 (Spring Semester)

(2) MUS 212B Applied Composition  
(2) MUS 426A Adv Music Theory: Music Since 1900  
(3) MUS 472 Arranging  
(1) MUS Major Ensemble  
(4) **\*FL 102** Elementary Foreign Language II (EGC)  
(0) MUS 100 Convocation  
12 - Total Credits

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### Year 4 (Fall Semester)

(3) MUS 326 Analysis  
(2) MUS 411G Music Lit: 20th Century  
(3) MUS 481 Readings in Music Theory  
(4) **\*FL 101** (Second Language)  
(1) MUS Major Ensemble  
(3) Breadth Humanities (BHUM/Experience United States Cultures (EUSC)  
(0) MUS 100 Convocation  
16 - Total Credits

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### Year 4 (Spring Semester)

(3) MUS 481 Readings in Music Theory  
(3) MUS 442 Counterpoint  
(4) **\*FL 102** (Second Language)

(3) Interdisciplinary Studies (IS)  
(0-2) Elective (Non-Voice Students Only)  
(0) MUS 100 Convocation  
(0) MUS 400A-Z Senior Assignment  
13 or 15 - Total Credits

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### Total Hours 120

\*Foreign language in year two and three must be French, German, Italian or Latin.

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### Sample Curriculum for the Bachelor of Music, Specialization in Music Theory and Composition (Composition Emphasis)

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#### Year 1 (Fall Semester)

(1) MUS 121A Class Piano (or Proficiency)  
(3) MUS 125A Theory (BFPA)  
(1) MUS 126A Aural Skills  
(0-2) MUS 139A Diction (Voice Students Only)  
(0-1) MUS 115A, MUS 112, MUS 113 or MUS 116 (Non-Voice Students)  
(2) **MUS 140** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) ENG 101 English Composition I  
(0) MUS 100 Convocation  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
15 or 16 - Total Credits

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#### Year 1 (Spring Semester)

(1) MUS 121B Class Piano (or Proficiency)  
(3) MUS 125B Theory (BFPA)  
(1) MUS 126B Aural Skills  
(2) MUS 267 History of Music I (BHUM, EGC)  
(2) **MUS 140** Applied Lessons  
(2) MUS 227 Intro to Composition  
(1) **MUS Major Ensemble**  
(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or Higher  
(0) MUS 100 Convocation  
18 - Total Credits

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#### Year 2 (Fall Semester)

(2) MUS 212A Applied Composition

- (1) MUS 221A Class Piano (or Proficiency)
  - (4) MUS 225A Theory (BFPA)
  - (2) MUS 367A History of Music II (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) RA 101 Reasoning & Argumentation
  - (3) Breadth Physical Science (BPS)
  - (0) MUS 100 Convocation
  - 18 - Total Credits
- 

### Year 2 (Spring Semester)

- (1) MUS 114 Class Percussion
  - (2) MUS 212B Applied Composition
  - (1) MUS 221B Class Piano (or Proficiency)
  - (4) MUS 225B Theory (BFPA)
  - (2) MUS 367B History of Music III (BHUM, EGC)
  - (2) **MUS 240** Applied Lessons
  - (1) **MUS Major Ensemble**
  - (3) Breadth Life Science (BLS) with a lab (EL)
  - (0) MUS 100 Convocation
  - 16 - Total Credits
- 

### Year 3 (Fall Semester)

- (1) MUS 165A Piano Practicum
  - (3) MUS 309 Orchestration (BFPA)
  - (2) MUS 312A Applied Composition
  - (1) MUS Major Ensemble
  - (4) \***FL 101** Elementary Foreign Language I (BICS)
  - (2) Health Experience (EH)
  - (0) MUS 100 Convocation
  - 13 - Total Credits
- 

### Year 3 (Spring Semester)

- (2) MUS 312B Applied Composition
  - (3) MUS 442 Counterpoint
  - (3) MUS 472 Arranging
  - (1) MUS Major Ensemble
  - (4) \***FL 102** (same language) Elementary Foreign Language II (EGC)
  - (0) MUS 100 Convocation
  - 13 - Total Credits
- 

### Year 4 (Fall Semester)

- (2) MUS 318A Conducting
  - (3) MUS 326 Analysis
  - (2) MUS 411G Music Lit: 20th Century
  - (4) MUS 412A Applied Composition
  - (3) Interdisciplinary Studies (IS)
  - (0) MUS 100 Convocation
  - 14 - Total Credits
- 

### Year 4 (Spring Semester)

- (4) MUS 412B Applied Composition
  - (2) MUS 426A Adv Music Theory: Music Since 1900
  - (3) MUS 305 Non-Western Music (BFPA, EGC)
  - (3) Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)
  - (0-1) Elective (Non-Voice Students Only)
  - (0) MUS 100 Convocation
  - (0) MUS 400C Senior Assignment (Recital)
  - 12 or 13 - Total Credits
- 

### Total Hours 120

\* Foreign language must be French, German, Italian or Latin.

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Music, Specialization in Musical Theater

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#### Year 1 (Fall Semester)

- (1) MUS 121A Class Piano (or Proficiency)
- (3) MUS 125A Theory (BFPA)
- (1) MUS 126A Aural Skills
- (2) **MUS 140Q** Applied Lessons
- (1) **MUS Major Ensemble**
- (3) DANC 114 Movement Fundamentals (EH)

(3) ENG 101 English Composition I  
(3) QR 101 Quantitative Reasoning, MATH 150 or higher  
(0) MUS 100 Convocation  
(1) FST 101 Succeeding & Engaging at SIUE  
18 - Total Credits

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### Year 1 (Spring Semester)

(1) MUS 121B Class Piano (or Proficiency)  
(3) MUS 125B Theory (BFPA)  
(1) MUS 126B Aural Skills  
(2) **MUS 140Q** Applied Lessons  
(1) **MUS Major Ensemble**  
(3) ENG 102 English Composition II  
(3) ACS 101 Public Speaking  
(3) RA 101 Reasoning and Argumentation  
(0) MUS 100 Convocation  
17 - Total Credits

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### Year 2 (Fall Semester)

(1) MUS 221A Class Piano (or Proficiency)  
(4) MUS 225A Theory (BFPA)  
(2) MUS 367A History of Music II (BHUM, EGC)  
(2) **MUS 240Q** Applied Lessons  
(1) **MUS Major Ensemble**  
(2) DANC 210A Beginning Modern Dance (EH)  
(3) THEA 112A Introduction to Acting  
(0) THEA 199 Theater Production Elective  
(0) MUS 100 Convocation  
15 - Total Credits

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### Year 2 (Spring Semester)

(1) MUS 221B Class Piano (or Proficiency)  
(4) MUS 225B Theory (BFPA)  
(2) MUS 367B History of Music III (BHUM, EGC)  
(2) **MUS 240Q** Applied Lessons  
(1) **MUS Major Ensemble**  
(2) DANC 211A Beginning Ballet (EH)  
(3) THEA 112B Creating a Role  
(0) MUS 100 Convocation  
15 - Total Credits

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### Year 3 (Fall Semester)

(2) MUS 340Q Applied Lessons  
(2) MUS 139A Diction  
(1) MUS 342 Musical Theater Ensemble  
(3) Theater Elective  
(1) DANC 212A Jazz Dance  
(1) DANC 213 Beginning Tap Dance  
(4) **FL 101** Elementary Foreign Language I (BICS)  
(0) THEA 199 Theater Production Elective  
(0) MUS 100 Convocation  
14 - Total Credits

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### Year 3 (Spring Semester)

(2) MUS 340Q Applied Lessons  
(1) MUS 343 Seminar in Audition Techniques  
(3) Theater Elective  
(1) DANC 212B Advanced Jazz  
(4) **FL 102** Elementary Foreign Language II (EGC)  
(4) Breadth Physical Science (BPS)/Lab Experience (EL)  
(0) MUS 100  
15 - Total Credits

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### Year 4 (Fall Semester)

(2) MUS 440Q Applied Lessons  
(1) MUS 342 Musical Theater Ensemble  
(0) MUS 100 Convocation  
(1) DANC 314 Broadway Styles  
(3) THEA 392 American Musical Theater (EUSC)  
(3) Breadth Social Science (BSS)  
(3) Breadth Life Science (BLS)  
(3) Music Elective  
16 - Total Credits

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### Year 4 (Spring Semester)

(2) MUS 440Q Applied Lessons  
(1) MUS 342 Musical Theater Ensemble  
(3) THEA 150, THEA 160, or THEA 170  
(3) THEA 220 Directing for the Stage  
(3) Interdisciplinary Studies (IS)  
(0) MUS 100 Convocation  
(0) MUS 400A-Z Senior Assignment  
12 - Total Credits

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**Total Hours 122**

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or

receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Nursing

## Degrees Available at SIUE

- Bachelor of Science, Nursing (options for completion as follows)
  - [Traditional](#)
  - [Post-Baccalaureate Accelerated](#)
  - [Accelerated RN to BS Nursing](#)
  - Combined Baccalaureate to Graduate Degree

## Admission Requirements

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 minimum 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 website](#) 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.

## 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% or 16 semester hours of the nursing curriculum may be accepted as transfer credit for the ABS option.

## Degree Requirements

NURS 231 - Examination of the Role of the Professional Nurse

NURS 240 - Pathophysiology

NURS 246 - Foundation and Health Assessment in Nursing Practice

NURS 341A - Pharmacology for Nurses - Adult Medicine

NURS 341B - Pharmacology for Nurses - Specialty Courses

NURS 342 - Adult Health I

NURS 343 - Adult Health 2

NURS 354 - Care of Women and Childbearing Families

NURS 355 - Care of Children and Adolescents

NURS 472 - Nursing Research

NURS 474 - Care of Persons with Mental Health Needs

NURS 475 - Care of Populations  
NURS 476 - Care of the Person with Complex Needs  
NURS 481 - Nursing Leadership and Management  
NURS 482 - Transition to Professional Practice Role  
NURS 483 - Capstone Review of Nursing Coursework

## **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 content (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.

## **Additional Curriculum Requirements for All Baccalaureate Students**

### **Senior Assignment**

All nursing majors are required to complete a senior assignment. In the traditional and accelerated Bachelor of Science (ABS) programs, students will complete a senior assignment project in NURS 481 or 490. 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 484R and 480R or NURS 606 and 490R in the accelerated

undergraduate to graduate option. At the end of NURS 481, 480R or 490R students will present their senior assignment project to course participants, course faculty and other invited faculty. Students in NURS 481, 480R or 490R 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, at the student's expense, the following information is required to be submitted to the vendor in accordance with the timeline provided by the School of Nursing. 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

### **Retention**

- Students must achieve a grade of 75.5% (rounded) 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.
- 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.)

For more information about retention requirements, please refer to the retention and progression standards in the Baccalaureate Student Handbook.

### **Accelerated Undergraduate to Graduate Nursing Options**

Effective fall 2019, students in the accelerated BS program may apply for accelerated graduate program options for Master of Science degrees in healthcare nursing administration or nurse educator, and the Doctor of Nursing Practice degree for the family nurse practitioner program. Students who are eligible to enter these options may replace up to seven credits of nursing undergraduate courses with nursing graduate courses, reducing both time and cost involved in attaining a graduate degree.

### **Graduation Requirements**

- Completion of 65 or 66 credit hours for the accelerated Bachelor of Science
- Overall grade point average (GPA) of 2.0 on a 4.0 scale
- Successful completion of School of Nursing curriculum requirements
- Successful completion of capstone project/senior assignment

### **Sample Curriculum for the Bachelor of Science**

### **in Nursing, Post-Baccalaureate Accelerated Option**

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#### **Year 1 (Fall Semester)**

- (4) NURS 231 Examination of Role of Professional Nurse
  - (4) NURS 240 Pathophysiology
  - (6) NURS 246 Foundation & Assessment in Nursing Practice
  - (3) NURS 472 Nursing Research or (3) NURS 604 Evaluating Evidence for Improving Practice (Accel UG-Grad Option Only\*)
- 17 - Total Credits
- 

#### **Year 1 (Spring Semester)**

- (5) NURS 474 Care of Persons with Mental Health Needs
  - (5) NURS 342 Adult Health I
  - (5) NURS 343 Adult Health II
  - (2) NURS 341A Pharmacology for Nurses-Adult Medicine
  - (4) NURS 475 Care of Populations
- 21 - Total Credits
- 

#### **Year 1 (Summer Semester)**

- (5) NURS 354 Care of Women and Childbearing Families
  - (5) NURS 355 Care of Children and Adolescents
  - (2) NURS 341B Pharmacology for Nursing-Specialty Courses
- 12 - Total Credits
- 

#### **Year 2 (Fall Semester)**

- (3) NURS 481 Nursing Leadership and Management or (3) NURS 606 Leadership Health Policy with (1) NURS 490 SRA (Accel UG-Grad Option Only\*)
  - (4) NURS 482 Transition to Professional Practice Role
  - (5) NURS 476 Care of Person with Complex Health Needs
  - (3) NURS 483 Capstone Review
- 15 or 16 - Total Credits
- 

**Total Hours 65 or \*66 for the Accelerated UG-**

## Grad Option

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### Admission Requirements

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An application form is available [online](#), and students are admitted every eight weeks on a rolling basis. Choose the “RN to BS” application link after clicking on “Undergraduate.” An application to the School of Nursing will be considered complete and reviewable for admission when all of the following criteria are met:

- Admission to the University and the School of Nursing (requires submission of the online application for the accelerated registered nurse to Bachelor of Science (RN to BS) program and the \$40 application fee).
- Official transcripts from all colleges/universities attended have been sent to SIUE Office of Admissions.
- Cumulative grade point average (GPA) of 2.0 on a 4.0 scale (includes all college-level courses).

Applicants are responsible for ensuring their materials are received in the School of Nursing. In order for an application to be reviewed, all application materials must be present.

Note: Anatomy/Physiology I and II and Microbiology must be completed prior to enrolling in any nursing courses.

### 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% of the nursing curriculum can be accepted as transfer which equates to six semester hours for the RN to BS option.

### Degree Requirements

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NURS 240R - Pathophysiology  
NURS 335R - Health Assessment Strategies  
NURS 475R - Care of Populations  
NURS 472R - Scholarly Inquiry: Connecting Research to Practice  
NURS 484R - Quality, Safety and the Professional

Nurse  
NURS 480R - Nursing Leadership in Healthcare Systems

The accelerated registered nurse to Bachelor of Science in nursing (RN to BS) option in the School of Nursing is designed for students who have previously graduated from associate degree nursing programs and diploma nursing programs. This program is offered in a flexible, entirely online format to accommodate the needs of working registered nurses (RNs). The program format consists of eight-week courses, and can be completed in one year (three semesters) if most of the general education requirements are met at the time of admission. Students may also choose to pursue a slower program progression.

### Bridge Process

Once a student entering the RN to BS program provides evidence of a current unencumbered RN license, the School of Nursing will complete an overall assessment of the student’s work experience and previously completed community college and university nursing coursework. The School of Nursing may then grant up to 40 or 43 proficiency credits to provide the student with advanced standing in the nursing program. These credits differ from the transfer of courses. If the student’s college or university credits are greater than five years old, the candidate will need to submit a portfolio to demonstrate proficiency in the areas in which credit is sought, along with evidence of a current unencumbered RN license.

Applicants who have completed their nursing coursework over five years prior to acceptance into the program are required to submit a portfolio of their professional work prior to their initial course in the program. The portfolio will be reviewed by the RN to BS program director. The proficiency credit is not applied to the student’s transcript until successful completion of the bridge courses with a grade of C or better. The proficiency credits will apply towards the nursing major at SIUE.

### General Education Requirements for the Accelerated RN to BS Option

**Prerequisite Requirements (must have a grade**



## of C or higher)

- 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 Curriculum Requirements

### Senior Assignment

All nursing majors are required to complete a senior assignment. In the traditional and accelerated Bachelor of Science (ABS) programs, students will complete a senior assignment project in NURS 481 or 490. 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 484R and 480R or NURS 606 and 490R in the accelerated undergraduate to graduate option. At the end of NURS 481, 480R or 490R students will present their senior assignment project to course participants, course faculty and other invited faculty. Students in NURS 481, 480R or 490R 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.

### Student Transportation to Clinical Practicum

Students may be required to travel to clinical sites for the practicum experience (NURS 475R). Transportation to those sites is the responsibility of the student.

## Health/Background Check Information

At the student's expense, the following must be submitted to the approved vendor and according to the instructions and due dates provided by the School of Nursing:

- Immunization waiver form (provided to student)
- Criminal background check
- Drug screen
- Unencumbered RN license (before enrollment in NURS 475R)

## Retention

- Students must achieve a grade of 75.5% (rounded) 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.
- 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.)

## Accelerated Undergraduate to Graduate Nursing Options

Effective fall 2019, students in the accelerated RN to BS program may apply for accelerated graduate program options for Master of Science degrees in healthcare nursing administration or nurse educator, and the Doctor of Nursing Practice degree for the family nurse practitioner program. Students who are eligible to enter these options may replace up to

seven credits of nursing undergraduate courses with nursing graduate courses, reducing both time and cost involved in attaining a graduate degree.

## Graduation Requirements

- Completion of 120 credit hours for the accelerated registered nurse to Bachelor of Science (RN to BS) option
- Overall grade point average (GPA) of 2.0 on a 4.0 scale
- Successful completion of School of Nursing curriculum requirements
- Successful completion of capstone project/senior assignment

## Sample Curriculum

### Prerequisites Required for Enrollment in the Program

- (4) Anatomy & Physiology I
- (4) Anatomy & Physiology II
- (3) Microbiology

RN to BS curriculum/prerequisites must have a grade of C or higher.

**Effective summer 2018, a college level chemistry course is no longer required in the RN to BS program.**

### Complete “Immersion” Prior to Registration in NURS 240R

Prior to registering for the first nursing course (NURS 240R), students must complete the “immersion” to the registered nurse to Bachelor of Science (RN to 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
3. Library resources

In the fourth module, students will demonstrate successful use of many of the Blackboard tools used

in the nursing courses. The “immersion” will be a resource throughout the program.

### Additional Prerequisites Required Before NURS 475R

- (3) English Composition I
- (3) English Composition II
- (3) Speech-Public Speaking
- (3) Logic
- (3) Statistics
- (3) Ethics

### Nursing Courses to be Completed (in Order Listed)

- (4) NURS 240R Pathophysiology
- (3) NURS 335R Health Assessment Strategies
- (4) NURS 475R Care of Populations
- (3) NURS 472R Scholarly Inquiry: Connecting Research to Practice or (3) NURS 604 Evaluating Evidence for Improving Practice (Accel UG-Grad Option Only)
- (4) NURS 484R Quality, Safety, and the Professional Nurse (Capstone I)
- (4) NURS 480R Nursing Leadership in Health Care Systems (Capstone II) or (3) NURS 606 Leadership and Health Policy AND (1) NURS 490R SRA (Accel UG-Grad Option Only)
- 22 - Total Credits

### Remaining General Education Requirements to be Completed for Degree

- (3) 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)
- Elective Courses if needed (varies by student)

## Admission Requirements

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.

The deadline date for application is March 1 for both fall and spring admissions.

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.
- 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, CHEM 120A/124A, PSYC 111, and BIOL 140 (or a higher biology prerequisite, BIOL 150 or BIOL 240A).\*
- Students must have a minimum prerequisite grade point average of 3.0 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).

\*Prerequisite courses taken during the summer semester (preceding the fall admission term) and prerequisite courses taken during the fall semester (preceding the spring admission term) will not be considered part of the application for admission.

### **Additional Prerequisite Requirements**

- A failed prerequisite course (D, F or WF grade) may not be repeated more than once to receive a passing grade of C or higher.
- If a prerequisite course is repeated, the initial

grade will remain in the grade point average calculation unless there is official documentation of the grade from the repeated course at the time of admission evaluation.

- Students must complete all remaining required prerequisite courses with a C or better 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, BIOL 250, and BIOL 240A.

BIOL 140 is SIUE’s prerequisite course for BIOL 240A and BIOL 250 which are taken in the second semester of prerequisites. If a student attended another college and completed an equivalent course for BIOL 240A, then the student can use that course (in lieu of BIOL 140) for the first semester biology prerequisite requirement.

CLEP exams for prerequisite requirements are only accepted if the University accepts the individual exam.

Applicants will be prioritized on a point value system which reflects completion of the required admission prerequisite courses listed above and any repeats of the required science prerequisite courses. Repeating two separate science prerequisite courses to receive a passing grade (C or higher) will result in a lower point value which could affect the applicant’s admission status.

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 website](#) or from the School of Nursing in Alumni Hall, room 2117, or by calling 618-650-3956.

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 by 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 program is awarded to highly qualified incoming freshmen with an ACT composite score of at least 23 or E R W +M SAT 1130 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 grade of C 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)
- For honors students, the prerequisite GPA will include HONS 120 and 121 in lieu of ENG 101, ENG 102 and ACS 101. HONS 100 (spring semester) will not be included in the prerequisite GPA, but will be included in the cumulative GPA.
- A minimum 3.0 cumulative GPA (including all college coursework) 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.

### **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% or 17 semester hours of the nursing curriculum may be accepted as transfer credit for the traditional option.

### **Degree Requirements**

NURS 231 - Examination of the Role of the Professional Nurse  
NURS 234 - Human Development Across the Lifespan  
NURS 240 - Pathophysiology  
NURS 246 - Foundation and Health Assessment in Nursing Practice  
NURS 341A - Pharmacology for Nurses - Adult Medicine  
NURS 341B - Pharmacology for Nurses - Specialty Courses  
NURS 342 - Adult Health I  
NURS 343 - Adult Health 2  
NURS 354 - Care of Women and Childbearing Families  
NURS 355 - Care of Children and Adolescents  
NURS 472 - Nursing Research  
NURS 474 - Care of Persons with Mental Health Needs  
NURS 475 - Care of Populations  
NURS 476 - Care of the Person with Complex Needs  
NURS 481 - Nursing Leadership and Management  
NURS 482 - Transition to Professional Practice Role  
NURS 483 - Capstone Review of Nursing Coursework

## 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, 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.

University general education requirements are listed in the [undergraduate academic catalog](#) and noted in the sample curricula.

### Additional General Education (grade of C or better required)

- BIOL 240B
- RA 101
- PHIL 225, 320 or PHIL 321
- STAT 107 or 244 (prior to senior status)

### Retention

- Students must achieve a grade of 75.5% (rounded) 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.
- 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.)

## Additional Curriculum Requirements for All Baccalaureate Students

### Senior Assignment

All nursing majors are required to complete a senior assignment. In the traditional and accelerated Bachelor of Science (ABS) programs, students will complete a senior assignment project in NURS 481 or 490. 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 484R and 480R or NURS 606 and 490R in the accelerated undergraduate to graduate option. At the end of NURS 481, 480R or 490R students will present their senior assignment project to course participants, course faculty and other invited faculty. Students in NURS 481, 480R or 490R 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

## Accelerated Undergraduate to Graduate Nursing Options

Effective fall 2019, students in the traditional program may apply for accelerated graduate program options for Master of Science degrees in healthcare nursing administration or nurse educator, and the Doctor of Nursing Practice degree for the family nurse practitioner program. Students who are eligible to enter these options may replace up to seven credits of nursing undergraduate courses with nursing graduate courses, reducing both time and cost involved in attaining a graduate degree.

## Graduation Requirements

- Completion of 122 or 123 credit hours for the traditional Bachelor of Science
- Overall grade point average (GPA) of 2.0 on a 4.0 scale
- Successful completion of School of Nursing curriculum requirements
- Successful completion of capstone project/senior assignment

## Sample Curriculum for the Bachelor of Science Degree in Nursing, Traditional Option

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### Year 1 (Fall Semester)

- (3) **ENG 101** English Composition I
  - (3) **ACS 101** Public Speaking
  - (3) **CHEM 120A** Gen, Org, & Biol Chem I (BPS)
  - (1) **CHEM 124A** Gen, Org, & Biol Chem Lab (EL)
  - (3) **BIOL 140** Human Biology (BLS)
  - (3) **PSYC 111** Foundations of Psychology (BSS)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) **ENG 102** English Composition II
  - (4) **BIOL 250** Bacteriology (LS)
  - (4) **BIOL 240A** Anatomy & Physiology I (BLS, EL)
  - (3) **CHEM 120B** Gen, Org, & Biol Chem II (BPS)
  - (1) **CHEM 124B** Gen, Org, & Biol Chem II Lab (EL)
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) NURS 231 Examination of Role of Profess Nurse
  - (3) NURS 234 Human Development-Life Span
  - (4) **BIOL 240B** Anatomy & Physiology II (BLS, EL)
  - (3) **RA 101** Reasoning & Argumentation (FRA) or **PHIL 212**
  - (3) **QR 101** Quantitative Reasoning or **MATH 150**
- 17 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) NURS 240 Pathophysiology (LS)
  - (6) NURS 246 Foundation & Assmnt in Nsg Practice
  - (3) **STAT 107** Concepts of Statistics or **STAT 244** (BICS)
  - (3) Breadth Fine & Performing Arts (BFPA)
- 16 - Total Credits
- 

### Year 3 (Fall Semester)

- (2) NURS 341A Pharmacology for Nurses-Adult Medicine
- (5) NURS 342 Adult Health I

(5) NURS 343 Adult Health II  
(3) Interdisciplinary Course (IS)/Experience Global Cultures (EGC)  
15 - Total Credits

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### Year 3 (Spring Semester)

(2) NURS 341B Pharmacology for Nsg-Specialty Courses  
(5) NURS 354 Care of Women & Childbearing Families  
(5) NURS 355 Care of Children & Adolescents  
(3) **PHIL 225** Contemp Moral Issues, or **PHIL 320** Ethics or **PHIL 321** Medical Ethics (BHUM)  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) NURS 472 Nursing Research or (3) NURS 604 Evaluating Evidence for Improving Practice (Accel UG-Grad Option Only)  
(5) NURS 474 Care of Person with Mental Health Needs  
(4) NURS 475 Care of Populations (EUSC, EH)  
12 - Total Hours

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### Year 4 (Spring Semester)

(3) NURS 481 Nursing Leadership & Management or (3) NURS 606 Leadership and Health Policy with (1) NURS 490 SRA (Accel UG-Grad Option Only)  
(4) NURS 482 Transition to Professional Practice Role  
(5) NURS 476 Care of Person with Complex Health Needs  
(3) NURS 483 Capstone Review  
15 - Total Hours

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**Total Hours 122 (123 for Accelerated UG-Grad Option)**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. Visit the [transfer credit website](#) to find course equivalency guides.

# Nutrition

## 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 four-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.

### 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.

## Degree Requirements

### General Education Requirements for the Major

#### Foundations Courses

- ENG 101, 102
- RA 101
- ACS 101
- 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, 240A, 240B, 250
- Physical Science (BPS) - CHEM 120A/121A, 120B/121B
- Social Science (BSS) - PSYC 111

#### Experiences

- Lab (EL) - CHEM 124A/125A
- Health (EH) - NUTR 205
- Global Cultures (EGC) - Any EGC course
- United States Cultures (EUSC) - SOC 111 - Recommend any sociology or anthropology EUSC designated course or students can choose from the approved courses

#### Interdisciplinary Studies Course

- Any IS course

#### First Semester Transition (FST) 101 Succeeding & Engaging at SIUE

### Major Requirements

- NUTR 205, 210, 250, 319, 327, 401, 408, 409, 410, 411, 421, 464
- KIN 211, 275, 412
- NUTR/KIN 355

#### Electives (14-16 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.

### 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, including nutrition, kinesiology, chemistry and biology 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.

### Degrees Available at SIUE

- Bachelor of Science, Nutrition

### 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 four-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). Visit the [transfer credit website](#) to find course equivalency guides.

### 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.

### Sample Curriculum for the Bachelor of Science in Nutrition

#### Year 1 (Fall Semester)

- (3) ENG 101 (NFS) English Composition I
- (3) ACS 101 Public Speaking
- (3) **BIOL 140** Human Biology (BLS\*)
- (3) PSYC 111 Psychology (BSS\*)
- (3-4) **CHEM 120A** General, Orgc and Biol Chemistry (BPS\*) or **CHEM 121A** General Chemistry
- (1) **CHEM 124A** General, Orgc and Biol Chemistry Lab (EL\*) or **CHEM 125A** General Chemistry Lab I (EL\*)

(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

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### Year 1 (Spring Semester)

(3) ENG 102 English Composition II  
(3) **BIOL 250** Bacteriology\*  
(4) **BIOL 240A** Anatomy & Physiology I\*  
(3) Experience US Cultures (EUSC)  
(3-4) **CHEM 120B** General, Orgc and Biol Chemistry (BPS\*) or **CHEM 121B** General Chemistry (BPS\*)  
(1) **CHEM 124B** General, Orgc and Biol Chemistry Lab (EL\*) or **CHEM 125B** General Chemistry Lab II (EL\*)  
17-18 - Total Credits

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### Year 2 (Fall Semester)

(3) NUTR 205 Food Science (EH)  
(3) RA 101 Reasoning and Argumentation  
(4) **BIOL 240B** Anatomy and Physiology II\*  
(3) Breadth Fine and Performing Arts (BFPA)  
(3) Elective  
16 - Total Credits

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### Year 2 (Spring Semester)

(3) NUTR 210 Food and Culture (EH)  
(3) **NUTR 250** Intro to Human Nutrition  
(3) **KIN 275** Introduction to Careers in Nutrition and Exercise Sciences  
(4) Elective  
(3) QR 101 Quantitative Reasoning  
16 - Total Credits

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### Year 3 (Fall Semester)

(3) NUTR 319 Nutrition Biochemistry  
(3) NUTR 327 Lifecycle Nutrition  
(3) **KIN 211** Medical Terminology  
(3) Breadth Humanities (BHUM)  
(3) Elective  
15 - Total Credits

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### Year 3 (Spring Semester)

(3) NUTR 401 Nutrition Ed & Counseling  
(3) NUTR 355/KIN 355 Sports Nutrition and Supplements  
(3) Breadth Information and Communications (BICS)  
(3) Interdisciplinary Studies (IS)  
(3) Elective  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) NUTR 408 Food Service Management I  
(3) NUTR 409 Large Quantity Food Prep  
(3) NUTR 411 Intro Medical Nutrition Therapy  
(3) Experience Global Culture (EGC)  
12 - Total Credits

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### Year 4 (Spring Semester)

(3) NUTR 410 Food Service Management II  
(3) NUTR 464 Senior Assignment in Nutrition  
(3) KIN 412 Biology of CVD and Metabolic Disease  
(3) NUTR 421 Medical Nutrition Therapy II  
12 - Total Credits

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### Total Hours 120

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\*The University requires students earning a BS degree to complete at least eight courses in the sciences (life, physical or social), including, as part of those eight courses, two courses designated as labs (EL).

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Pharmacy

## Admission Requirements

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 Admission 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 PharmD 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 GPA of 2.75 (on a 4.0 scale) in each of the following:
  - Cumulative GPA for all post-secondary courses attempted (excluding graduate courses)
  - Pre-pharmacy curriculum GPA
- Pre-pharmacy science and mathematics GPA
- Complete a [PharmCAS application](#) 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 the [pharmacy website](#).
- 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 PharmD 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. 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 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 grade of C or better.
- Applicants must have a minimum GPA of 2.75 (on a 4.0 scale) in each of the following:
  - Cumulative GPA for all post-secondary courses attempted (excluding graduate courses)
  - Pre-pharmacy curriculum GPA
  - Pre-pharmacy science and mathematics GPA
- Complete a [PharmCAS application](#) 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 the [pharmacy website](#).
- 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 PharmD program. For more information on the CEP, contact the School of Pharmacy at [pharmacy@siue.edu](mailto: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 PharmD curriculum.
- Pay a \$40 application fee.
- Provide the SIUE School of Pharmacy with official transcripts for all college coursework.
- Provide the SIUE School of Pharmacy with an official PCAT score if, at the time of application, the first professional year in the PharmD program in which the student is currently enrolled has not been completed.
- Have a minimum GPA of 3.0 (on a 4.0 scale) for all completed college coursework.
- Have a minimum grade of C in all college courses.

## Degree Requirements

### General Education Requirements for the Major

Students pursuing the PharmD 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

- BIOL 150, 151, 240B, 240A
- BIOL 250 or BIOL 350 (BIOL 220 is a prerequisite for BIOL 350)
- CHEM 121A, 121B, 125A, 125B, 241A, 241B, 245
- ECON 111 or ECON 112
- ENG 101, 102
- MATH 150 or MATH 145
- PHYS 131/131L
- STAT 244
- RA 101 or any PHIL
- SOC 111 or PSYC 111
- ACS 101

### Degree Requirements PharmD

- PHAS 708, 709, 716, 728N, 733N, 754, 756
- PHEP  
719A, 719B, 739A, 739B, 751, 759A, 759B, 780, 781, 782, 783, 784\*, 789
- PHPR  
710, 711, 713N, 718A, 718B, 735N, 738A, 738B, 744, 758A, 758B
- PHPS  
700, 701, 702, 703, 704, 705N, 707N, 712, 720N
- PHPT  
730A, 730B, 730C, 730D, 750A, 750B, 750C, 750D
- 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 five hours of external electives and four hours of independent study toward completion of elective hours. Exceptions can be made in certain situations for students in the concurrent degree programs with the approval of the Office of Professional and Student Affairs.

### Approved Internal Electives

PHEL 760E, 761E, 764E, 765E, 766E, 768E, 769E, 770E, 771E, 772E, 773E, 774E, 775E, 776E, 777E,

779E, 780E, 781E, 782E, 783E, 784E, 785E, 786E, 787E, 788E, 789E, 790E, 791E, 792E

### Approved External Electives

This list contains classes that may be of interest to PharmD 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 (Students cannot earn credit toward the PharmD for both SOCW 388 chemical dependency and PHEL 768 addiction.)

University of Florida

- PHA 6557 Clinical Toxicology I
- PHA 6935 Veterinary Pharmacy
- PHA 6357 Herbal and Dietary Supplements

Notre Dame of Maryland University

- PHRD 624 APhA Institute on Alcoholism and Drug Dependencies

Additional requirements may be expected for professional pharmacy students. See individual instructor for specific information.

### Retention

- Maintain a cumulative grade point average of 2.00 or higher in the professional program.

- Receive no more than six credit hours of an F and/or WF grade in any combination of didactic courses and remain eligible for graduation. All F and/or WF grades must be remediated successfully.
- Receive no more than two credit hours of “no credit” grades in pass/no credit courses and remain eligible for graduation. All “no credit” grades must be remediated successfully.
- Receive no more than one grade of F and/or WF in an advanced pharmacy practice experience, even if the initial F or WF grade was successfully remediated, and remain eligible for graduation. All F and/or WF grades must be remediated successfully.
- Remain continuously enrolled as a full-time student and complete the Doctor of Pharmacy program within six years of entering the program.
- Receive no more than one grade of F and/or WF in IPPE III or IPPE IV, even if the initial F or WF grade was successfully remediated, and remain eligible for graduation. All F and/or WF grades must be remediated successfully.
- Must successfully remediate F, WF or “no credit” grades within 12 months
- Cannot receive a second suspension

Students failing to meet the above criteria may receive academic counseling, be put on academic probation, follow a remediation plan, or receive a dismissal recommendation from the academic standards and progression committee.

### Degrees Available at SIUE

- Doctor of Pharmacy (PharmD)

### Graduation Requirements

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Students must complete the curriculum in accordance with progression guidelines to be eligible for graduation from the PharmD program.

Students are eligible to graduate when all of the following criteria have been met:

- Students must successfully complete the PharmD curriculum as approved by the faculty in the School of Pharmacy.
- Students must complete 10 credit hours of electives.

- No more than five elective credit hours can be external elective hours (except those enrolled in a concurrent program)
- No more than four elective credit hours can be independent study hours
- Students must be in academic good standing.
  - Students must have a cumulative GPA of 2.0 or above.
  - Students cannot have more than eight cumulative credit hours of D grades in courses applied towards the PharmD degree.
  - Students cannot have any F grades in courses applied towards the PharmD degree.
  - Students cannot have any “no credit” grades in courses applied towards the PharmD degree.

### Sample Pre-Pharmacy Curriculum

#### Year 1 (Fall Semester)

- (4) CHEM 121A General Chemistry I
- (1) CHEM 125A General Chemistry Lab I
- (3) ENG 101 English Composition I
- (5) MATH 150 Calculus I or MATH 145 Calculus for the Life Sciences
- (4) BIOL 150 Intro to Biological Sciences I
- 17 - Total

#### Year 1 (Spring Semester)

- (4) BIOL 151 Intro to Biological Sciences II
- (4) CHEM 121B General Chemistry II
- (1) CHEM 125B General Chemistry II Lab
- (3) ECON 111 Principles of Macroeconomics
- (3) ENG 102 English Composition II
- (3) RA 101 Reasoning & Argumentation (recommended) or any PHIL course
- 18 - Total

#### Year 2 (Fall Semester)

- (4) BIOL 240A Human Anatomy & Physiology I
- (3) CHEM 241A Organic Chemistry I
- (5) PHYS 131/PHYS 131L College Physics I
- (3) ACS 101 or ACS 103 Oral Expression
- (3) SOC 111 Introduction to Sociology or PSYC 111 Foundations of Psychology
- 18 - Total

#### Year 2 (Spring Semester)

- (4) BIOL 250 Bacteriology or 350 Microbiology\*
- (4) BIOL 240B Human Anatomy & Physiology II
- (3) CHEM 241B Organic Chemistry II
- (2) CHEM 245 Organic Chemistry Lab
- (4) STAT 244 Statistics
- 17 - Total

\*Requires BIOL 220 Genetics as prerequisite

Completion of the pre-pharmacy course requirements does not guarantee admission to the SIUE School of Pharmacy. Curricular equivalencies for courses taken at other institutions may be found [online](#). Courses that will meet the SIUE pre-pharmacy requirements may not meet the requirements for completion of other majors at SIUE. Students who plan to pursue a bachelor's degree at SIUE should consult an academic advisor with regard to applicability of courses toward degree requirements. Students who are not admitted to the School of Pharmacy, or who change career paths, may take longer than four years to complete the bachelor's degree.

### Sample PharmD Curriculum

#### 1st Professional Year (Fall Semester)

- (4) PHPS 700 Principles of Drug Action I
- (3) PHPS 702 Biochemical Principles for Pharmacy
- (2) PHPS 704 Biopharmaceutics and Drug Delivery I
- (3) PHAS 708 Health Care Systems
- (2) PHPR 711 Drug Information
- (1) PHAS 716 Ethical Issues in Health Care
- (1) PHPR 718A Pharmacy Skills Lab I
- (2) PHEP 719A Personal and Professional Development I
- 18 - Total

#### 1st Professional Year (Spring Semester)

- (2) PHPS 701 Principles of Drug Action II
- (3) PHPS 705N Biopharmaceutics and Drug Delivery II
- (1) PHPS 707N Pharmacy Calculations
- (3) PHPR 710 Biomedical Literature Evaluation
- (3) PHPS 712 Immunology and Immunization Training
- (3) PHPR 713N Self Care & Alternative Medicines

(1) PHPR 718B Pharmacy Skills Lab II  
(1) PHEP 719B Personal and Professional Development II  
17 - Total

### **2nd Professional Year (Fall Semester)**

(3) PHPS 720N Pharmacokinetics  
(2) PHAS 728N Pharmacy Management I  
(4) PHPT 730A Integrated Pharmacotherapeutics I  
(4) PHPT 730B Integrated Pharmacotherapeutics II  
(2) PHPR 735N Physical Assessment & Patient Care Skills  
(1) PHPR 738A Pharmacy Skills Lab III  
(3) PHEP 739A Personal and Professional Development III  
19 - Total

### **2nd Professional Year (Spring Semester)**

(2) PHPS 703 Principles of Pharmacogenomics  
(2) PHAS 709 Health Care and Financial Management  
(4) PHPT 730C Integrated Pharmacotherapeutics III  
(4) PHPT 730D Integrated Pharmacotherapeutics IV  
(1) PHPR 738B Pharmacy Skills Lab IV  
(3) PHEP 739B Personal and Professional Development IV  
(2) PHPR 744 Health Promotion & Literacy  
18 - Total

### **3rd Professional Year (Fall Semester)**

(2) PHAS 733N Pharmacy Law  
(4) PHPT 750A Integrated Pharmacotherapeutics V  
(4) PHPT 750B Integrated Pharmacotherapeutics VI  
(2) PHAS 756 Pharmacy and Population Health  
(1) PHPR 758A Pharmacy Skills Lab V  
(1) PHEP 759A Personal and Professional Development V  
(5) Electives  
19 - Total\*

### **3rd Professional Year (Spring Semester)**

(1) PHEP 751 Essentials of Research Application  
(2) PHAS 754 Pharmacy Management II  
(4) PHPT 750C Integrated Pharmacotherapeutics VII  
(4) PHPT 750D Integrated Pharmacotherapeutics VIII

(1) PHPR 758B Pharmacy Skills Lab VI  
(1) PHEP 759B Personal and Professional Development VI  
(5) Electives  
18 - Total\*

### **4th Professional Year (Summer/Fall Semester)**

(6) PHEP 780 APPE (Community Pharmacy)  
(6) PHEP 781 APPE (Hospital Pharmacy)  
(6) PHEP 782 APPE (Ambulatory Care)  
(6) PHEP 783 APPE (Acute Care/General Medicine)  
24 - Total

### **4th Professional Year (Spring Semester)**

(6) PHEP 784 APPE (Specialized Practice)  
(6) PHEP 784 APPE (Specialized Practice)  
(6) PHEP 784 APPE (Specialized Practice)  
(3) PHEP 789 APPE (ImPaCT [Improving Patient Care for Tomorrow])  
21 - Total

\*Total credits vary depending on number of elective credits taken. Students are required to accumulate a total of 10 elective credits for graduation.

The PharmD 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" ImPaCT rotation during which

students design and complete a project in

cooperation with a preceptor and under the guidance of the ImPaCT coordinator.



# Philosophy

## Admission Requirements

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.

## 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 about transfer, please visit the [transfer website](#).

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

### Philosophy Course Requirements (33 hours)

#### 1. History of Philosophy (6 hours)

- PHIL 300 - Classical Greek Philosophy
- PHIL 304 (Eighteenth Century Philosophy) or PHIL 307 (Seventeenth Century Philosophy)

#### 2. Area Requirements (12 hours, one course from each of the following areas):

##### Metaphysics and Epistemology

- PHIL 310 - Theories of Knowledge
- PHIL 312 - Philosophical Logic
- PHIL 330 - Metaphysics

- PHIL 345 - Women, Knowledge, and Reality
- PHIL 350 - Philosophy of Mind
- PHIL 355 - Philosophy of Language
- PHIL 497 - Topics in Metaphysics

##### 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

##### 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

##### Religion

- 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 - Deductive Logic

- PHIL 226 - Philosophy and Film
- PHIL 228 - Philosophy and Literature
- PHIL 235 - Existentialism
- PHIL 242 - Philosophy of Technology
- PHIL 301 - Medieval Western Philosophy
- PHIL 302 - Hellenistic Philosophy
- PHIL 303 - Nineteenth Century Western Philosophy
- 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 Bachelor of Arts:

- 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 Bachelor of Science:

- Second LAB experience
- 8 courses (24 hours) in life, physical or social sciences
- Additional electives (12-18 hours)

### Bachelor of Arts 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 (six hours), PHIL 480 (three hours) and PHIL 490 (three hours), 12 hours selected from four subject areas, and nine hours of PHIL electives. The requirements for the law specialization include nine hours of required courses (six of which replace electives and three of which may be applied to the value theory area), three hours from a new subject area in political and legal theory (replaces the remaining elective), and three 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 Courses (9 hours)

- PHIL 213 - 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 five additional courses outside of philosophy to complete the pre-law minor. See the pre-law section of the [undergraduate academic 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

### Foreign Language

It is recommended that students satisfy the eight hours of foreign language required for the BA with Latin 101 and Latin 102.

### Retention and Academic Standards

Maintain a cumulative grade point average of 2.0.

### General Education Requirements (35 hours)

University general education requirements are outlined in the general education section of the [undergraduate academic catalog](#) and included in the sample curriculum outlines. Some general education requirements may be satisfied while completing this major.

### Degrees Available at SIUE

- Bachelor of Arts, Philosophy (specialization available in the following)
  - [Law](#)
- Bachelor of Science, Philosophy

### 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 four-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.

## Philosophy Minor Requirements

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### 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

### Sample Curriculum for the Bachelor of Arts in Philosophy

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#### Year 1 (Fall Semester)

- (3) ENG 101 English Composition
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (3) **RA 101** Reasoning and Argumentation, or PHIL 212
  - (3) QR 101 Quantitative Reasoning, or MATH 150 or higher
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 14 - Total Credits
- 

#### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
  - (4) **FL 102** Elementary Foreign Language II (BICS, EGC)
  - (3) ACS 101 Public Speaking
  - (3) Breadth Life Science (BLS)
  - (3) **100-200 level PHIL Elective** (BHUM)
  - 16 - Total Credits
-

## Year 2 (Fall Semester)

(3) PHIL 300 (BHUM, EGC)  
(3) Breadth Fine and Performing Arts (BFPA)  
(3) Breadth Physical Science (BPS)  
(1) Life, Physical or Social Science with a Lab Experience (EL)  
(3) Breadth Social Science (BSS)  
(1) Health Experience (EH)  
14 - Total Credits

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## Year 2 (Spring Semester)

(3) PHIL 307 or PHIL 304 (BHUM)  
(3) PHIL (Value Theory) (BHUM)  
(3) Minor  
(3) Minor  
(4) Elective  
16 - Total Credits

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## Year 3 (Fall Semester)

(3) PHIL (Metaphysics and Epistemology) (BHUM)  
(3) PHIL Elective (BHUM)  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
(3) Minor  
15 - Total Credits

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## Year 3 (Spring Semester)

(3) PHIL (Cultural Pluralism) (BHUM, EUSC)  
(3) PHIL (Religion) (BHUM)  
(3) PHIL Elective (BHUM)  
(3) Minor  
(3) Minor  
15 - Total Credits

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## Year 4 (Fall Semester)

(3) PHIL 480 Senior Assignment (SRA)  
(3) Minor/Elective  
(3) Minor/Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

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## Year 4 (Spring Semester)

(3) PHIL 490 Philosophy Seminar  
(3) Elective  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

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## Total Hours 120

## Sample Curriculum for the Bachelor of Science in Philosophy

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### Year 1 (Fall Semester)

(3) ENG 101 English Composition I  
(3) **RA 101** Reasoning and Argumentation, or **PHIL 212**  
(3) QR 101 Quantitative Reasoning or MATH 150 or higher  
(3) Breadth Social Sciences (BSS)  
(1) FST 101 Succeeding & Engaging at SIUE  
(2) Elective  
15 - Total Credits

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### Year 1 (Spring Semester)

(3) ENG 102 English Composition II  
(3) ACS 101 Public Speaking  
(3) Life Science (BLS)  
(3) **100-200 Level PHIL** Elective  
(3) Breadth Information and Communication in Society (BICS) (**PHIL 213**)  
15 - Total Credits

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### Year 2 (Fall Semester)

(3) PHIL 300 (BHUM, EGC)  
(3) Breadth Fine and Performing Arts (BFPA)  
(3) Breadth Physical Science (BPS)  
(3) Breadth Life, Physical or Social Science (BLS, BPS or BSS)  
(1) Life, Physical or Social Science with a Lab Experience (EL)  
(3) Minor  
16 - Total Credits

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## Year 2 (Spring Semester)

(3) PHIL 304 or PHIL 307  
(3) PHIL (Value Theory)  
(3) Breadth Life, Physical or Social Sciences (BLS, BPS or BSS)  
(1) Life, Physical or Social Sciences with Lab Experience (EL)  
(3) Minor  
(1) Health Experience (EH)  
14 - Total Credits

---

## Year 3 (Fall Semester)

(3) PHIL (Metaphysics and Epistemology)  
(3) PHIL Elective  
(3) Interdisciplinary Studies (IS)  
(3) Breadth Life, Physical or Social Science (BLS, BPS or BSS)  
(3) Minor  
15 - Total Credits

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## Year 3 (Spring Semester)

(3) PHIL (Cultural Pluralism) (EUSC)  
(3) PHIL (Religion)  
(3) Breadth Life, Physical or Social Science (BLS, BPS or BSS)  
(3) Minor  
(3) Minor  
15 - Total Credits

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## Year 4 (Fall Semester)

(3) PHIL 480 Senior Assignment (SRA)  
(3) Breadth Life, Physical or Social Science (BLS, BPS or BSS)  
(3) Minor  
(3) Minor/Elective  
(3) Minor/Elective  
15 - Total Credits

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## Year 4 (Spring Semester)

(3) PHIL 490 Philosophy Seminar  
(3) Elective  
(3) Elective  
(3) Elective

(3) Elective  
15 - Total Credits

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## Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum for the Bachelor of Arts in Philosophy, Specialization in Law

### Year 1 Fall Semester

(3) ENG 101 English Composition  
(4) LAT 101 or other **FL 101** (BICS)  
(3) **RA 101** Reasoning and Argumentation, or PHIL 212  
(3) QR 101 Qualitative Reasoning, or MATH 150 or higher  
(1) FST 101 Succeeding & Engaging at SIUE  
14 - Total Credits

---

### Year 1 Spring Semester

(3) ENG 102 English Composition II  
(4) LAT 102 or other **FL 102** (BICS, EGC)  
(3) ACS 101 Public Speaking  
(3) Breadth Life Science (BLS)  
(3) PHIL 213 Deductive Logic (BICS)  
16 - Total Credits

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### Year 2 Fall Semester

(3) PHIL 300 (BHUM, EGC)  
(3) Breadth Fine and Performing Arts (BFPA)  
(3) Breadth Physical Science (BPS)  
(1) Life, Physical or Social Science with a Lab Experience (EL)  
(3) Breadth Social Science (BSS)  
(1) Health Experience (EH)

14 - Total Credits

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### Year 2 Spring Semester

(3) PHIL 307 or PHIL 304 (BHUM)  
(3) PHIL 320 Ethics or PHIL 343 Philosophy of Law (BHUM)  
(3) Minor  
(3) Minor  
(3) Elective  
15 - Total Credits

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### Year 3 Fall Semester

(3) PHIL 320 Ethics or PHIL 343 Philosophy of Law (BHUM)  
(3) PHIL 310 Theories of Knowledge or PHIL 355 Philosophy of Language (BHUM)  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
(3) Minor  
15 - Total Credits

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### Year 3 Spring Semester

(3) PHIL (Cultural Pluralism) (EUSC)  
(3) PHIL (Religion) (BHUM)  
(3) PHIL (Political and Legal Theory) (BHUM)  
(3) Minor  
(3) Minor  
15 - Total Credits

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### Year 4 Fall Semester

(3) PHIL 480 Senior Assignment (SRA)  
(3) Minor/Elective  
(3) Minor/Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 4 Spring Semester

(3) PHIL 490 Philosophy Seminar  
(3) Elective  
(3) Elective  
(3) Elective  
(4) Elective  
16 - Total Credits

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### Total Hours 120

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Physics

## Admission Requirements

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 and 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.

### Transfer

Transfer students should have a 2.0 grade point average in science and mathematics courses as well as a 2.0 grade point average in courses taken at other colleges and universities.

## Degree Requirements

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 Master of Arts in Teaching 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 and exoplanet research, and biophysical characterization and 3D structure determination of proteins using x-ray crystallography, 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.

### Requirements for the Major

While fulfilling University general education requirements all physics majors are required to complete the following:

#### Degree Requirements, Bachelor of Science in Physics

- CHEM 131, 135
- CS 145

- MATH 150, 152, 250, 305, 321
- ENG 334
- PHYS  
120, 151, 151L, 152, 152L, 201, 201L, 251, 304, 314, 318, 321, 323, 376, 406, 416, 499A, 499B
- IS 364

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 in Physics with Specialization in Astronomy**

- CHEM 131, 135
- CS 145
- MATH 150, 152, 250, 305, 321
- ENG 334
- PHYS  
120, 151, 151L, 152, 152L, 201, 201L, 230, 251, 304, 318, 321, 323, 376, 406, 416, 410, 343, 499A, 499B
- IS 364

Elective: One of the following - PHYS 240, 314, 343, 396, 397, 398, 442, 450, 472, 496, 497, 498

### **Degree Requirements, Bachelor of Science in Physics with Specialization in Biomedical Physics**

- CHEM 121A, 121B, 125A, 125B, 241A
- CS 145
- BIOL 150
- MATH 152, 250, 305, 321
- ENG 334
- PHYS  
120, 151, 151L, 152, 152L, 201, 201L, 240, 251, 304, 318, 321, 323, 406, 442, 499A, 499B
- IS 364

Elective: One of the following - PHYS 230, 314, 343, 392, 410, 416, 472, 492

### **Degree Requirements, Bachelor of Science in Physics with Specialization in Photonics and Laser Physics**

- CHEM 131, 135
- CS 145
- MATH 150, 152, 250, 305, 321
- ENG 334
- PHYS

- 120, 151, 151L, 152, 152L, 201, 201L, 251, 304, 314, 318, 321, 323, 376, 406, 410, 416, 472, 499A, 499B
- IS 364

Elective: One of the following - PHYS 230, 240, 343, 393, 397, 398, 442, 450, 472, 493, 497, 498

### **Secondary Education Teacher Licensure Option**

Students interested in the secondary education teacher licensure should complete the traditional BS in physics and subsequently enroll in a Master of Arts in Teaching program. In addition to the standard BS in physics degree, we recommend the following courses to prepare students for the teacher licensure.

- CHEM 121A, 121B, 125A, 125B, 241A
- BIOL 150, 151
- PHYS 118, 118L
- GEOG 210
- SCI 451

### **Pre-Medical Program Option**

Students interested in becoming medical students need to take the following courses in addition to the courses required for the Bachelor of Science in physics with specialization in biomedical physics.

- CHEM 241B
- CHEM 245
- BIOL 151

### **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% 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.

## General Education Requirements

University general education requirements are outlined in the General Education section of the [undergraduate academic catalog](#) and included in the sample curriculum outline.

## Degrees Available at SIUE

- Bachelor of Science, Physics (specializations available in the following)
  - [Astronomy](#)
  - [Biomedical Physics](#)
  - [Photonics and Lasers](#)
- Professional Educator Licensure (9-12) 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 six hours of credit in major courses numbered above 299 earned at SIUE within two 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.

## 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:

## Required 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 six 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.

## Sample Curriculum for the Bachelor of Science in Physics

### Year 1 (Fall Semester)

- (3) PHYS 120 Frontiers in Physics: Past and Present
- (4) **CHEM 131** Engineering Chemistry
- (1) **CHEM 135** Engineering Chemistry Lab (EL)
- (5) **MATH 150** Calculus I (QR)
- (3) ENG 101 Composition
- (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits

### Year 1 (Spring Semester)

- (3) ENG 102 Composition II
- (3) ACS 101 Public Speaking

- (5) **MATH 152** Calculus II (BPS)  
(4) **PHYS 151** University Physics I (BPS)  
(1) **PHYS 151L** University Physics I Laboratory (EL)  
16 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) **PHYS 152** University Physics II (BPS)  
(1) **PHYS 152L** University Physics II Laboratory (EL)  
(4) **MATH 250** Calculus III (BPS)  
(3) MATH 321 Linear Algebra I  
(3) RA 101 Reasoning & Argumentation  
15 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) PHYS 201 University Physics III (BPS)  
(1) PHYS 201L University Physics III Laboratory (EL)  
(4) PHYS 251 Waves  
(3) MATH 305 Differential Equations  
(1) Elective  
13 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) PHYS 416 Principles of Quantum Mechanics  
(4) PHYS 304 Intro to Quantum Physics  
(4) PHYS 321 Intro to Classical Mechanics  
(3) Elective 1\*  
15 - Total Credits
- 

### Year 3 (Spring Semester)

- (4) PHYS 323 Statistical Mechanics (Odd Year)  
(4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
or  
(3) PHYS 314 Modern Data Acquisition (Even Year)  
(3) PHYS 318 Theory and Application of Elect Measure (Even Year)  
(1) PHYS 376 Career Preparation in Physics  
(3) CS 145 Introduction to Computing  
(3) ENG 334 Scientific Writing  
13 or 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) IS 364 The Atomic Era  
(3) Fine & Performing Arts (BFPA)  
(3) Breadth Life Science and Health Experience (BLS, EH)  
(3) Breadth Humanities (BHUM)  
(3) PHYS 499A Senior Assignment Project: Part I  
15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) PHYS 314 Modern Data Acquisition (Even Year)  
(3) PHYS 318 Theory and Application of Elect Measure (Even Year)  
or  
(4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
(4) PHYS 323 Statistical Mechanics (Odd Year)  
(3) Elective 2\*  
(3) Breadth Social Sciences (BSS)  
(2) PHYS 499B Senior Assignment Project: Part II  
14 or 16 - Total Credits
- 

### Total Hours 120

- \*Elective 1: PHYS 240 or PHYS 410  
\*Elective 2: Choose one of the following - PHYS 230, PHYS 343, PHYS 397, PHYS 398, PHYS 442, PHYS 450, PHYS 472, PHYS 497, PHYS 498

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Science in Physics, Specialization in Astronomy

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### Year 1 (Fall Semester)

- (3) PHYS 120 Frontiers in Physics: Past and Present  
(4) **CHEM 131** Engineering Chemistry

- (1) **CHEM 135** Engineering Chemistry Lab (EL)  
(5) **MATH 150** Calculus I (QR)  
(3) ENG 101 Composition  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) ENG 102 Composition II  
(3) ACS 101 Public Speaking  
(5) **MATH 152** Calculus II (BPS)  
(4) **PHYS 151** University Physics I (BPS)  
(1) **PHYS 151L** University Physics I Laboratory (EL)  
16 - Total Credits
- 

### Year 2 (Fall Semester)

- (4) **PHYS 152** University Physics II (BPS)  
(1) **PHYS 152L** University Physics II Laboratory (EL)  
(4) **MATH 250** Calculus III (BPS)  
(3) MATH 321 Linear Algebra I  
(3) RA 101 Reasoning & Argumentation  
15 - Total Credits
- 

### Year 2 (Spring Semester)

- (4) PHYS 201 University Physics III (BPS)  
(1) PHYS 201L University Physics III Laboratory (EL)  
(4) PHYS 251 Waves  
(3) MATH 305 Differential Equations  
(3) PHYS 230 Planetary and Solar System (Odd Year)  
or  
(3) Elective\* (Even Year)  
15 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) PHYS 416 Principles of Quantum Mechanics (Even Year)  
(4) PHYS 304 Intro to Quantum Physics  
(4) PHYS 321 Intro to Classical Mechanics  
(3) Breadth Humanities (BHUM) (Even Year)  
or  
(3) PHYS 410 Optics (Odd Year)  
15 - Total Credits
- 

### Year 3 (Spring Semester)

- (4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
(3) PHYS 230 Planetary and Solar System (Odd Year)  
(4) PHYS 323 Statistical Mechanics (Odd Year)  
or  
(3) Elective\* (Even Year)  
(3) PHYS 343 Stellar Astronomy and Astrophysics (Even Year)  
(3) PHYS 318 Theory and Application of Elect Measure (Even Year)  
(3) ENG 334 Scientific Writing  
(1) PHYS 376 Career Preparation in Physics  
13 or 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) **CS 145** Introduction to Computing  
(3) IS 364 The Atomic Era  
(3) Breadth Life Science and Health Experience (BLS, EH)  
(3) PHYS 499A Senior Assignment Project: Part I  
(3) Humanities (BHUM) (Even Year)  
or  
(3) PHYS 410 Optics (Odd Year)  
15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) PHYS 343 Stellar Astronomy and Astrophysics (Even Year)  
(3) PHYS 318 Theory and Application of Elect Measure (Even Year)  
or  
(4) PHYS 323 Statistical Mechanics (Odd Year)  
(4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
(3) Breadth Fine & Performing Arts (BFPA)  
(3) Breadth Social Sciences (BSS)  
(2) PHYS 499B Senior Assignment Project: Part II  
14 or 16 - Total Credits
- 

### Total Hours 122

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\*Elective: Choose one of the following - PHYS 240, PHYS 314, PHYS 396, PHYS 397, PHYS 398, PHYS

442, PHYS 450, PHYS 472, PHYS 496, PHYS 497,  
PHYS 498

### **Sample Curriculum for the Bachelor of Science in Physics, Specialization in Biomedical Physics**

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#### **Year 1 (Fall Semester)**

(3) PHYS 120 Frontiers in Physics: Past and Present  
(4) **CHEM 121A** General Chemistry I  
(1) **CHEM 125A** General Chemistry Lab I (EL)  
(3) ACS 101 Public Speaking  
(3) ENG 101 Composition  
(1) FST 101 Succeeding & Engaging at SIUE  
15 - Total Credits

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#### **Year 1 (Spring Semester)**

(4) **CHEM 121B** General Chemistry II  
(1) **CHEM 125B** General Chemistry Lab II (EL)  
(5) **MATH 152** Calculus II (BPS)  
(4) **PHYS 151** University Physics I (BPS)  
(1) **PHYS 151L** University Physics I Laboratory (EL)  
15 - Total Credits

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#### **Year 2 (Fall Semester)**

(4) **PHYS 152** University Physics II (BPS)  
(1) **PHYS 152L** University Physics II Lab (EL)  
(4) **MATH 250** Calculus III (BPS)  
(3) ENG 102 Composition II  
(3) RA 101 Reasoning & Argumentation  
15 - Total Credits

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#### **Year 2 (Spring Semester)**

(4) PHYS 201 University Physics III (BPS)  
(1) PHYS 201L University Physics III Lab (EL)  
(4) PHYS 251 Waves  
(4) **BIOL 150** Introduction to Biological Science  
(BLS)  
(1) Health Experience (EH)  
14 - Total Credits

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#### **Year 3 (Fall Semester)**

(3) **CS 145** Introduction to Computer  
(3) **CHEM 241A** Organic Chemistry I

(4) PHYS 304 Intro to Quantum Physics  
(4) PHYS 321 Intro to Classical Mechanics  
(3) PHYS 240 Intro to Biomedical Physics (Even  
Year)  
or  
(3) Elective 1\* (Odd Year)  
17 - Total Credits

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#### **Year 3 (Spring Semester)**

(4) PHYS 323 Statistical Mechanics (Odd Year)  
(4) PHYS 406 Electromagnetic Fields and Waves  
(Odd Year)  
(3) PHYS 442 Topics in Medical Physics (Odd Year)  
or  
(3) MATH 321 Linear Algebra (Even Year)  
(3) Breadth Social Sciences (BSS) (Even Year)  
(3) PHYS 318 Theory and Application of Elect  
Measure (Even Year)  
(3) MATH 305 Differential Equations  
(3) ENG 334 Scientific Writing  
15 or 17 - Total Credits

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#### **Year 4 (Fall Semester)**

(3) PHYS 240 Intro to Biomedical Physics (Even  
Year)  
or  
(3) Elective 1\* (Odd Year)  
(3) Breadth Humanities (BHUM)  
(3) Fine and Performing Arts (BFPA)  
(3) PHYS 499A Senior Assignment Project: Part I  
(3) IS 364 The Atomic Era  
15 - Total Credits

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#### **Year 4 (Spring Semester)**

(4) PHYS 323 Statistical Mechanics (Odd Year) or  
(4) PHYS 406 Electromagnetic Fields and Waves  
(Odd Year) or  
(3) PHYS 442 Topics in Medical Physics (Odd Year)  
or  
(3) Breadth Social Sciences (BSS) (Even Year)  
(3) PHYS 318 Theory and Application of Elect  
Measure (Even Year)  
(3) MATH 321 Linear Algebra (Even Year)  
(1) Elective\*  
(2) PHYS 499B Senior Assignment Project: Part II

12 or 14 - Total Credits

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### Total Hours 120

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\*Elective: Choose one of the following - PHYS 230, PHYS 314, PHYS 343, PHYS 392, PHYS 410, PHYS 416, PHYS 472, PHYS 492

### Sample Curriculum for the Bachelor of Science in Physics, Specialization in Photonics and Laser Physics

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#### Year 1 (Fall Semester)

(3) PHYS 120 Frontiers in Physics: Past and Present  
(4) **CHEM 131** Engineering Chemistry  
(1) **CHEM 135** Engineering Chemistry Lab (EL)  
(5) **MATH 150** Calculus I (QR)  
(3) ENG 101 Composition  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

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#### Year 1 (Spring Semester)

(3) ENG 102 Composition II  
(3) ACS 101 Public Speaking  
(5) **MATH 152** Calculus II (BPS)  
(4) **PHYS 151** University Physics I (BPS)  
(1) **PHYS 151L** University Physics I Lab (EL)  
16 - Total Credits

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#### Year 2 (Fall Semester)

(4) **PHYS 152** University Physics II (BPS)  
(1) **PHYS 152L** University Physics II Lab (EL)  
(4) **MATH 250** Calculus III (BPS)  
(3) MATH 321 Linear Algebra I  
(3) RA 101 Reasoning & Argumentation  
15 - Total Credits

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#### Year 2 (Spring Semester)

(4) PHYS 201 University Physics III (BPS)  
(1) PHYS 201L University Physics III Laboratory (EL)  
(4) PHYS 251 Waves  
(3) MATH 305 Differential Equations  
(3) Breadth Humanities (BHUM)

15 - Total Credits

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#### Year 3 (Fall Semester)

(4) PHYS 304 Intro to Quantum Physics  
(4) PHYS 321 Intro to Classical Mechanics  
(4) PHYS 416 Principles of Quantum Mechanics  
(3) Breadth Fine and Performing Arts (BFPA) (Even Year)  
or  
(3) PHYS 410 Optics (Odd Year)  
15 - Total Credits

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#### Year 3 (Spring Semester)

(3) Breadth Life Sciences (BLS) and Health Experience (EH) (Odd Year)  
(4) PHYS 323 Statistical Mechanics (Odd Year)  
(4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
or  
(3) PHYS 314 Modern Data Acquisition (Even Year)  
(3) PHYS 318 Theory and Application of Electronic Measure (Even Year)  
(3) PHYS 472 Photonics Lab (Even Year)  
(1) PHYS 376 Career Preparation in Physics  
(3) ENG 334 Scientific Writing  
13 or 15 - Total Credits

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#### Year 4 (Fall Semester)

(3) **CS 145** Introduction to Computing  
(3) IS 364 The Atomic Era  
(3) Elective\*  
(3) PHYS 499A Senior Assignment Project: Part I  
(3) PHYS 410 Optics (Odd Year)  
or  
(3) Breadth Fine and Performing Arts (BFPA) (Even Year)  
15 - Total Credits

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#### Year 4 (Spring Semester)

(4) PHYS 323 Statistical Mechanics (Odd Year)  
(4) PHYS 406 Electromagnetic Fields and Waves (Odd Year)  
(3) Breadth Life Sciences (BLS) and Health

Experience (EH) (Odd Year)

or

(3) PHYS 314 Modern Data Acquisition (Even Year)

(3) PHYS 416 Principles of Quantum Mechanics  
(Even Year)

(3) PHYS 472 Photonics Lab (Even Year)

(3) Breadth Social Sciences (BSS)

(2) PHYS 499B Senior Assignment Project: Part II

14 or 16 - Total Credits

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**Total Hours - 122**

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\*Elective: Choose one of the following - PHYS 230, PHYS 240, PHYS 343, PHYS 393, PHYS 397, PHYS 398, PHYS 442, PHYS 450, PHYS 472, PHYS 493, PHYS 497, PHYS 498

# Political Science

## Admission Requirements

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
- A minimum overall GPA of 2.0. This requirement also applies to any transfer 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 regarding transfer, please visit the [transfer website](#).

## Degree Requirements

### Major Requirements (33 hours)

- POLS 111
- POLS 112
- POLS 300
- POLS 400

A minimum of three hours in four of the following six fields:

#### American Government and Politics

- 340 - The Presidency
- 341 - Congress
- 342 - American Public Policy
- 343 - American State Politics
- 344 - Urban Politics
- 345 - Parties and Interest Groups
- 346 - Public Opinion
- 390 - The Judicial System
- 440 - 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

- 370 - 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
- 489 - 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 and Public Affairs (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.

### Requirements for Students Seeking Professional Educator Licensure

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 student teaching

Returning students who hold a degree in political science must complete POLS 430, review for teacher licensure.

### 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.

### 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.

### General Education Requirements

University general education requirements are outlined in the general education section of the [undergraduate academic catalog](#) and included in the sample curriculum.

Students electing completion of a Bachelor of Arts



degree must complete eight courses in fine and performing arts or humanities including one year of the same foreign language.

### Degrees Available at SIUE

- Bachelor of Arts, Political Science
- Bachelor of Science, Political Science
- [Professional Educator Licensure \(9-12\) program](#)

### 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 GPA of 2.0 in all political science classes taken at SIUE.

### Minor Requirements

The requirements for a minor in political science include the following:

- A minimum of 18 hours, including POLS 111 and 112
- At least one course in three of the six areas of specialization
- A minimum grade point average of C is required in political science courses

### Admission of 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 Science and the School of Education, Health and Human Behavior. Therefore, as soon as they know they would like to pursue this option, it is essential that students 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. 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. Overall GPAs will be calculated based on all college courses taken at all institutions. All political science courses must be at a grade of 3.0 or higher to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking professional educator licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found on the [School of Education, Health and Human Behavior section](#) of the undergraduate academic catalog or by making an appointment with a School of Education, Health and Human Behavior advisor.

### Requirements for Students Seeking Professional Educator Licensure

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 student teaching

Returning students who hold a degree in political science must complete POLS 430, review for teacher licensure.

### **Sample Curriculum for the Bachelor of Arts or Bachelor of Science in Political Science, Professional Educator Licensure**

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#### **Year 1 (Fall Semester)**

- (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) GEOG 201 World Regions (BSS, EGC)
  - (3) SOC 111 Intro to Sociology (BSS)
  - (3) **POLS 112** Introduction to American National Government and Politics (BSS)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits
- 

#### **Year 1 (Spring Semester)**

- (3) **POLS 111** Intro to Political Science (BSS, EGC)
  - (3) ENG 102 English Composition II
  - (3) RA 101 Reasoning and Argumentation
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) GEOG 205 Human Geography (BSS, EGC, EL)
  - (3) GEOG 210 Physical Geography (BPS, EL)
- 15 - Total Credits
- 

#### **Year 2 (Fall Semester)**

- (3) QR 101, MATH 150 or Higher
  - (3) ECON 111 Principles of Macroeconomics (BSS)
  - (3) Breadth Life Science (BLS)/Health Experience (EH)
  - (3) ANTH 111B Human Culture & Communication (BSS, EGC, EUSC)
  - (3) POLS (Subfield #1)
  - (3) POLS Elective
- 18 - Total Credits
- 

#### **Year 2 (Spring Semester)**

- (3) HIST 130A or HIST 130B History of Black America
  - (3) HIST 112A World History (BHUM, EGC)
  - (3) POLS (Subfield #2)
  - (3) POLS (Subfield #3)
  - (3) Life, Physical or Social Science with a lab (EL)
  - (3) ECON 112 Principles of Microeconomics (BSS)
  - (3) POLS Elective
- 21 - Total Credits
- 

#### **Year 3 (Fall Semester)**

- (1) CIED 302 Field Experience II
  - (3) POLS 300 Introduction to Political Analysis (BSS, EL)
  - (3) CIED 310 Planning for Diverse Learners
  - (3) IT 300 Digital Learning and Communications (BICS)
  - (3) CIED 312 Language and Communication (BICS)
  - (3) POLS (Subfield #4)
  - (3) Interdisciplinary Studies (IS)
- 19 - Total Credits
- 

#### **Year 3 (Spring Semester)**

- (3) POLS 400 Political Science Senior Assignment
  - (3) POLS Elective
  - (3) HIST 112B World History (BHUM, EGC)
  - (1) CIED 303 Field Experience III
  - (3) CIED 323 Adolescent Content Literacy
  - (3) SPE 400 The Exceptional Child
- 16 - Total Credits
- 

#### **Year 4 (Fall Semester)**

- (3) CIED 313 Introduction to Assessment
  - (3) CIED 311 Differentiated Instruction
  - (3) CIED 314 Learning Environments
  - (1) CIED Field Experience IV
  - (3) HIST 323 History/Pedagogy
- 13 - Total Credits
- 

#### **Year 4 (Spring Semester)**

- (2) CIED 456 9-12 Seminar
- (10) CIED 455J 9-12 Student Teaching-Political

Science  
12 - Total Credits

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### Total Hours 130

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

### Sample Curriculum for the Bachelor of Arts or Bachelor of Science in Political Science

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#### Year 1 (Fall Semester)

(3) ENG 101 English Composition I  
(3) ACS 101 Public Speaking  
(3) Fine & Performing Arts (BFPA)  
(3) Breadth Humanities (BHUM)/Experience United States Cultures (EUSC)  
(3) Breadth Information & Communication in Society (BICS)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 (Spring Semester)

(3) **POLS 111** Intro to Political Science (BSS, EGC)  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning and Argumentation  
(3) Breadth Life Science (BLS) with a Lab Experience (EL)  
(3) Fine & Performing Arts or Humanities (BA degree)  
15 - Total Credits

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#### Year 2 (Fall Semester)

(3) **POLS 112** American National Government (BSS)  
(3) QR 101, MATH 150 or Higher  
(3-4) FL 101 Elementary Foreign Language I (BA degree) or Life, Physical or Social Science with a lab

(EL) (BS degree)  
(3) Minor  
(3) Minor  
15-16 - Total Credits

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#### Year 2 (Spring Semester)

(3) POLS (Subfield #1)  
(3) Health Experience (EH)  
(4) FL 102 Elementary Foreign Language II (BA degree)  
(3) Fine & Performing Arts or Humanities (BA degree)  
(3) Minor  
16 - Total Credits

---

#### Year 3 (Fall Semester)

(3) POLS (Subfield #2)  
(3) POLS 300 (BSS, EL)  
(3) Minor  
(3) Fine & Performing Arts or Humanities (BA degree)  
(3) Breadth Physical Science (BPS)  
15 - Total Credits

---

#### Year 3 (Spring Semester)

(3) POLS (Subfield #3)  
(3) POLS Elective  
(3) Minor  
(3) Minor/Elective  
(3) Fine & Performing Arts or Humanities (BA degree)  
15 - Total Credits

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#### Year 4 (Fall Semester)

(3) POLS (Subfield #4)  
(3) POLS 400 Political Science Senior Assignment  
(3) Minor  
(2) Elective  
(3) Interdisciplinary Studies (IS)  
14 - Total Credits

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## Year 4 (Spring Semester)

(3) POLS Elective  
(3) POLS Elective  
(3) Elective  
(3) Elective  
(2) Elective  
14 - Total Credits

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### Total Hours 120

Students wishing to obtain a Bachelor of Arts degree may do so by adding one year of foreign language.

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# Psychology

## Admission Requirements

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.

### 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.

## Degree Requirements

### 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.

### General Education Requirements for the Major

- Foundations Courses (15 hours)
- Breadth Courses (18 hours)
- Interdisciplinary Studies (3 hours)
- Experience Courses (15 hours)
- 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 BA and BS Major

- PSYC 111, 200, 206, 208, 220, 221, and 494
- PSYC 201, 203, 204, or 205

Four electives at the 300 and 400 level (six hours at the 400 level)

No more than nine hours of 491, 493 and 496 collectively (and no more than six hours in any one of these courses) may be applied toward psychology major requirements. No more than three 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.

## 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.

## Degrees Available at SIUE

- Bachelor of Arts, Psychology
- Bachelor of Science, Psychology

## 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 four-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.

## 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, six must be at the 200 level, another six at the 300 level, and the last six 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.

## Sample Curriculum for the Bachelor of Arts in Psychology

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### Year 1 (Fall Semester)

- (3) **PSYC 111** Foundations of Psychology (BSS)
  - (3) ACS 101 Public Speaking
  - (3) ENG 101 English Composition I
  - (4) FL 101 Elementary Foreign Language I (BICS)
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) PSYC 200 Careers in Psychology
  - (3) ENG 102 English Composition II
  - (4) FL 102 Elementary Foreign Language II (EGC)
  - (3) RA 101 Reasoning and Augmentation
  - (3) Breadth Life Science (BLS)/Health Experience (EH)
- 16 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **PSYC 201, PSYC 203 or PSYC 204** (Developmental PSYC Course)
  - (3) PSYC 220 Research Design & Statistics I
  - (3) Breadth Physical Science (BPS) with a lab (EL)
  - (3) Breadth Humanities (BHUM)/United States Culture (EUSC)
  - (3) Fine & Performing Arts or Humanities
- 15 - Total Credits
- 

### Year 2 (Spring Semester)

- (3) **PSYC 206** Social Psychology
- (3) PSYC 221 Research Design & Statistics II
- (3) Fine & Performing Arts or Humanities
- (3) Minor
- (3) QR 101 or MATH 150

15 - Total Credits

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### Year 3 (Fall Semester)

(3) PSYC 208 Cognitive Psychology  
(3) PSYC Elective (300-400 level)  
(3) Fine & Performing Arts or Humanities  
(3) Fine & Performing Arts or Humanities  
(3) Minor  
15 - Total Credits

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### Year 3 (Spring Semester)

(3) PSYC Elective (300-400 level)  
(3) Interdisciplinary Studies (IS)  
(3) Minor  
(3) Minor  
(3) Elective  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) PSYC Elective (400 level)  
(3) PSYC Elective (400 level)

(3) Minor  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) PSYC 494 Capstone Seminar in Psychology  
(3) Minor  
(3) Minor  
(3) Elective  
12 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Public Health

## Admission Requirements

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 four 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.

### Transfer

Transfer students may be required to complete additional hours in general education to meet certification requirements.

## Degree Requirements

### General Education Requirements for the Major

Foundations Courses

- ENG 101
- ENG 102
- RA 101
- ACS 101
- 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 two BSS courses

Experiences

- Lab (EL) - Any EL
- Health (EH) - PBHE 111, 210, 213, 220, 230, or 240
- Global Cultures (EGC)- Any EGC
- United States Cultures (EUSC) - Any EUSC
- Interdisciplinary Studies Course (IS)

First Semester Transition (FST) 101 Succeeding & Engaging at SIUE

### Degree Requirements - Bachelor of Science

Public Health Core Major Requirements

- PBHE 111, 305, 353, 355, 363, 370, 375, 405, 410, 420, 455, 490, 491, 495, 498, 499

Approved Major Electives (12 or more hours from the following or from appropriate disciplines approved by the advisor)

- PBHE 210, 220, 213, 230, 240, 462, 464, 470, 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.

### Retention

To be retained, majors must:

- Maintain a cumulative GPA of 2.5 in their SIUE coursework
- 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.

## Degrees Available at SIUE

- Bachelor of Science, Public Health

## 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 four-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.

## 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 a grade of C or better

To be retained, minors must:

- Maintain a cumulative 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 minors 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 in the next semester, the student's minor will be removed, and an advisor will review other minor options at SIUE with the student.

## Sample Curriculum for the Bachelor of Science in Public Health

### Year 1 (Fall Semester)

- (3) ENG 101 English Composition I
- (3) RA 101 Reasoning & Argumentation
- (3) ACS 101 Public Speaking
- (3) Any Breadth Social Science (\*BSS)
- (3) Life, Physical or Social Science with a lab (\*EL)
- (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits

### Year 1 (Spring Semester)

- (3) **STAT 107** or **STAT 244** (\*BICS)
- (3) ENG 102 English Composition II
- (3) **PBHE 111** (EH) Personal Health
- (3) **CMIS 108** or **CS 108** (BICS)
- (3) **BIOL 111** (BLS) Contemporary Biology
- 15 Total Credits

### Year 2 (Fall Semester)

- (3) Breadth Life, Physical or Social Science (\*BLS/BPS/BSS)/Experience United States Cultures (EUSC)
- (3) Breadth Fine & Performing Arts (BFPA)
- (3) Breadth Humanities (BHUM)
- (3) Breadth Life, Physical or Social Science (\*BLS/BPS/BSS)
- (3) QR 101 Quantitative Reasoning
- 15 - Total Credits

### Year 2 (Spring Semester)

- (3) BIOL 205 (\*BLS) Human Diseases
- (3) Experience Global Culture (EGC)
- (3) LS/PS/SS with lab (\*EL)
- (2) Elective
- (3) PBHE Elective

14 - Total Credits

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### Year 3 (Fall Semester)

(3) PBHE 305 Foundation of Community Health  
(3) PBHE 353 Public Health Data Analysis  
(3) PBHE 355 Intro to Public Health  
(3) PBHE 410 Environmental Health  
(3) PBHE Elective  
15 - Total Credits

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### Year 3 (Spring Semester)

(3) PBHE 370 Instructional Strategies in Community Health  
(3) PBHE 375 Research Methods in Public Health  
(3) PBHE 420 Contemporary & Controversial Issues in Health  
(3) PBHE Elective  
(3) PBHE Elective  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) PBHE 363 Public Health Policy & Management  
(3) PBHE 405 Health Counseling  
(3) PBHE 455 Intro to Epidemiology  
(3) PBHE 490 Program Planning in Community Health

(3) Interdisciplinary Studies  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) PBHE 495 Grant Writing in Public Health  
(3) PBHE 498 Senior Research Assignment  
(6) PBHE 499 Internship in Public Health  
(3) PBHE 491 Program Planning & Evaluation in Community Health  
15 - Total Credits

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### Total Hours 120

The University requires students earning a Bachelor of Science degree to complete at least eight courses in the sciences (life, physical or social)\*, including, as part of those eight courses, two courses designated as labs (EL)\*.

**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Rotc

### 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](http://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](http://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.

## Secondary Teacher

### Admission Requirements

#### 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 Science (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 any student desiring teacher licensure review Teacher Licensure requirements in the [SEHHB section of this catalog](#) and meet with an advisor in the [SEHHB student services](#) for information about admission requirements to courses leading to the professional educator licensure. Scheduling these required courses involves early and frequent coordination between the student; CAS advisor; department faculty mentor; and SEHHB advisor. An overall GPA of 2.5 is required for admission to the teacher licensure program. Overall GPAs will be calculated based on all college courses taken at all institutions. All geography courses must be at a grade of 3.0 or higher to student teach. No course with a grade less than a "C" will be applied to meet professional educator licensure requirements.

Students seeking professional educator licensure (PEL) must meet specific general education and professional education requirements and must pass state and licensure tests prior to admission, 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 [SEHHB section](#) of the undergraduate academic catalog or by making an appointment with an SEHHB advisor.

#### Application Process

Some students pursuing the Professional Educator Licensure may need to apply with their content area program. All students pursuing the Professional Educator Licensure must complete an online application available on the [SEHHB website](#). The coursework for the PEL (9-12) licensure is intended to take two years, with applications being accepted in the spring of the sophomore year.

#### Transfer

Transfer students should contact an advisor in the SEHHB student services as early as possible to discuss transfer procedures.

### Degree Requirements

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.

## **Student Teaching**

Students should not attempt to take, and should not be advised to take, additional courses other than CI 455 and CI 456 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.

## **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**

- ENG 101
- ENG 102
- ACS 101

- RA 101
- QR 101

### **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, Health and Human Behavior advisors for specific available options.

### **Professional Education**

Art and music follow a different set of professional education requirements as listed in the appropriate sections of the undergraduate academic catalog.

A grade of C or better is required in all professional education courses.

- CIED 302, 303, 304, 310, 311, 312, 313, 314, 323, 455, 456
- IT 300
- SPE 400

### **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.

### **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.

# Social Work

## Admission Requirements

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 BSW 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 composition 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.

## 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.

## Degree Requirements

While fulfilling University general education requirements all social work majors are required to complete the following:

Foundations



- ENG 101
- ENG 102
- RA 101
- ACS 101
- QR 101

#### Breadth-Humanities

- ENG 201

#### Breadth-Life Science

- BIOL 111

#### Breadth-Social Sciences

- ANTH 111
- BHIST 201
- POLS 112
- PSYC 111
- PSYC 206

#### Degree Requirements

- SOCW  
200, 201, 211, 301, 302, 303, 315, 316, 390, 400,  
401, 480, 481, 482, 483
- BIOL 111

#### Social Work Electives (9 hours)

Note: No academic minor is required for social work majors; however, a minor in the social or behavioral sciences is strongly encouraged.

### 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.

### General Education Requirements

University general education requirements are outlined in the general education section of the [undergraduate academic catalog](#) and included in the sample curriculum outline.

### Degrees Available at SIUE

- Bachelor of Social Work

### 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.

### Sample Curriculum for the Bachelor of Social Work

#### Year 1 (Fall Semester)

- (3) **BIOL 111** Contemporary Biology (BLS)
- (3) **ENG 101** English Composition I

- (3) **PSYC 111** Introduction to Psychology (BSS)

- (3) **ACS 101** Public Speaking

- (3) **QR 101**, MATH 150 or Higher
- (1) **FST 101** Succeeding & Engaging at SIUE

16 - Total Credits

### Year 1 (Spring Semester)

- (3) **ANTH 111B** Human Culture & Comm (BSS, EGC, EUSC)
  - (3) **ENG 102** English Composition II
  - (3) **RA 101** Reasoning & Argumentation
  - (3) **POLS 112** American National Government (BSS)
  - (3) Elective
- 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) **HIST 201** U.S. History Since 1877 (BSS)
  - (3) **PSYC 206** Social Psychology (BSS)
  - (4) Breadth Physical Science (BPS) with a lab (EL)
  - (4) **Foreign Language 101** or BICS Elective
- 14 - Total Credits
- 

### Year 2 (Spring Semester)

- (2) Elective
  - (3) Breadth Fine & Performing Arts (BFPA)
  - (3) Lab (EL)/Health Experience (EH)
  - (4) **Foreign Language 102**/Elective
- 12 - Total Credits
- 

### Year 3 (Fall Semester)

- (4) SOCW 200 Foundations of Social Work I
  - (3) 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)
- 16 - Total Credits
- 

### Year 3 (Spring Semester)

- (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
- 15 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) SOCW 400 Social Work Practice III
  - (3) SOCW 480 Research Methods in Social Work
  - (4) SOCW 482 Field Instruction I
  - (3) SOCW Elective
  - (3) Interdisciplinary Studies (IS)
- 16 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) SOCW 401 Social Welfare Policy Analysis
  - (3) SOCW 481 Statistics for Social Work
  - (4) SOCW 483 Field Instruction II
  - (3) SOCW Elective
  - (3) SOCW Elective
- 16 - Total Credits
- 

### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or

receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful

course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Sociology

## Admission Requirements

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.

### 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.

## Degree Requirements

- SOC 111, 301, 302, 303, 493, 495
- Sociology electives (18 hours)
- Students must also declare and complete a minor in another department.

### Employment Relations Specialization

Students with an interest in employment relations will complete the following:

- SOC 111, 301, 302, 303, 338, 431, 433
- Sociology electives (15 hours)
- Students must also declare and complete a minor in another department.

### Diversity and Social Justice Specialization

Students with an interest in diversity and social justice will complete the following:

- SOC 111, 301, 302, 303, 325, 411, 433
- Sociology electives (15 hours)

- Students must also declare and complete a minor in another department.

## 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.

## 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

## Retention

Students majoring in sociology are required to maintain a cumulative average of 2.0 (C) or above in their sociology courses.

## General Education Requirements

University general education requirements are outlined in the general education section of the [undergraduate academic 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 six courses in fine and performing arts or humanities.

## Degrees Available at SIUE

- Bachelor of Arts, Sociology
- Bachelor of Science, Sociology (specializations available in the following)
  - [Diversity and Social Justice Studies](#)
  - [Employment Relations](#)

## 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.

## 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, Bachelor of Science in Sociology

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Sample curriculum for the Bachelor of Science in general sociology shown below. Students wishing to obtain a Bachelor of Arts degree may do so by adding one year of foreign language, as well as four additional courses in fine and performing arts or humanities.

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### Year 1 (Fall Semester)

- (3) **SOC 111** Introduction to Sociology (BSS)
- (3) **ANTH 111B** Human Culture & Communication (BSS, EGC, EUSC) (Recommended)
- (3) QR 101, MATH 150 or Higher
- (3) ENG 101 English Composition I
- (3) ACS 101 Public Speaking
- (1) FST 101 Succeeding & Engaging at SIUE
- 16 - Total Credits

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### Year 1 (Spring Semester)

- (3) ENG 102 English Composition II
- (3) RA 101 Reasoning & Argumentation
- (3) Breadth Fine & Performing Arts (BFPA)
- (3) Breadth Humanities (BHUM)
- (3) Breadth Information & Communication in Society (BICS)
- 15 - Total Credits

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### Year 2 (Fall Semester)

- (3) **SOC Elective**
  - (3) Breadth Life Science (BLS) with a lab (EL)
  - (3) Minor Elective
  - (3) Life, Physical or Social Science with a lab (EL)
  - (3) Minor Elective
  - 15 - Total Credits
-

## Year 2 (Spring Semester)

- (3) **SOC Elective (SS)**
  - (3) Breadth Physical Science (BPS)
  - (2) Health Experience (EH)
  - (3) Minor Elective
  - (3) Minor Elective
  - 14 - Total Credits
- 

## Year 3 (Fall Semester)

- (3) SOC Elective (SS)
  - (3) SOC Elective (SS)
  - (3) Interdisciplinary Studies (IS)
  - (3) Minor Elective
  - (3) Minor Elective
  - 15 - Total Credits
- 

## Year 3 (Spring Semester)

- (3) SOC 301 Survey of Theory
  - (3) SOC 302 Social Research Methods (BSS)
  - (3) SOC Elective
  - (3) Elective
  - (3) Elective
  - 15 - Total Credits
- 

## Year 4 (Fall Semester)

- (3) SOC 493 Sociological Research Workshop
  - (3) SOC 303 Stats with Computer Applications
  - (3) SOC Elective
  - (3) Elective
  - (3) Elective
  - 15 - Total Credits
- 

## Year 4 (Spring Semester)

- (3) SOC 495 Senior Assignment Seminar
  - (3) Elective
  - (3) Elective
  - (3) Elective
  - (3) Elective
  - 15 - Total Credits
- 

**Total Hours 120**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

## Sample Curriculum, Bachelor of Science in Sociology, Specialization in Diversity and Social Justice

### Year 1 (Fall Semester)

---

- (3) **SOC 111** Introduction to Sociology (BSS)
- (3) ENG 101 English Composition I
- (3) Breadth Fine & Performing Arts (BFPA)
- (3) Breadth Humanities (BHUM)/Experience Global Cultures (EGC)
- (3) Breadth Information & Communication in Society (BICS)
- 15 - Total Credits

### Year 1 (Spring Semester)

---

- (3) ENG 102 English Composition II
- (3) ACS 101 Public Speaking
- (3) **SOC Elective**
- (3) Breadth Life Science (BLS)
- (3) RA 101 Reasoning & Argumentation
- 15 - Total Credits

### Year 2 (Fall Semester)

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- (3) **SOC Elective**
- (3) Breadth Physical Science (BPS)
- (3) Life, Physical or Social Science with a lab (EL)
- (3) QR 101, MATH 150 or Higher
- (3) Elective
- 15 - Total Credits

### Year 2 (Spring Semester)

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- (3) SOC 304 Race Relations (BSS, EUSC) or SOC 308 Women, Gender & Society (BSS, EUSC) (Recommended)

- (3) SOC Elective
- (3) Elective
- (3) Heath Experience (EH)
- (3) Life, Physical or Social Science with a lab (EL)
- 15 - Total Credits

### Year 3 (Fall Semester)

---

- (3) SOC 301 Survey of Theory (BSS)
- (3) Interdisciplinary Studies (IS)
- (3) Elective
- (3) Elective
- (3) Elective
- 15 - Total Credits

### Year 3 (Spring Semester)

---

- (3) SOC 302 Social Research Methods (BSS)
- (3) SOC 303 Statistics w/Computer Apps
- (3) Elective
- (3) Elective
- (3) Elective
- 15 - Total Credits

### Year 4 (Fall Semester)

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- (3) SOC 325 Community Action (BSS)
- (3) SOC 411 Social Movements (BSS)
- (3) SOC Elective
- (3) Fine Arts & Humanities
- (3) Elective
- 15 - Total Credits

### Year 4 (Spring Semester)

---

- (3) SOC Elective
- (3) SOC 433 Internship in Sociology
- (3) Elective
- (3) Elective
- (3) Elective
- 15 - Total Credits

### Total Hours 120

Students pursuing a Bachelor of Arts degree may do so by adding one year of the same foreign language, as well as four additional courses in fine and performing arts or humanities.

## Sample Curriculum, Bachelor of Science in Sociology, Specialization in Employment Relations

### Year 1 (Fall Semester)

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- (3) **SOC 111** Introduction to Sociology (BSS)
- (3) ENG 101 English Composition I
- (3) Breadth Fine & Performing Arts (BFPA)
- (3) Breadth Humanities (BHUM)/Experience Global Cultures (EGC)
- (3) Breadth Information & Communication in Society (BICS)
- 15 - Total Credits

### Year 1 (Spring Semester)

---

- (3) ENG 102 English Composition II
- (3) ACS 101 Public Speaking
- (3) **SOC Elective**
- (3) Breadth Life Science (BLS)
- (3) RA 101 Reasoning & Argumentation
- 15 - Total Credits

### Year 2 (Fall Semester)

---

- (3) **SOC Elective**
- (3) Breadth Physical Science (BPS)
- (3) Life, Physical or Social Science with a lab (EL)
- (3) QR 101, MATH 150 or Higher
- (3) Elective
- 15 - Total Credits

### Year 2 (Spring Semester)

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- (3) SOC 304 Race Relations (BSS, EUSC) or SOC 308 Women, Gender, & Society (BSS, EUSC) (Recommended)
- (3) SOC Elective
- (3) Elective
- (3) Heath Experience (EH)
- (3) Life, Physical or Social Science with a lab (EL)
- 15 - Total Credits

### Year 3 (Fall Semester)

---

- (3) SOC 301 Survey of Theory (BSS)
- (3) Interdisciplinary Studies (IS)

(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

### **Year 3 (Spring Semester)**

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(3) SOC 302 Social Research Methods (BSS)  
(3) SOC 303 Statistics with Computer Apps  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

### **Year 4 (Fall Semester)**

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(3) SOC 338 Industry & Society (BSS)  
(3) SOC 431 Employment & Workplace Change  
(BSS)

(3) SOC Elective  
(3) Fine Arts & Humanities  
(3) Elective  
15 - Total Credits

### **Year 4 (Spring Semester)**

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(3) SOC Elective  
(3) SOC 433 Internship in Sociology  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

### **Total Hours 120**

Students pursuing a Bachelor of Arts degree may do so by adding one year of the same foreign language, as well as four additional courses in fine and performing arts or humanities.



## Special Education

### Admission Requirements

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 10 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 course work completed. These should be submitted by March 1 for fall admission.
- Please submit to:

Undergraduate Advisor for Special Education  
School of Education, Health and Human Behavior  
Student Services  
Southern Illinois University Edwardsville  
Edwardsville, IL 62026-1062

The major application is not to be confused with the application for admission to SIUE. [Apply online](#) or visit the SIUE Office of Admissions.

High school students with a strong academic record

may apply for direct declaration to the special education program. 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 graduating classes to be eligible for direct declaration to the program. Early declaration will guarantee a student admission to the program contingent upon meeting the state requirements for full admission to the program outlined above.

For more information on gainful employment programs at SIUE, visit the [financial aid website](#).

### 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.

### Degree Requirements

#### Major Requirements

University general education requirements are outlined in the general education section of the [undergraduate academic catalog](#) and included in the sample curriculum outline. Students majoring in special education should 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, 401, 402, 405, 412, 415, 416, 417A, 417B, 418, 421, 422, 430A, 430B, 441, 442, 470, 471, 481, 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.

## **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.

## **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 course work 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.

### Degrees Available at SIUE

- Bachelor of Science, Special Education

## 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.

### Sample Curriculum for the Bachelor of Science in Special Education

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#### Year 1 (Fall Semester)

(3) **MATH 112A** Mathematics for Elementary Teachers (BPS)

(3) **ENG 101** English Composition I  
(3) **SPE 100** Disabilities in Society (EUSC)  
(3) **ACS 101** Public Speaking  
(3) SCI 241A (BLS, EL)  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

---

#### Year 1 (Spring Semester)

(3) **ENG 102** English Composition II  
(3) HED 111 or any EH (EH)  
(3) **MATH 112B** Mathematics for Elementary Teacher (BPS)  
(3) QR 101, MATH 150 or Higher  
(3) **SCI 241B** Foundations of Science (BPS, EL)  
15 - Total Credits

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#### Year 2 (Fall Semester)

(3) MUS 111, ART 111 or any BFPA (BFPA)  
(3) PSYC 111 (BSS)  
(3) HIST 200 or HIST 201 (BSS, EL, EUSC)  
(3) RA 101 or PHIL 212  
(3) Breadth Humanities (BHUM)/Global Cultures (EGC)  
15 - Total Credits

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#### Year 2 (Spring Semester)

(3) Interdisciplinary Studies (IS)  
(3) GEOG 210 (BPS)  
(3) POLS 112 American National Government (BSS)  
(3) Any BICS (BICS) (IT 300)  
(3) **CIED 310**  
15 - Total Credits

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#### Year 3 (Fall Semester)

(1) SPE 401 Field Practicum I  
(3) SPE 405 Foundations of Special Ed.  
(3) SPE 290 Language Development  
(3) SPE 417A Introductory Reading and Language Arts  
(3) SPE 441 Assessment of Preschool Children with Special Needs  
(3) SPE 442 Methods and Procedures for Teaching Early Childhood Students with Disabilities

16 - Total Credits

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### Year 3 (Spring Semester)

- (1) SPE 402 Field Practicum II
  - (3) SPE 416 Functional Curriculum Methods
  - (3) SPE 417B Advanced Reading & Language Arts Methods in Special Education
  - (3) SPE 430A Classroom Management
  - (2) SPE 470 Transition Planning
  - (3) SPE 471 School and Family Partnerships
- 15 - Total Credits
- 

### Summer Term

- (3) SPE 415 Instructional & Assistive Technology
- 3 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) SPE 412 Assessment for Instructional Decision Making in Special Education
- (3) SPE 418 Field Practicum III
- (3) SPE 421 Mathematics Methods in Special

Education

- (3) SPE 422 Adaptations and Accommodations in Content-Area Instruction
  - (3) SPE 430B Behavior Management
- 15 - Total Credits
- 

### Year 4 (Spring Semester)

- (3) SPE 481 Senior Seminar in Special Education
  - (12) SPE 499 Special Education Student Teaching
- 15 - Total Credits
- 

**Total Hours 125**

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Speech Pathology And Audiology

## Admission Requirements

To declare as a major, students must:

- Have a minimum cumulative grade point average of 2.75 or higher
- Earn a grade of B or better in SPPA 101
- 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 B or better in SPPA 101
- Earn a grade of C or better in all other 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

### 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. Learn more about [transferring to SIUE](#).

## Degree Requirements

### Bachelor of Science

- SPPA 101, 210, 220, 231, 250, 312, 321, 322, 361, 397, 441, 442, 444, 446, 471, 499
- STAT 107, Biology, Physical Science (PHYS 111 or Chemistry), PSYC 111 (may satisfy some general education requirements)

### Bachelor of Arts

In addition to the above, eight hours of foreign language are required for the Bachelor of Arts option.

### 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.

### 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 one or two years. A fall semester start is required. To be eligible:

1. Must have completed a BA or BS degree in another field.
2. Must have been admitted to the University.

### 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 Audiometry (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)

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 one or two 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 second 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.

## Retention

In order to be retained within the speech-language pathology and audiology program, students must maintain a 2.75 GPA.

## General Education Requirements

Refer to the general education section of the [undergraduate academic catalog](#).

## Degrees Available at SIUE

- Bachelor of Arts, Speech-Language Pathology and Audiology
- Bachelor of Science, Speech-Language Pathology and Audiology

## 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.

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.

## Sample Curriculum for the Bachelor of Science in Speech-Language Pathology and Audiology

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### Year 1 (Fall Semester)

- (3) ENG 101 English Composition I
  - (3) ACS 101 Public Speaking
  - (3) **PSYC 111** Foundations of Psychology (BSS)
  - (3-4) Breadth Life Science (BLS) with a lab (EL) (**BIOL 111** recommended)
  - (3) **STAT 107** Concepts of Statistics (BICS)
  - (1) FST 101 Succeeding & Engaging at SIUE
  - 16 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) 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)
  - (3-4) **PHYS** or **CHEM** (BPS) (EL recommended)
  - 15 - Total Credits
- 

### Year 2 (Fall Semester)

- (3) RA 101 Reasoning & Argumentation
- (3) Breadth Humanities (BHUM)
- (3) EH/EGC (NUTR 210 recommended)
- (3) SPPA 210 Fundamentals of Language Analysis
- (3) Anatomy & Physiology of the Speech & Hearing

Mechanisms  
15 - Total Credits

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### Year 2 (Spring Semester)

(3) SPPA 321 Hearing Sciences  
(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)  
15 - Total Credits

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### Year 3 (Fall Semester)

(3) SPPA 231 Phonetics  
(3) SPPA 361 Basic Audiometry  
(3) Life, Physical or Social Science  
(3) Interdisciplinary Studies (IS)  
(3) Life, Physical or Social Science  
15 - Total Credits

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### Year 3 (Spring Semester)

(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)  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) 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  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) SPPA 471 Aural Rehabilitation  
(2) SPPA 499 Senior Assignment  
(3) Elective  
(3) Elective  
(3) Elective  
14 - Total Credits

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### Total Hours 120

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**Transfer Students:** To maximize your transfer experience, complete the **bold** course requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS or AAT (early childhood, special ed or math) degree from an IAI community college. If minor requirements are shown, discuss careful course selection with the academic advising contact listed. Visit the [transfer credit website](#) to find course equivalency guides.

# Theater And Dance

## Admission Requirements

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);
- 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](http://il.nesinc.com).

## 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.

## Degree Requirements

### Theater Major Core Classes - 25 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 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 take 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 the design/technical theater major:

- ART 112A, 112B, 112C, 112D, 225A, 225B
- Four 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



- THEA 210A, 210B, 215B, 230, 235, 265, 315A, 315B, 412 (take 6 credits)
- Four 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
- Electives - Select 12 credits in any THEA or DANC class with advisor consent

### **Theater Education Specialization**

Completion of the core plus:

Theater Education Requirements

- THEA 150, 160, 170, 265, 298, 392 or 312
- Four semesters of THEA 199 practicum

Requirements for students seeking teacher licensure

- CIED 302, 303, 304, 310, 311, 312, 313, 314, 323, 455, 456
- IT 300
- SPE 400

### **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.

### **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.

### **Degrees Available at SIUE**

- Bachelor of Arts, Theater & Dance
- Bachelor of Science, Theater & Dance (specialization is available in the following)
  - [Dance](#)
  - [Design/Technical](#)
  - [History/Literature/Criticism](#)
  - [Performance](#)
- [Professional Educator Licensure \(9-12\) program](#)

### **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.

### **Theater and Dance Minor**

The theater and dance minor consists of 21 hours. All theater and dance minors must take:

- THEA 112A
- THEA 150, 160, or 170
- THEA 201A, THEA 201B, DANC 240, or THEA 392
- DANC 114
- THEA 199 (taken twice)

Nine 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.

### 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, as soon as they know they would like to pursue this option, 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. 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. Overall GPAs will be calculated based on all college courses taken at all institutions. **All theater and dance courses must be at a grade point average of 2.5 or higher in order to student teach.** No course with a grade less than "C" will be applied to meet professional educator licensure requirements.

Students seeking professional educator licensure (PEL) must meet specific general education and professional education requirements, and must pass state and licensure tests prior to admission, during their program, and in order to gain the PEL. State requirements change, and the latest details about these requirements can be found on the [School of Education, Health and Human Behavior section](#) of the undergraduate academic catalog or by making an appointment with a School of Education, Health and Human Behavior advisor.

### Sample Curriculum for the Bachelor of Science in Theater and Dance, Professional Educator Licensure (9-12)

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#### Year 1 (Fall Semester)

(3) THEA 114A Forms of Dramatic Action

(4) THEA 150 Scene Design & Construction  
(2) THEA 265 Theater Makeup  
(3) ENG 101 English Composition I  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 (Spring Semester)

(3) THEA 112A Introduction to Acting (BFPA)  
(3) THEA 114B Forms of Dramatic Action  
(3) THEA 170 Introduction to Lighting & Stage Management  
(3) ENG 102 English Composition II  
(3) RA 101 Reasoning & Argumentation  
15 - Total Credits

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#### Year 2 (Fall Semester)

(3) THEA 201A History of the Theater  
(3) DANC 114 Movement Fundamentals (EH)  
(3) QR 101, MATH 150 or Higher  
(3) Breadth Social Science (BSS)  
(2) Elective  
(0) THEA 199 Theater Production  
14 - Total Credits

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#### Year 2 (Spring Semester)

(4) THEA 160 Costume Design  
(3) THEA 201B History of the Theater  
(3) Breadth Physical Science w/Lab Experience (BPS, EL)  
(3) Breadth Life Science (BLS)  
(3) Breadth Humanities (BHUM)  
(0) THEA 199 Theater Production  
16- Total Credits

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#### Year 3 (Fall Semester)

(1) CIED 302 Field Experience II  
(3) CIED 310 Planning for Diverse Learners  
(3) CIED 312 Language and Communication (BICS)  
(3) IT 300 Digital Learning and Communication (BICS)  
(4) FL 101 Elementary Foreign Language I (BICS)  
(0) THEA 199 Theater Production

14 - Total Credits

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### Year 3 (Spring Semester)

- (1) CIED 303 Field Experience III
  - (3) CIED 323 Adolescent Content Literacy
  - (3) THEA 220 Directing for the Stage
  - (3) SPE 400 The Exceptional Child
  - (4) FL 102 Elementary Foreign Language II (EGC)
  - (0) THEA 199 Theater Production
  - (3) Interdisciplinary Studies (IS)
- 17 - Total Credits
- 

### Year 4 (Fall Semester)

- (3) CIED 313 Introduction to Assessment
  - (3) CIED 314 Learning Environments
  - (3) CIED 311 Differentiated Instruction
  - (1) CIED 304 Field Experience IV
  - (3) THEA 298 Theater Education in Secondary Schools
  - (3) THEA 392 Musical Theater OR THEA 312 Multicultural Theater
  - (0) THEA 199 Theater Production
- 16 - Total Credits
- 

### Year 4 (Spring Semester)

- (10) CIED 456 9-12 Senior Seminary
  - (2) CIED 455T 9-12 Student Teaching-Theater
- 12 - Total Credits
- 

**Total Hours - 124**

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**Notes:** 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.

### Sample Curriculum for the Bachelor of Arts in Theater and Dance, Specialization in Dance

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### Year 1 (Fall Semester)

- (3) DANC 114 Movement Fundamentals (EH)
  - (3) **THEA 112A** Acting I: Intro to Acting (BFPA)
  - (3) ACS 101 Public Speaking
  - (3) ENG 101 Composition
  - (4) **FL 101** Elementary Foreign Language I (BICS)
  - (1) FST 101 Succeeding & Engaging at SIUE
- 17 - Total Credits
- 

### Year 1 (Spring Semester)

- (3) THEA 114A Forms of Dramatic Action
  - (3-4) **THEA 150, THEA 160, or THEA 170** (select one)
  - (3) Breadth Humanities (BHUM)
  - (3) ENG 102 Composition
  - (4) **FL 102** Elementary Foreign Language II (EGC)
- 16-17 - Total Credits
- 

### Year 2 (Fall Semester)

- (2) DANC 210A Beginning Modern Dance Techniques or DANC 211A Beginning Ballet
  - (3) **DANC 240** History of Dance
  - (0) THEA 199 Theater Production
  - (3) RA 101 Reasoning & Argumentation
  - (3) KIN 315 or **BIOL 240A** (recommended)
  - (3) Breadth Life Science (BLS)
  - (3) Breadth Social Science (BSS)
- 17 - Total Credits
- 

### Year 2 (Spring Semester)

- (0) THEA 199 Theater Production
  - (3) THEA 114B Forms of Dramatic Action
  - (3) THEA 220 Directing for the Stage
  - (3) **ART 225A** or **ART 225B**
  - (2) Elective
  - (3) QR 101, MATH 150 or Higher
- 14 - Total Credits
- 

### Year 3 (Fall Semester)

- (2) DANC 220 Rhythmic Structure
- (2) DANC 230 Intro to Laban Movement
- (3) DANC 310A Intermediate Modern Dance

(2) DANC 311A Intermediate Ballet Techniques  
(3) Experience United States Culture (EUSC)  
(2) Elective  
14 - Total Credits

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### Year 3 (Spring Semester)

(2) DANC 310B Intermediate Modern Dance  
(2) DANC 311B Intermediate Ballet Techniques  
(0) THEA 199 Theater Production  
(3) Interdisciplinary Studies (IS)  
(3) Breadth Physical Science (BPS)  
(3) Lab Experience (EL)  
(3) Elective  
16 - Total Credits

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### Year 4 (Fall Semester)

(2) DANC 410A, DANC 410B, DANC 411A, DANC 411B (select one)  
(2) DANC 420A Dance Composition I  
(2) DANC 433 Dance Pedagogy & Methodology  
(0) THEA 199 Theater Production Elective  
(3) THEA 201A Core: History of the Theater  
(3) THEA 201B Core: History of the Theater  
12 - Total Credits

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### Year 4 (Spring Semester)

(2) DANC 420B Dance Composition II  
(3) DANC 499 Senior Assignment  
(3) Elective  
(3) Elective  
(3) Elective  
14 - Total Credits

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### Total Hours 120

### Sample Curriculum for the Bachelor of Arts in Theater and Dance, Specialization in Design/Technical

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### Year 1 (Fall Semester)

(3) THEA 114A Forms of Dramatic Action  
(4) **THEA 150** (Introductory Tech Courses)  
(3) DANC 114 Movement Fundamentals (EH)  
(3) ACS 101 Public Speaking

(3) ENG 101 English Composition I  
(1) FST 101 Succeeding & Engaging at SIUE  
17 - Total Credits

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### Year 1 (Spring Semester)

(3) **THEA 112A** Introduction to Acting (BFPA)  
(3) THEA 114B Forms of Dramatic Action  
(3) **THEA 170** Introduction to Lighting and Stage Management  
(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or higher  
(0) THEA 199 Theater Production  
15 - Total Credits

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### Year 2 (Fall Semester)

(3) THEA 340A Theater Graphics  
(4) **THEA 160** Costume Design & Construction  
(3) THEA 201A History of the Theater  
(3) RA 101 Reasoning & Argumentation  
(4) **FL 101** Elementary Foreign Language I (BICS)  
17 - Total Credits

---

### Year 2 (Spring Semester)

(3) THEA 201B History of the Theater  
(3) THEA 220 Directing for the Stage  
(4) **FL 102** Elementary Foreign Language II (EGC)  
(3) Breadth Life Science (BLS)/Lab Experience (EL)  
(3) **ART 111** Introduction to Art (BFPA)  
(0) THEA 199 Theater Production  
16 - Total Credits

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### Year 3 (Fall Semester)

(2) THEA 265 Stage Makeup (or THEA 255)  
(3) THEA 340B Computers in Theater  
(3) **ART 225A** History of World Art (BFPA, EGC)  
(3) Breadth Social Science (BSS)  
(3) Approved Elective  
14 - Total Credits

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### Year 3 (Spring Semester)

(3) THEA 350 Scenic Design  
(3) THEA 275 Sound for the Theater

(3) **ART 225B** History of World Art (BFPA, EGC)  
(3) Interdisciplinary Studies (IS)  
(0) THEA 199 Theater Production  
12 - Total Credits

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### Year 4 (Fall Semester)

(3) THEA 450, THEA 460, THEA 470, THEA 475  
Design Projects  
(3) THEA 360 Costume Design  
(3) THEA 499B Senior Assignment: Design/Tech  
(3) Breadth Physical Science (BPS)  
(3) Approved Elective  
(0) THEA 199 Theater Production  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) THEA 370 Lighting Design  
(3) THEA 450, THEA 460, THEA 470, THEA 475  
Design Projects (or Approved Elective)  
(2) THEA 255 Scene Painting (or THEA 265)  
(3) Approved Elective  
(3) Breadth Humanities (BHUM)/Experience United  
States Cultures (EUSC)  
(0) THEA 199 Theater Production  
14 - Total Credits

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### Total Hours 120

**Notes** - 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, Specialization in History/Literature/Criticism

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### Year 1 (Fall Semester)

(3) **THEA 112A** Intro to Acting (BFPA)  
(3) THEA 114A Forms of Dramatic Action  
(3) ENG 101 English Composition I  
(3) RA 101 Reasoning & Argumentation  
(3) Breadth Social Science (BSS)  
(1) FST 101 Succeeding & Engaging at SIUE

16 - Total Credits

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### Year 1 (Spring Semester)

(3) THEA 114B Forms of Dramatic Action  
(3) DANC 114 Movement Fundamentals (EH)  
(3) ENG 102 English Composition II  
(3) ACS 101 Public Speaking  
(3) Breadth Physical Science (BPS)  
15 - Total Credits

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### Year 2 (Fall Semester)

(0) THEA 199 Theater Production  
(3-4) THEA 150, THEA 160 or THEA 170 Technical Theater  
(3) THEA 201A History of the Theater  
(4) **FL 101** Elementary Foreign Language I (BICS)  
(3) Breadth Life Science (BLS)/Lab Experience (EL)  
(3) QR 101, MATH 150 or higher  
16-17 - Total Credits

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### Year 2 (Spring Semester)

(0) THEA 199 Theater Production  
(3) THEA 201B History of the Theater  
(3) THEA 220 Directing for the Stage  
(4) **FL 102** Elementary Foreign Language II (EGC)  
(3) Elective  
(2) Elective  
15 - Total Credits

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### Year 3 (Fall Semester)

(0) THEA 199 Theater Production  
(3) Approved THEA/DANC Elective  
(3) Interdisciplinary Studies (IS)  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 3 (Spring Semester)

(0) THEA 199 Theater Production  
(3) Approved THEA/DANC Elective  
(3) ENG 307, ENG 471A or ENG 471B (BHUM)

(3) Experience United States Culture (EUSC)  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 4 (Fall Semester)

(3) Approved THEA/DANC 300/400 Elective  
(3) Approved THEA/DANC 300/400 Elective  
(3) Elective  
(3) Elective  
(3) Elective  
15 - Total Credits

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### Year 4 (Spring Semester)

(3) THEA 499C Liberal Theater Studies  
(3) Elective  
(3) Elective  
(4) Elective  
13 - Total Credits

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**Total Hours 120**

### Sample Curriculum for the Bachelor of Arts in Theater and Dance, Specialization in Performance

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#### Year 1 (Fall Semester)

(3) **THEA 112A** Intro to Acting (BFPA)  
(3) THEA 114A Forms of Dramatic Action  
(3) DANC 114 Movement Fundamentals (EH)  
(3) ENG 101 Composition I  
(3) ACS 101 Public Speaking  
(1) FST 101 Succeeding & Engaging at SIUE  
16 - Total Credits

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#### Year 1 (Spring Semester)

(3) THEA 112B Creating a Role  
(3) THEA 114B Forms of Dramatic Action  
(3-4) **THEA 150, THEA 160, or THEA 170** Technical Theater  
(3) ENG 102 English Composition II  
(3) QR 101, MATH 150 or higher  
15-16 - Total Credits

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#### Year 2 (Fall Semester)

(0) THEA 199 Theater Production  
(3) THEA 201A History of the Theater  
(3) THEA 201A Acting III  
(3) RA 101 Reasoning & Argumentation  
(4) **FL 101** Elementary Foreign Language I (BICS)  
(3) Elective  
16 - Total Credits

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#### Year 2 (Spring Semester)

(0) THEA 199 Theater Production  
(3) THEA 201B History of the Theater  
(3) THEA 220 Directing for the Stage  
(3) THEA 201B Improvisation  
(3) Breadth Physical Science (BPS)  
(4) **FL 102** Elementary Foreign Language II (EGC)  
16 - Total Credits

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#### Year 3 (Fall Semester)

(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)  
15 - Total Credits

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#### Year 3 (Spring Semester)

(0) THEA 199 Theater Production  
(2) THEA 265 Theater Makeup  
(2) DANC 310B Intermediate Modern Dance  
(3) THEA 230 Rehearsal and Performance  
(2) THEA 235 Intro to T'ai Chi Ch'uan  
(3) Interdisciplinary Studies (IS)  
(2) Elective  
14 - Total Credits

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#### Year 4 (Fall Semester)

(0) THEA 199 Theater Production  
(3) THEA 410 Acting for the Camera  
(3) THEA 420 Projects in Directing  
(3) THEA Elective, as needed  
(3) Breadth Humanities (BHUM)

(4) Approved Elective  
16 - Total Credits

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**Year 4 (Spring Semester)**

(3) THEA 430 Rehearsal and Performance

(3) THEA 499A Senior Assessment Performance  
(3) THEA 315A Dialects for the Stage  
(3) THEA 315B Advanced Movement  
12 - Total Credits

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**Total Hours 120**

## 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 lands, 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 9 credit hours of required core courses and 9 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 (9 credit hours):

- 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 (9 credit hours):

- ENG 205 - Introduction to African American Texts
- FL 101 - Elementary Foreign Language: Yoruba 1
- FL 102 - Elementary Foreign Language: Yoruba 2
- FL 111E - Introduction to Foreign Studies: The French - Speaking World
- GEOG 201 - World Regions
- GEOG 406 - Political Geography
- HIST 130 - History of Black America
- HIST 300 - Leprosy to Ebola: Health in African History
- HIST 302 - Ancient Egypt
- HIST 400 - Aid to Africa: Humanitarianism and Development in Africa
- IS 352 - Women in the Ancient World

- SOC 304 - Race and Ethnic Relations

### Minor in Asian Studies

Dunham Hall, Room 1036  
[siue.edu/artsandsciences/asianstudies/](http://siue.edu/artsandsciences/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.

#### Minor Requirements

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, [siue.edu/artsandsciences/asianstudies/](http://siue.edu/artsandsciences/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
- 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
- IS 324 - Peoples and Cultures of the East
- GEOG 331 - Geography of the Commonwealth of Independent States
- GEOG 333 - Geography of Asia
- FL 345 - 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
- POLS 356 - Political Systems of Asia
- HIST 356A - History of China Ancient Times to 1644
- HIST 356B - History of China: 1644 - Present
- HIST 358 - History of Japan
- HIST 400 - Topical Seminar: Chinese Revolutions
- HIST 400 - Topical Seminar: Women and Nationalism in East Asia
- HIST 400 - Topical Seminar: The Evolution of Contemporary Business in Japan
- HIST 400 - Topical Seminar: Medieval Japan
- IS 400 - History, Culture and the Language of China
- GEOG 426 - Beijing Human Geography Field School
- GEOG 450 - Geography of China
- HIST 454 - History of the Arab-Israeli Conflict
- HIST 455 - Women and Gender in Islamic History
- GBA 489 - Business Travel Study to China

3 additional hours from any of the courses in the following complete list of Asian Studies Minor offerings at Southern Illinois University Edwardsville:

- 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
- 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
- CHIN 301 - Advanced Chinese I

- CHIN 302 - Advanced Chinese II
- HIST 305A - Comparative Asian Civilizations, Antiquity - 1500
- HIST 305B - Comparative Asian Civilizations, 1500 - Present
- IS 324 - Peoples and Cultures of the East
- GEOG 331 - Geography of the Commonwealth of Independent States
- GEOG 333 - Geography of Asia
- FL 345 - 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
- POLS 356 - Political Systems of Asia
- HIST 356A - History of China Ancient Times to 1644
- HIST 356B - History of China: 1644 - Present
- HIST 358 - History of Japan
- HIST 400 - Topical Seminar: Chinese Revolutions
- HIST 400 - Topical Seminar: Women and Nationalism in East Asia
- HIST 400 - Topical Seminar: The Evolution of Contemporary Business in Japan
- HIST 400 - Topical Seminar: Medieval Japan
- IS 400 - History, Culture and the Language of China
- GEOG 426 - Beijing Human Geography Field School
- GEOG 450 - Geography of China
- HIST 454 - History of the Arab-Israeli Conflict
- HIST 455 - Women and Gender in Islamic History
- GBA 489 - Business Travel Study to China

Students must maintain a minimum GPA of 2.0.

## Minor in Black Studies

The Black Studies minor is multi-disciplinary, with courses in nine departments: Anthropology, Applied Communication Studies, Art, English, Historical Studies, Music, Political Science, Sociology, 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 HIST 130B (the other may count toward an elective)

### Designated Black Studies Electives

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

The director may approve other courses not listed above. For more information about this minor, contact Kathryn Bentley, MFA, Director of Black Studies. The Black Studies Office is located in Peck Hall, room 3402, phone: (618) 650-5038.

### 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, ART 447B - Ancient Art
- ENG 310 - Classical Mythology and Its Influence
- FL 106 - Building Vocabulary Through Latin and Greek Word Elements
- FL 401 - Comparative Latin and Greek Grammar
- GRK 101, GRK 102 - Introduction to Greek
- GRK 201, GRK 202 - Intermediate Greek
- GRK 499A-F - Readings in Ancient Greek
- HIST 302 - Ancient Egypt
- HIST 304 - History of Greece
- HIST 306A, HIST 306B - History of Rome
- LAT 101, LAT 102 - Introduction to Latin
- LAT 201, LAT 202 - Intermediate Latin
- LAT 499A-F - Readings in Latin
- PHIL 300 - Ancient Greek and Roman Philosophy
- PHIL 440 - Classical Political Theory (Same as POLS 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
- ENG 478 - Studies in Women, Language, and Literature (Same as Women's Studies 478)
- FL 390- Readings
- HIST 300 - Special topics
- HIST 400 - Topics in History
- HIST 410 - Directed Readings
- HUM 400 - Symposium in the Humanities
- PHIL 490 - Special Problems
- PHIL 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 19 credit hours, to be divided between 7 credit hours of required courses, and 12 credit hours of elective courses.

### **Required Courses (7 credit hours)**

- CS 234
- HUM 234L
- HUM 495

### **Elective Courses (12 credit hours)**

Digital Humanities and Social Sciences minors should choose 4 electives from the following that are the most relevant to their majors or specializations and future plans.

#### **Applied Communication Studies**

- ACS 431
- ACS 432

#### **Computer Management and Informations Systems**

- CMIS 108

#### **Computer Science**

- CS140
- CS 150
- CS 240

#### **English**

- ENG 334
- ENG 412
- ENG 482
- ENG 491

#### **Geography**

- GEOG 320
- GEOG 402
- GEOG 418
- GEOG 420

#### **Historical Studies**

- 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 456

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

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A 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 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 Practice
- IT 486 - Web Design for Instruction

## Minor in European Studies/Civilization

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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 director 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 - WWI & 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: The Holocaust
  - 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

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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 483 - 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 - Nursing Principles

of General, Organic, and Biological Chemistry and Laboratory (set counts as 1 course, taken concurrently)

Other approved Chemistry courses include:

- 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.

### **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 (prehistory 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
- ART 468a, 468b - Primitive Art: The Americans

#### **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, students must earn a 2.0 cumulative GPA 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: Precolumbian 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 a 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](mailto: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 Perspectives on Science, Technology, and Medicine

The minor in Perspectives on Science, Technology, and Medicine is an interdisciplinary minor administered by the Departments of Historical Studies and Philosophy. It aims to study the social and humanistic dimensions of the sciences, engineering, and fields of medicine. The program draws from a wide range of disciplines including Historical Studies, Philosophy, and Sociology. The minor is designed for students who seek to broaden their understanding of the sciences, areas of engineering, and fields of medicine as activities that are pursued by humans, individually or collectively, in particular times and places. The minor in Perspectives on Science, Technology, and Medicine requires 18 credit hours of approved courses, 6 of which must be selected from the "Core Courses" listed below, and 3 of which must be selected from among the "Values Courses" listed below.

### Approved Courses: 18 credit hours

#### Core Courses (6 credit hours):

- HIST 307 - History of Technology
- PHIL 242 - Philosophy of Technology
- PHIL 314 - Philosophy of Science
- SOC 383 - Medicine, Health, and Society

#### Values Courses (3 credit hours):

- ENSC 401 - Environmental Policy
- IS 321 - Ethics, Biology, and Society
- PHIL 222 - Environmental Ethics
- PHIL 321 - Ethics in the Medical Community
- PHIL 323 - Engineering, Ethics, and Professionalism

#### Other Approved Courses:

- ANTH 352 - Medical Anthropology
- ACS 370 - Health Communication
- ENG 315 - American Nature Writing
- ENG 334 - Scientific Writing
- GEOG 404 - Medical Geography
- IS 375 - Technology and Public Policy
- IS 376 - Information Technology and Society
- PHIL 316 - Philosophy of Biology
- PHIL 231 - Philosophy, Science, and Religion
- PSYC 303 - Health Psychology
- PSYC 305/WMST 305 - The Psychology of Gender

## 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 15 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 (Law and Society does not count towards a specific department), 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/POLS 497 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 1
- 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](http://siue.edu/artsandsciences/prelawminor).

### Minor in Religious Studies

Peck Hall 3212

[siue.edu/artsandsciences/philosophy/religiousstudies/](http://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 308a - 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 264 - Construction Surveying
- 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
- POLS 320 - Introduction to Public Administration
- POLS 342 - Issues in American Public Policy
- POLS 344 - Urban Politics
- SOCW 303 - Human Behavior in the Social Environment II
- SOCW 390 - Diversity and Issues of Social and Economic Justice
- SOC 304 - Race and Ethnic Relations
- SOC 335 - Urban Sociology

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

## 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

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 428, 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/](http://siue.edu/artsandsciences/womensstudies/).

## Admission to the University

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 in which you plan to enter the University. Deadline exceptions may be determined by the Director of Undergraduate Admissions.

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](mailto:intladm@siue.edu), of your change in plans before the deadline date for the new term of entry.

### File Completion Deadlines through 2020:

**2019 Fall Semester** — New freshmen, Priority Deadline: December 1, 2018;  
Final Deadline: May 1, 2019;  
All other students: July 19, 2019

**2020 Spring Semester** — All undergraduate students: December 13, 2019  
International students: November 1, 2019

**2020 Summer Term** — All undergraduate students: May 1, 2020  
International students: April 1, 2020

**2020 Fall Semester** — New freshmen, Priority Deadline: December 1, 2019;  
Final Deadline: May 1, 2020;  
All other students: July 24, 2020

For a complete listing of deadlines, please visit [siue.edu/apply](http://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](http://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](http://siue.edu/apply). You may obtain a paper admission application by printing one from [siue.edu/apply](http://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](mailto: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](http://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[1] 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](http://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](http://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](http://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](http://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](mailto:intladm@siue.edu). Additional information is available online at [siue.edu/international](http://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](http://wes.org), or Educational Credential Evaluators, Inc (ECE) – [ece.org](http://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 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 either 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 (iTB). 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[1] 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.

## **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.

## Readmission of Former Students (Undergraduate)

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Former students who have not attended SIUE for one calendar year (i.e., registered and paid fees) must apply for re-admission. Readmission criteria for former students are:

- Students who were in good standing during their last attendance will be admitted with the same class/college/major. Students desiring to change majors on the application for readmission, or who previously were admitted to programs that are no longer available, shall be readmitted with undeclared status. These students may request a new major through the advisement process and must meet the entrance requirements for that program.
- Students whose academic standing was warning or probation will be readmitted with the same standing. These students will be readmitted with undeclared status.
- Students whose academic standing was suspension during their last attendance will be admitted with undeclared status on academic probation, provided the student has not had more than one suspension. Such students must receive academic counseling and advising before enrolling in classes and must adhere to the agreed upon plan of action developed with their advisor.
- Students who have had two or more academic suspensions and have completed a minimum of 30 credit hours of coursework at another regionally accredited college or university with a minimum cumulative grade point average of 2.00 since their last attendance at SIUE will be admitted in undeclared status on academic probation.

## 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.

## Registration

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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](http://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](http://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.

## 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](http://siue.edu/financialaid) and [siue.edu/studentemployment](http://siue.edu/studentemployment);
- online Student Job Finder at [siue.edu/studentemployment](http://siue.edu/studentemployment);
- online record of required documents and awards offered/paid at [siue.edu/cougarnet](http://siue.edu/cougarnet); and
- short-term loans or emergency assistance 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 nor 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.

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, 1996;
- 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 2019-2020 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, 2018, 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 (FAFSA) before the beginning of the start of the semester the student wishes to attend. The processing of aid can take a few weeks. Be sure to file in accordance with processing timelines.
- 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, past due balance, 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](http://isac.org).

### **Illinois National Guard Program**

Detailed information can be found at the Office of Veteran Services website at [siue.edu/veterans](http://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](http://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](http://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 college or residing with a spouse in continued military service who is currently stationed outside of Illinois. Applications and additional information are available at [isac.org](http://isac.org).

### **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](http://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](http://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.

### **Federal Direct Subsidized Stafford Loans**

Subsidized federal loans are low-interest loans made to undergraduate students attending at 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. The student must have a FAFSA on file for the parent to be eligible to apply for the PLUS loan.

### **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](http://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 must meet specific academic progress requirements to remain eligible for VA benefits. Veterans applying for VA benefits may 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 in nontraditional formats should contact the Veterans Certification Section, Records, Room 1207, Rendleman Hall. After registering each term, students receiving VA benefits should report their registration to the Veterans Certification Section of the Records Office by completing a Veteran Benefits Information form. Any change in enrollment after registration should be reported to Veterans Certification as soon as possible. A student who withdraws or leaves SIUE should refer to the registration section of this catalog

titled "Withdrawing from the University."

### **Employment**

Part-time student employment is available at SIUE under both the regular student employment program and the Federal Work-Study program. SIUE also helps students find off-campus employment through the Job Locator Program.

## Student Employment

SIUE offers a broad range of part-time student work opportunities in almost every phase of

university operation or service. Many positions are in the clerical, maintenance, or food service

areas, and many challenging positions help develop the administrative, research, or technical skills of students. Students usually work 15-20 hours per week as class schedules permit. Generally, students begin working at the state minimum wage and receive increases as total accumulated hours increase. Available jobs are listed online in the Student Job Finder at [siue.edu/studentemployment](http://siue.edu/studentemployment). Students apply for jobs via the Internet.

## Federal Work-Study Program

The Federal Work-Study Program is designed to help students with financial need to secure employment and help defray costs. Students who qualify are awarded federal funds (dependent upon available funding) that pay part of their wages; the unit in which they work pays the remainder. Federal Work-Study eligibility is awarded as part of a package of scholarships, grants, and/or loans. Students must complete a FAFSA and indicate on their FAFSA they are interested in Federal Work-Study.

## Job Locator and Development Program

The Job Locator and Development Program helps students seeking part-time jobs with employers in the communities surrounding SIUE. Designed to place SIUE students in part-time jobs related to their career and academic interests, the Job Locator Program provides financial assistance and job experience to students. Enrolled students may participate in the Job Locator Program. Employment opportunities are found online in the Student Job Finder at [siue.edu/studentemployment](http://siue.edu/studentemployment).

## University Scholarships

University funds provide scholarships that are awarded to students with good academic records and, sometimes, financial need. Go to the scholarship website at [siue.academicworks.com](http://siue.academicworks.com) to see a list of all university scholarship offerings and

how to apply for each, or contact the Office of Student Financial Aid for details. Scholarships, like grants, need not be repaid.

## Meridian Scholars Program

- New freshman undergraduates only
- Admission to the University by December 1 required
- Deadline for application: December 1
- Value: in-state tuition, fees, on-campus room and board for eight semesters
- Selection based on exceptional academic record, leadership qualities, and interview; preference for AP and honors course credit in high school
- Minimum of 27 ACT (SAT ERW + M only greater than or equal to 1260)
- Admission to Honors Scholars Program, Undergraduate Research Academy projects and other academic opportunities

## Cougar Pride Scholarships

- Admission to the University by December 1 (March 1 for transfer students)
- Through a competitive process, up to \$4,000 awarded annually as funding is available
- Freshmen must have a minimum 23 ACT (SAT ERW + M only greater than or equal to 1130)
- 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 cumulative GPA

## Johnetta Haley Scholarships

- Admission to the University by December 1 (March 1 for transfer students)
- Through a competitive process, \$2,000 awarded annually as funding is available
- Freshmen must have a minimum 23 ACT (SAT ERW + M only greater than or equal to 1130)
- 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

### **AIM High Grant**

- Newly admitted freshmen entering 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 after October 1
- Freshmen must have a minimum 20 ACT (SAT ERW + M only greater than or equal to 1030)
- Eligibility requirements must be in accordance with requirements set by the Illinois Student Assistance Commission listed [online](#)
- Awarded \$2,500 per academic year as funding is available

### **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](mailto: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](http://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](http://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 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](http://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](http://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](http://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](http://siue.academicworks.com). The Office of Student Financial Aid's website, [siue.edu/financialaid](http://siue.edu/financialaid), also contains several links for free, reputable scholarship search services, as does [isac.org](http://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](http://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/financial-aid/types-of-aid/awards-and-grants/](http://siue.edu/financial-aid/types-of-aid/awards-and-grants/) and click on the disclosure links.

## General Education

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### Objectives for General Education and the Baccalaureate Degree

The purpose of baccalaureate education at Southern Illinois University Edwardsville is to provide students with a solid foundation for intellectual development and an ability and desire to make contributions to society. As a public institution, SIUE strives to develop students who are well-informed, effective citizens; who provide leadership in civic and community affairs; who appreciate the arts; who have increased capacity for self-reflection, self-assessment and healthy living; and who will pursue lifelong learning.

The undergraduate curriculum encourages students to see the events of the world in broad perspective and to bring a reasoned approach to the challenges they may face. To achieve these purposes, the University seeks to impart the following abilities and knowledge to its students through their general education and study in their academic majors and minors:

**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 discussions.

**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:

**FIRST SEMESTER TRANSITION:** All new freshmen are required to take a First Semester Transition course that helps students transition to college, with a specific focus on preparation for college level academic work and becoming an engaged member of the SIUE community.

**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) course that carries the Interdisciplinary Studies designation to foster awareness of the interrelationships among branches of human knowledge;

#### **EXPERIENCES:**

- **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.

#### **First Semester Transition 1 hour**

#### **Foundation 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

\*MATH 145/150 or higher with a minimum grade of C may be substituted

## Breadth 18 hours

Take 3 credit hours from each area - not more than 6 credit hours from the same department.

- 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

## Interdisciplinary Studies

- Course that carries IS designation

-Requires completion of Foundations courses

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

## Experiences

- 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 degrees require 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 toward 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.
- 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 [sue.edu/registrar/genedguides.shtml](http://sue.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.siu.edu/testing/proficiency/proficiency\\_list.shtml](http://www.siu.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 Interdisciplinary Studies courses.

Students are allowed to meet a total of five general education requirements through course equivalency credit via proficiency examinations. This equivalency credit is allowed in the Foundations, Breadth and Cultures areas, or any combination of these.

### **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 a course with Interdisciplinary

Studies designation 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](mailto: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.

### **Attribute — Requirement**

- BFPA — Breadth Fine and Performing Arts requirement
- BHUM — Breadth Humanities requirement
- BICS — Breadth Information and Communication in Society requirement
- BLS — Breadth Life Sciences requirement
- BPS — Breadth Physical Sciences requirement
- BSS — Breadth Social Sciences requirement
- IS — Interdisciplinary Studies requirement
- EL — Experience Laboratory requirement
- EUSC — Experience United States Cultures requirement
- EGC — Experience Global Cultures requirement
- EH — Experience Health requirement

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 unless admitted to an approved Accelerated program.

## MidPoint Assessment, Senior Assignment

**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**

### **Assessment**

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.

## Advanced Studies

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### 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

Honors students are required to complete a general education program that combines the requirements outlined in University policy 1D1 - University-Wide Criteria for the Bachelor of Arts (B.A.), Bachelor of Science (B.S.), and Professional Baccalaureate Degrees - with the following 25 credit-hour Honors curriculum. These requirements fall into three categories: the Honors Core, the Pro-Seminar Requirement, and additional requirements.

### 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 through the Arts and Humanities," which explores the connections between seemingly diverse fields or topics; 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 Social and Behavioral 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 Inter-disciplinarity," 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.

### **Additional Requirements (6 credit-hours)**

Honors students are also required to satisfy the requirements of:

1. a lab course (EL) in the physical sciences (PS) or life sciences (LS);
2. a mathematics, statistics, or quantitative reasoning course.

These requirements may be satisfied through major or minor degree requirements.

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

#### **Year 1 (Fall Semester)**

- (3) HONS 120—Big Questions and the Spirit of Inquiry
- (3) HONS 121 - Honors Rhetoric

#### **Year 1 (Spring Semester)**

- (1) HONS 100—Pro-seminar: Learning, Working, Living

#### **Year 2 (Fall Semester)**

- (3) HONS 250—Connections in the Arts and Humanities

#### **Year 2 (Spring Semester)**

- (1) HONS 200—Pro-seminar: Globalization

#### **Year 3 (Fall Semester)**

- (3) HONS 320A—Problems in the Social and Behavioral Sciences

#### **Year 3 (Spring Semester)**

- (1) HONS 300—Pro-seminar: Special Topics

#### **Year 4 (Fall Semester)**

- (3) HONS 320B - Problems in the Physical Sciences, Life Sciences, and Technology

#### **Year 4 (Spring Semester)**

- (1) HONS 499—Pro-seminar: Civic Engagement and Inter-disciplinarity

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.

### **Honors Curriculum 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 curricular requirements 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 curriculum outlined above (15 credit-hours), including the Additional Requirements. They are required to take Honors 250, within two semesters of admittance to the program. In addition, they are required to earn credit in two English composition courses.

### **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 year the student does not attain a 3.2 cumulative GPA, she/he is to be dropped from the Honors Program.

### Honors Pre-Law Scholars Program

Honors students with an ACT composite score in the 85<sup>th</sup> percentile nationally (or the equivalent SAT score in critical reading and math) and who are interested in attending law school upon earning their bachelor's degree from Southern Illinois University Edwardsville have the option of joining the Honors Pre-Law Scholars Program. Application is done during admission to the Honors Program or subsequently through the Honors Advisor. It is open to freshmen, sophomores, and juniors. Upon acceptance into the Pre-Law Scholars Program, students are given the opportunity to participate in a variety of courses, program, and lectures related to the law. **Honors Pre-Law Scholars are guaranteed admission to SIU Law School** if they complete the curricular and co-curricular requirements of the SIUE Honors Program in good standing (3.2 cumulative GPA), complete all graduation requirements for a B.A. or B.S. degree from SIUE, and complete all SIU School of Law application requirements. In compliance with the American Bar Association, SIUE Pre-Law Scholars will be required to have a valid LSAT on file through the Law School Admissions Council. Further, Southern Illinois University School of Law considers, as part of the admissions process, prior acts of academic and other misconduct. Similarly, the SIU School of Law must certify to the Board of Bar Admissions of each state in which students apply for admission that they are fit to practice law. For these

reasons, all SIUE Pre-Law Scholars are required to make a full and complete disclosure to the character and fitness questions outlined in SIU School of Law application. Questions pertaining to this requirement may be directed to the SIU School of Law Office of Admissions.

In addition to completing the honors curriculum, Honors Pre-Law Scholars are required to take the Honors Pre-Law Concentration (15 credit-hours), combined in the following way:

**Legal Foundation** (one required, another may be taken as an elective)

- CJ 348/PHIL 348/POLS 392 Law and Society
- POLS 390 The Judicial System
- CJ 410 Judicial Process

**Critical Thinking, Quantitative Reasoning, Logic**

- PHIL 213 Deductive Logic

**Communication** (one required, another may be taken as an elective)

- ACS 204 Argumentation and Debate
- ACS 300 Communication in Interviewing
- ACS 304 Conflict Management and Communication
- ACS 305 Listening
- ACS 430 Persuasion and Social Influence
- ENG 332 Argument
- ENG 369 Grammatical Analysis
- ENG 405 Pragmatics
- ENG 409 Syntactic Analysis
- ENG 410 Rhetoric, Writing, and Citizenship
- ENG 416 Language and Society
- ENG 490 Advanced Composition
- ENG 491 Technical and Business Writing
- PSYC 206 Social Psychology
- PSYC 365 Group Dynamics and Individual Behavior
- THEA 112a Core: Acting 1

**Legal Studies** (one required, another may be taken as an elective)

- ANTH 359 Anthropology and Human Rights
- ANTH 366 Human Variation
- ANTH 369 Introduction to Forensic Anthropology

- MC 401 Media Law & Policy
- PHIL 340 Social and Political Philosophy
- PHIL 343/POLS 391 Philosophy of Law
- PHIL 441/POLS 485 Modern Political Theory
- PHIL 498/POLS 498 Legal Theory
- POLS 495 Constitutional Law: Powers of Government
- POLS 496 Constitutional Law: Civil Rights and Civil Liberties
- POLS 497 Environmental Law
- POLS 498 Legal Theory

**Elective Course** (One an additional 3 credit-hour course from any of the above not already taken).

Students who are in the Pre-Law Scholars Program, while guaranteed admittance to SIU Law, are not committed to attend the SIU Law School. In addition, courses in the Pre-Law Scholars Program can be counted toward the Pre-Law minor.

## 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](http://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](http://siue.edu/urca).

## 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.

### Class, Semester Hours Earned

- Freshman, 0-29 hours
- Sophomore, 30-59 hours
- Junior, 60-89 hours
- Senior, 90 or more

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 Credit**

Southern Illinois University Edwardsville accepts the State Seal of Biliteracy as equivalent to 101-202 in language courses offered at the University, namely sixteen (16) credit hours. When the seal is granted in a language not offered at Southern Illinois University Edwardsville, sixteen (16) credit hours in a lower division foreign language course (FL 101-202) will be awarded. In all cases, students must request course credit for their seal within three 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](http://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:

Exam Code	Exam Title	Exam Score	SIUE Equivalent	SIUE Course Attributes	Awarded Hours
AP 13	Art History	3, 4, 5	ART 111 - Introduction to Art	BFPA	3
AP 14	Studio Art: Drawing	3, 4, 5 without portfolio review*	ART 1XX - Art Elective	N/A	3
AP 14	Studio Art: Drawing	3, 4, 5 and favorable portfolio review*	ART 112A - Basic Studio: Drawing I	N/A	3
AP 15	Studio Art: 2-D Design	3, 4, 5 without portfolio review*	ART 1XX - Art Elective	N/A	3
AP 15	Studio Art: 2-D Design	3, 4, 5 and favorable portfolio review*	ART 112B - Basic Studio: Visual Organization I	N/A	3
AP 16	Studio Art: 3-D Design	3, 4, 5 and favorable portfolio review*	ART 112D - Basic Studio: Visual Organization II	N/A	3
AP 75	Music Theory	3, 4, 5	MUS 111 - Intro to Music History/Literature	BFPA	3
AP 36	English Language & Comp	3, 4, 5	ENG 101 - English Composition	FW1	3
AP 37	English Literature & Comp	3, 4, 5	ENG 111 - Introduction to Literature	BHUM, EGC	3
AP 34	Microeconomics	3, 4, 5	ECON 112 - Principles of Microeconomics	BSS	3
AP 35	Macroeconomics	3, 4, 5	ECON 111 - Principles of Macroeconomics	BSS	3
AP 07	United States History	3, 4, 5	HIST 200 - US History & Const to 1877 ORHIST 201 - US History & Const 1877-Present	BSS, EL, EUSC	3

Exam Code	Exam Title	Exam Score	SIUE Equivalent	SIUE Course Attributes	Awarded Hours
AP 43	European History	3, 4, 5	HIST 111A - History of Western Civ I: Prehist to 500AD ORHIST 111B - History of Western Civ II: 500 to 1715	BSS, EGC, EL	3
AP 93	World History	3, 4, 5	HIST 112A - World History to 1500 OR HIST 112B - World History 1500 to Present	BHUM, EGC	3
AP 53	Human Geography	4, 5	GEOG 205 - Human Geography	BSS,EGC, EL	3
AP 53	Human Geography	3	GEOG XXXX - Geography Elective	BSS, EGC,EL	3
AP 57	United States Government and Politics	4, 5	POLS 112 - Intro Amer Nat'l Government & Politics	BSS	3
AP 57	United States Government and Politics	3	POLS XXXX - Political Science Elective	BSS	3
AP 58	Comparative Government and Politics	3, 4, 5	POLS XXXX - Political Science Elective	BSS	3
AP 85	Psychology	3, 4, 5	PSYC 111 - Foundations of Psychology	BSS	3
AP 31	Computer Science A	4, 5	CS 140 - Introduction to Computing I	N/A	4
AP 31	Computer Science A	3	CS XXXX - Computer Science	N/A	4
AP 66	Calculus AB	3, 4, 5	MATH 150 - Calculus I	BPS	5
AP 68	Calculus BC	3, 4, 5	MATH 150 - Calculus I AND MATH 152 - Calculus II	150 - BPS 152 - BPS	10
AP 68, 69	Calculus BC (with Calculus AB subscore)	1, 2 plus Calculus AB score 3	MATH 150 - Calculus I	BPS	5
AP 90	Statistics	3, 4, 5	STAT 244 - Statistics	BICS, PS	4
AP 20	Biology	3, 4, 5	BIOL 111 - Contemporary Biology	BLS	3
AP 25	Chemistry	5	CHEM 121A/125A - General Chemistry AND CHEM 121B/125B - General Chemistry	121A - BPS 125A - BPS, EL 121B - BPS 125B - BPS, EL	10
AP 25	Chemistry	4**	CHEM 121A - General Chemistry AND CHEM 121B - General Chemistry	121A - BPS 121B - BPS	8
AP 25	Chemistry	3**	CHEM 121A - General Chemistry	BPS	4
AP 40	Environmental Science	4, 5	ENSC 220 - Principles of Environmental Sci	BPS	3
AP 40	Environmental Science	3	ENSC 111 - Survey of Environmental Sciences and Sustainability	BPS	3
AP 83	Physics 1 - Algebra based	4, 5	PHYS 131 - College Physics I	BPS	4
AP 83	Physics 1 - Algebra based	3	PHYS XXXX- Physics Elective	BPS	4
AP 84	Physics 2 - Algebra based	4, 5	PHYS 132 - College Physics II	BPS	4
AP 84	Physics 2 - Algebra based	3	PHYS XXXX- Physics Elective	BPS	4
AP 80	Physics C - Mechanics	4, 5	PHYS 151 - University Physics	BPS	4
AP 80	Physics C - Mechanics	3	PHYS XXXX- Physics Elective	BPS	4
AP 82	Physics C - Electricity and Magnetism	4, 5	PHYS 152 - University Physics	BPS	4
AP 82	Physics C - Electricity and Magnetism	3	PHYS XXXX- Physics Elective	BPS	4
AP 28	Chinese Language and Culture	5	CHIN 101 - Elementary Chinese I, CHIN 102 - Elementary Chinese II, CHIN 201 - Intermediate Chinese I AND CHIN 202 - Intermediate Chinese II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL 202 - BICS, FL, HUM	16
AP 28	Chinese Language and Culture	4	CHIN 101 - Elementary Chinese I AND CHIN 102 - Elementary Chinese II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 28	Chinese Language and Culture	3	CHIN 101 - Elementary Chinese I	BICS, FL, HUM	4
AP 48	French Language and Culture	5	FR 101 - Elementary French I, FR 102 - Elementary French II, FR 201 - Intermediate French I AND FR 202 - Intermediate French II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 48	French Language and Culture	4	FR 101 - Elementary French I AND FR 102 - Elementary French II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 48	French Language and Culture	3	FR 101 - Elementary French I	BICS, FL, HUM	4

Exam Code	Exam Title	Exam Score	SIUE Equivalent	SIUE Course Attributes	Awarded Hours
AP 55	German Language and Culture	5	GER 101 - Elementary German I, GER 102 - Elementary German II, GER 201 - Intermediate German I AND GER 202 - Intermediate German II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 55	German Language and Culture	4	GER 101 - Elementary German I AND GER 102 - Elementary German II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 55	German Language and Culture	3	GER 101 - Elementary German I	BICS, FL, HUM	4
AP 62	Italian Language and Culture	5	ITAL 101 - Elementary Italian I, ITAL 102 - Elementary Italian II, ITAL 201 - Intermediate Italian I AND ITAL 202 - Intermediate Italian II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 62	Italian Language and Culture	4	ITAL 101 - Elementary Italian I AND ITAL 102 - Elementary Italian II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 62	Italian Language and Culture	3	ITAL 101 - Elementary Italian I	BICS, FL, HUM	4
AP 64	Japanese Language and Culture	5	FL 101 - Elementary Foreign Language I, FL 102 - Elementary Foreign Language II, FL 201 - Intermediate Foreign Language I AND FL 202 - Intermediate Foreign Language II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 64	Japanese Language and Culture	4	FL 101 - Elementary Foreign Language I AND FL 102 - Elementary Foreign Language II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 64	Japanese Language and Culture	3	FL 101 - Elementary Foreign Language I	BICS, FL, HUM	4
AP 60	Latin	5	LAT 101 - Introduction to Latin I, LAT 102 - Introduction to Latin II, LAT 201 - Intermediate Latin I AND LAT 202 - Intermediate Latin II	101 - FL, HUM 102 - EGC, FL, HUM 201 - FL, HUM 202 - FL, HUM	16
AP 60	Latin	4	LAT 101 - Introduction to Latin I AND LAT 102 - Introduction to Latin II	101 - FL, HUM 102 - EGC, FL, HUM	8
AP 60	Latin	3	LAT 101 - Introduction to Latin I	FL, HUM	4
AP 87	Spanish Language and Culture	5	SPAN 101 - Elementary Spanish I, SPAN 102 - Elementary Spanish II, SPAN 201 - Intermediate Spanish I AND SPAN 202 - Intermediate Spanish II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 87	Spanish Language and Culture	4	SPAN 101 - Elementary Spanish I AND SPAN 102 - Elementary Spanish II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 87	Spanish Language and Culture	3	SPAN 101 - Elementary Spanish I	BICS, FL, HUM	4
AP 89	Spanish Literature and Culture	5	SPAN 101 - Elementary Spanish I, SPAN 102 - Elementary Spanish II, SPAN 201 - Intermediate Spanish I AND SPAN 202 - Intermediate Spanish II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM 201 - BICS, FL, HUM 202 - BICS, FL, HUM	16
AP 89	Spanish Literature and Culture	4	SPAN 101 - Elementary Spanish I AND SPAN 102 - Elementary Spanish II	101 - BICS, FL, HUM 102 - BICS, EGC, FL, HUM	8
AP 89	Spanish Literature and Culture	3	SPAN 101 - Elementary Spanish I	BICS, FL, HUM	4
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

### **\*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 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](http://siue.edu/testing). Persons who wish to apply for credit through SIUE should have official results sent to the Office of the Registrar.

Exam Title	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes	Credit Hours
Financial Accounting	50	ACCT 200 - Fundamentals of Financial Accounting	N/A	3
Information Systems and Computer Applications	50	CMIS 108 - Computer Concepts and Applications	BICS	3
Composition and Literature				
American Literature	50	ENG 1XX - American Literature	BHUM	3
Analyzing and Interpreting Literature	50	ENG 1XX - Analyzing and Interpreting Literature	BHUM	3
College Composition	50	ENG 101 - English Composition I	FW1	3
English Literature	50	ENG 1XX - English Literature	BHUM	3
Humanities	50	TRF 1XX - Humanities	BHUM, EGC	3
American Government	55	POLS 1XX - American Government	BSS	3
Introductory Psychology	63	PSYC 111 - Foundations of Psychology	BSS	3
Introduction to Educational Psychology	50	PSYC 1XX - Human Growth and Development	BSS	3
Introductory Sociology	57	SOC 111 - Introduction to Sociology	BSS, EUSC	3
Principles of Macroeconomics	50	ECON 111 - Principles of Macroeconomics	BSS	3
Principles of Microeconomics	50	ECON 112 - Principles of Microeconomics	BSS	3
Social Science/History	50	TRF 1XX - Social Science/History	BSS	3
Biology	50	BIOL 111 - Contemporary Biology OR BIOL 205 - Human Diseases	BLS BLS, EH	3
Calculus	55	MATH 150 - Calculus I	BPS	5

Exam Title	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes	Credit Hours
Chemistry	55	CHEM 120A - General, Organic, and Biological Chemistry AND CHEM 124A - General, Organic, and Biological Chemistry Lab	120A-BPS, 124A-BPS, EL	4
Chemistry	63	CHEM 121A - General Chemistry AND CHEM 125A - General Chemistry Lab	121A-BPS, 125A-BPS, EL	5
College Algebra	50	MATH 120 - College Algebra	BPS	3
College Mathematics	50	QR 101 - Quantitative Reasoning	FQR	3
Natural Sciences	50	TRF 1XX - Natural Science	LS	3
Precalculus	50	MATH 125 - Pre-Calculus Mathematics with Trigonometry	BPS	3

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 on [siue.edu/transfer/](http://siue.edu/transfer/).

## 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.

Exam Title	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes
Business Ethics and Society (BU)	400	TRF 3XX - Business Ethics and Society	HUM
Business Mathematics (B)	400	TRF 1XX - Business Mathematics	BICS
Human Resource Management (B)	400	MGMT 1XX - Human Resource Management	N/A
Introduction to Business (B)	400	TRF 1XX - Introduction to Business	N/A
Management & Information Systems (B)	400	CMIS 108 - Computer Concepts and Applications	BICS
Money and Banking (BU)	400	FIN 4XX - Money and Banking	N/A
Organizational Behavior (B)	400	MGMT 1XX - Organizational Behavior	N/A
Personal Finance (B)	400	FIN 3XX - Principles of Finance	N/A
Principles of Supervision (B)	400	MGMT 1XX - Principles of Supervision	N/A
Ethics in America (BU)**	400	PHIL 3XX - Ethics in America	HUM, EUSC
Introduction to World Religions (BU) **	400	PHIL 4XX - Introduction to World Religions	BHUM, EGC
Principles of Public Speaking (B)*	400	ACS 101 - Department approval required*	FSPC
<b>Mathematics</b>			
Fundamentals of College Algebra (B)	400	MATH 120 - College Algebra	BPS
Principles of Statistics (B)	400	STAT 107 - Concepts of Statistics	BICS, PS
Astronomy (B)	400	PHYS 118 - Astronomy	BPS
Environment & Humanity: The Race to Save the Planet (B)	400	ENSC 1XX - Environment & Humanity: The Race to Save the Planet	BPS
Health and Human Development (BU)	400	PBHE 111 - Personal Health	EG
Principles of Physical Science I (B)	400	SCI 1XX - Principles of Physical Science I	BPS
<b>Social Sciences</b>			
A History of the Vietnam War (B)	400	HIST 1XX - A History of the Vietnam War	BSS
Art of the Western World (B)	400	ART 1XX - Art of the Western World	BFPA, EGC
Criminal Justice (B)	400	CJ 1XX - Criminal Justice	BSS
Foundations of Education (B)	400	CIED 1XX - Foundations of Counseling	N/A

Exam Title	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes
General Anthropology (B)	400	ANTH 1XX - General Anthropology	BSS, EUSC, EGC
History of the Soviet Union (BU)	400	HIST 3XX - History of the Soviet Union	BSS
Human /Cultural Geography (B)	400	GEOG 111 - Intro to Geography	BSS, EGC, EL
Introduction to Law Enforcement (BU)	400	CJ 3XX - Introduction to Law Enforcement	BSS
Lifespan Development Psychology (B)	400	PSYC 1XX - Lifespan Development Psychology	BSS
Substance Abuse: Drug & Alcohol Abuse (BU)	400	PBHE 3XX - Substance Abuse: Drug & Alcohol Abuse	EH
The Civil War and Reconstructions (BU)	400	HIST 3XX - The Civil War and Reconstruction	BSS
Computing and Information Technology (B)	400	CS 108 - Applied Computer Concepts	BICS
Fundamentals of Cybersecurity (BU)	400	TRF 3XX - Fundamentals of Cybersecurity	N/A
Technical Writing (B)	400	ENG1XX - Technical Writing	BICS

## 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 to SIUE. See [siue.edu/transfer](http://siue.edu/transfer) for details.

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

Exam Title	Level	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes	SIUE Credit Hours
Biology	Higher (HL)	4-7	BIOL 150 - Introduction to Biological Sciences I BIOL 151 - Introduction to Biological Sciences II	BLS, EL	8
Business and Management	Higher (HL)	4-7	GBA XXXX - Business and Management HL	N/A	3
Chemistry	Higher (HL)	5-7	CHEM 121A - General Chemistry CHEM 125A - General Chemistry Lab	BPS, EL	10
Chemistry	Higher (HL)	4	CHEM 121A - General Chemistry CHEM 125A - General Chemistry Lab	BPS, EL	5
Chinese A Language & Literature	Higher (HL)	4-7	CHIN 201 - Intermediate Chinese I CHIN 202 - Intermediate Chinese II	BICS, FL, HUM	8
Chinese A: Literature	Higher (HL)	4-7	CHIN XXXX - Chinese A: Literature HL	BHUM	3
Chinese B	Higher (HL)	4-7	CHIN 201 - Intermediate Chinese I CHIN 202 - Intermediate Chinese II	BICS, FL, HUM	8
Computer Science	Higher (HL)	4-7	TRF XXXX - Computer Science HL	N/A	3
Design Technology	Higher (HL)	4-7	TRF XXXX - Design Technology HL	N/A	3
Economics	Higher (HL)	4-7	ECON 111 - Principles of Macroeconomics ECON 112 - Principles of Microeconomics	BSS	6
English A: Language & Literature	Higher (HL)	4-7	ENG 101 - English Composition I	FW1	3
English A: Literature	Higher (HL)	4-7	ENG 111 - Introduction to Literature	BHUM, EGC, LIT	3
Film	Higher (HL)	4-7	TRF XXXX - Film HL	N/A	3
French A Language & Literature	Higher (HL)	4-7	FR 201 - Intermediate French I FR 202 - Intermediate French II	BICS, FL, HUM	8
French A: Literature	Higher (HL)	4-7	FR XXXX - French A: Literature HL	BHUM	3
French B	Higher (HL)	4-7	FR 201 - Intermediate French I FR 202 - Intermediate French II	BICS, FL, HUM	8
Geography	Higher (HL)	4-7	GEOG 111 - Introduction to Geography	BSS, EGC, EL	3
German A Language & Literature	Higher (HL)	4-7	GER 201 - Intermediate German I GER 202 - Intermediate German II	BICS, FL, HUM	8
German A: Literature	Higher (HL)	4-7	GER XXXX - German A: Literature HL	BHUM	3

Exam Title	Level	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes	SIUE Credit Hours
German B	Higher (HL)	4-7	GER 201 - Intermediate German I GER 202 - Intermediate German II	BICS, FL, HUM	8
Global Politics	Higher (HL)	4-7	POLS 370 - Introduction International Relations	BSS, EGC	3
History	Higher (HL)	4-7	HIST 112A - World History to 1500 HIST 112B - World History 1500 to Present	BHUM, EGC	6
Information Technology (ITGS)	Higher (HL)	4-7	CMIS 108 - Computer Concepts & Applications	BICS	3
Mathematics	Higher (HL)	4-7	TRF XXXX - Mathematics HL	N/A	3
Mathematics Further	Higher (HL)	4-7	TRF XXXX - Mathematics Further HL	N/A	3
Music	Higher (HL)	4-7	MUS 124 - Foundations of Music	BFPA	3
Philosophy	Higher (HL)	4-7	PHIL 111 - Introduction to Philosophy	BHUM	3
Physics	Higher (HL)	4-7	PHYS 151 - University Physics I PHYS 151L - University Physics I Lab PHYS 152 - University Physics II PHYS 152L - University Physics II Lab	BPS, EL	10
Psychology	Higher (HL)	4-7	PSYC 111 - Foundations of Psychology	BSS	3
Social and Cultural Anthropology	Higher (HL)	4-7	ANTH 300 - Ethnographic Fieldwork	BSS, EUSC	3
Spanish A Language & Literature	Higher (HL)	4-7	SPAN 201 - Intermediate Spanish I SPAN 202 - Intermediate Spanish II	BICS, FL, HUM	8
Spanish A: Literature	Higher (HL)	4-7	SPAN XXXX - Spanish A: Literature HL	BHUM	3
Spanish B: Literature	Higher (HL)	4-7	SPAN 201 - Intermediate Spanish I SPAN 202 - Intermediate Spanish II	BICS, FL, HUM	8
Theater	Higher (HL)	4-7	TRF XXXX - Theater HL	N/A	3
Visual Arts	Higher (HL)	4-7	ART XXXX - Visual Arts HL*	BFPA	6
Biology	Standard (SL)	4-7	BIOL 111 - Contemporary Biology	BLS	3
Business and Management	Standard (SL)	4-7	GBA XXXX - Business and Management SL	N/A	3
Chemistry	Standard (SL)	4-7	CHEM 113 - Introduction to Chemistry	PS	3
Chinese A Language & Literature	Standard (SL)	4-7	CHIN 101 - Elementary Chinese I CHIN 102 - Elementary Chinese II	BICS, FL, EGC, HUM	8
Chinese A: Literature	Standard (SL)	4-7	CHIN XXXX - Chinese A: Literature SL	BHUM	3
Chinese B	Standard (SL)	4-7	CHIN 101 - Elementary Chinese I CHIN 102 - Elementary Chinese II	BICS, FL, EGC, HUM	8
Computer Science	Standard (SL)	4-7	TRF XXXX - Computer Science SL	N/A	3
Design Technology	Standard (SL)	4-7	TRF XXXX - Design Technology SL	N/A	3
Economics	Standard (SL)	4-7	ECON XXXX - Economics SL	N/A	3
English A: Language & Literature	Standard (SL)	4-7	ENG XXXX - English A: Language & Literature SL	N/A	3
English A: Literature	Standard (SL)	4-7	ENG XXXX - English A: Literature SL	N/A	3
Environmental Systems and Society	Standard (SL)	6-7	ENSC 220 - Principles of Environmental Science	BPS	3
Environmental Systems and Society	Standard (SL)	4-5	ENSC 111 - Environment and Sustainability	BPS	3
Film	Standard (SL)	4-7	TRF XXXX - Film SL	N/A	3
French A Language & Literature	Standard (SL)	4-7	FR 101 - Elementary French I FR 102 - Elementary French II	BICS, FL, EGC, HUM	8
French A: Literature	Standard (SL)	4-7	FR XXXX - French A: Literature SL	BHUM	3
French B	Standard (SL)	4-7	FR 101 - Elementary French I FR 102 - Elementary French II	BICS, FL, EGC, HUM	8
Geography	Standard (SL)	4-7	GEOG 111 - Introduction to Geography	BSS, EGC, EL	3
German A Language & Literature	Standard (SL)	4-7	GER 101 - Elementary German I GER 102 - Elementary German II	BICS, FL, EGC, HUM	8
German A: Literature	Standard (SL)	4-7	GER XXXX - German A: Literature SL	BHUM	3
German B	Standard (SL)	4-7	GER 101 - Elementary German I GER 102 - Elementary German II	BICS, FL, EGC, HUM	8

Exam Title	Level	Required Minimum Score	SIUE Equivalent Course	SIUE Attributes	SIUE Credit Hours
Global Politics	Standard (SL)	4-7	POLS 150 - Comparative Politics	BSS, EGC	3
History	Standard (SL)	4-7	HIST 112A - World History to 1500 - OR- HIST 112B - World History 1500 to Present	BHUM, EGC	3
Information Technology (ITGS)	Standard (SL)	4-7	CMIS XXXX - Information Technology SL	N/A	3
Math Studies	Standard (SL)	4-7	TRF XXXX - Math Studies SL	N/A	3
Mathematics	Standard (SL)	4-7	TRF XXXX - Mathematics SL	N/A	3
Music	Standard (SL)	4-7	MUS 111 - Introduction to Music History/Literature	BFPA	3
Philosophy	Standard (SL)	4-7	PHIL XXXX - Philosophy SL	N/A	3
Physics	Standard (SL)	4-7	PHYS 151 - University Physics I PHYS 151L - University Physics I Lab	BPS, EL	5
Psychology	Standard (SL)	4-7	PSYC 111 - Foundations of Psychology	BSS	3
Social and Cultural Anthropology	Standard (SL)	4-7	ANTH 111B - Human Culture & Communication	BSS, EGC, EUSC	3
Spanish A Language & Literature	Standard (SL)	4-7	SPAN 101 - Elementary Spanish I SPAN 102 - Elementary Spanish I	BICS, FL, EGC, HUM	8
Spanish A: Literature	Standard (SL)	4-7	SPAN XXXX - Spanish A: Literature SL	BHUM	4
Spanish B: Literature	Standard (SL)	4-7	SPAN 101 - Elementary Spanish I SPAN 102 - Elementary Spanish I	BICS, FL, EGC, HUM	8
Sports, Exercise & Health Science	Standard (SL)	4-7	KIN 270 - Personal Wellness	EH	3
Theater	Standard (SL)	4-7	TRF XXXX - Theater SL	N/A	3
Visual Arts	Standard (SL)	4-7	ART 111 - Introduction to Art	BFPA	3
World Religions	Standard (SL)	4-7	PHIL 234 - World Religions	BHUM, EGC	3

**\*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

**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 is done in the Office of the Registrar-Transfer Center, Rendleman Hall, Room 1218. More information may be obtained at [siue.edu/transfer/plan.shtml](http://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.
- **P** 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)
- WP — Withdrew Passing (0 Points)
- WF — Withdrew Failing (0 Points)
- WR — Withdrawal by the Registrar (0 points)

- Quality hours are multiplied by grade points to obtain quality points for each course. 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

Courses	Quality Hours	x	Grades	=	Quality Points
AD 075A	0	x	P(0)	=	0.0
AD 090A	0	x	NC(0)	=	0.0
BIOL 111	3	x	A(4)	=	12
ACS 101	3	x	F(0)	=	0.0
THEA 141	3	x	B(3)	=	9.0
Total	9			=	21.0

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 Warning, 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 placed 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 Deans' 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 Deans' 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 by the published

deadlines posted on the [Office of the Registrar website](#). 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 March 1. 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.

### **Graduation Appeals Committee**

The SIUE Graduation Appeals Committee hears students' petitions to graduate even though they have not satisfied all University graduation requirements. The committee hears only those cases involving University requirements for a baccalaureate degree. Appeals relative to a major or academic unit requirement are made through the appropriate department.

Requests for waiver of general education

requirements are made to the General Education Committee of the Faculty Senate. Ordinarily, the Graduation Appeals Committee will give consideration to an appeal only if there is tangible

evidence that the matters at issue are of an unusual nature and that they have resulted from conditions beyond the control of the student. Appeals are initiated through the Office of the Registrar.

## University Policies

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### 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

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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.

SIUE complies in letter and spirit with appropriate federal and state legislation prohibiting discrimination including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments Act of 1972, The Americans with Disabilities Act of 1990, and the Illinois Human Rights Act.

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](mailto:EOA-TitleIX@siue.edu).

### Fair Practice

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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

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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**

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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 email 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 birthStudents 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](http://siue.edu/registrar/forms/pdf/DirectoryInformationRelease.pdf). SIUE publishes a web directory located at [siue.edu/search/index.shtml](http://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](http://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](http://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](https://www.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**

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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](https://www.siue.edu/policies/3c1.shtml).

## **SIUE Policy Prohibiting Sexual Harassment**

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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 also 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](mailto:cmartaa@siue.edu) The SIUE Sexual Harassment Policy is available online at [siue.edu/policies/2c5.shtml](http://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](http://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:  
<http://www.illinois.gov/dhr/FilingCharge/Pages/Education.aspx>.

## Illinois Articulation Initiative

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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](mailto:transfercredit@siue.edu). Additional information is available on the IAI Website, [itransfer.org](http://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 course (3 to 5 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)

## Officers of the University

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### SIU Board of Trustees (Hometown / Term Expiration)

- J. Phil Gilbert, Chair (Carbondale / 2021)
- Ed Hightower, Vice Chair (Edwardsville / 2025)
- Roger Tedrick, Secretary (Mt. Vernon / 2023)
- Ed Curtis (Springfield / 2025)
- Subhash Sharma (Carbondale / 2025)
- Amy Sholar, Chair (Alton / 2021)
- John Simmons (East Alton, 2023)
- Brione Lockett, Student Trustee (Carbondale / 2019)
- Molly Smith, Student Trustee (Edwardsville / 2019)

### Officers of Administration Southern Illinois University, Office of the President

- Kevin Dorsey, President (Interim)
- W. Bradley Colwell, Vice President for Academic Affairs
- Lucas D. Crater, General Counsel
- Kimberly Labonte, Executive Director of Audits
- Duane Stucky, Senior Vice President for Financial and Administrative Affairs and Board Treasurer

### Southern Illinois University Edwardsville

- Randall G. Pembroke, Chancellor
- P. Denise Cobb, Provost and Vice Chancellor for Academic Affairs
- Rachel C. Stack, Vice Chancellor for University Advancement
- Richard L. Walker, Vice Chancellor for Administration
- Jeffrey N. Waple, Vice Chancellor for Student Affairs

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## 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, 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

**Deweese, 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, Southern Illinois University  
Edwardsville

**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,  
MPhE, 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

**McClearey, 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 I.**, 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 Mass  
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

**Ringering, 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

**Rossow, Mark P.**, Professor Civil Engineering,  
PhD, 1973, University of Michigan - Ann Arbor

**Rumfelt, 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

**Schwier, 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
- Sweezy, 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

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## Faculty

### Accounting

**Brant, Steven**, Instructor  
MS, 1979, Illinois State University

**Carver, M.**, Emeritus Professor  
PHD, 1980, Univ Of Missouri-Columbia

**Costigan, Michael**, Emeritus Professor  
PHD, 1985, Saint Louis University

**Gross, Andrew**, Associate Professor  
PHD, 2010, Univ Of Arkansas

**Hemker, Jeffrey**, Instructor  
JD, 2004, Saint Louis University

**Hirsch, Maurice**, Emeritus Professor  
PHD, 1977, Washington University

**Hoelscher, Jamie**, Assistant Professor  
PHD, 2013, Univ Of Nebraska At Lincoln

**King, Thomas**, Emeritus Professor  
PHD, 1973, Univ Of California-Los Angeles

**Lovata, Linda**, Professor

PHD, 1983, Indiana Univ-Bloomington

**Ortegren, Alan**, Emeritus Professor  
PHD, 1982, Univ Of Arkansas

**Ortegren, Marc**, Assistant Professor  
PHD, 2010, Texas Tech University

**Reed, Bradford**, Chair / Professor  
PHD, 1995, Univ Of Arizona

**Sierra, Gregory**, Associate Professor  
PHD, 2004, Washington University

**Song, Xiaoxiao**, Assistant Professor  
PHD, 2017, Univ Of Texas - Arlington

**Tornaritis, Cathy**, Instructor  
MSA, 2014, Southern Illinois University Edwardsville

### Anthropology

**Balasundaram, Sasikumar**, Assistant Professor  
PHD, 2012, Univ South Carolina-Columbia

**Denny, Sidney**, Emeritus Professor  
PHD, 1972, Southern Illinois University Carbondale

**Frisbie, Charlotte**, Emerita Professor  
PHD, 1970, Univ Of New Mexico

**Frisbie, Theodore**, Emeritus Professor  
PHD, 1971, Southern Illinois University Carbondale

**Huddleston, Chad**, Instructor  
MA, 1999, Univ Of Montana

**Lorenzini, Michele**, Instructor  
MA, 1998, Univ Of Ill-Urbana Champaign

**Lutz, Nancy**, Associate Professor  
PHD, 1986, Univ Of California-Berkeley

**Ragsdale, Corey**, Assistant Professor  
PHD, 2015, Univ Of New Mexico

**Rehg, Jennifer**, Associate Dean/Professor  
PHD, 2003, Univ Of Ill-Urbana Champaign

**Schusky, Ernest**, Emeritus Professor  
PHD, 1960, Univ of Chicago

**Willmott, Cory**, Chair/Professor  
PHD, 2001, McMaster University

**Zimmermann, Julie**, Professor  
PHD, 2000, New York University

### **Applied Communication Studies**

**Alexander, Alicia**, Professor  
PHD, 2004, Univ Of Texas - Austin

**Batson, Stephanie**, Instructor  
MS, 2005, North Carolina State U-Raleigh

**Brown, Jocelyn DeGroot**, Associate Professor  
PHD, 2009, Ohio University

**Bumpers, Komie**, Instructor  
MA, 2000, Southern Illinois University Edwardsville

**Ceah, Wai**, Professor  
PHD, 2004, Univ Of Kentucky

**Fussell, Renee**, Instructor  
MA, 1991, Southern Illinois University Edwardsville

**Goehe, Patricia**, Emerita Associate Professor  
MS, 1958, Southern Illinois University Carbondale

**Graebe, Annette**, Emerita Associate Professor  
MAST, 1964, Southern Illinois University Carbondale

**Hayes, Diane**, Instructor  
MA, 2006, Southern Illinois University Edwardsville

**Liu, Min**, Associate Professor  
PHD, 2006, North Dakota State University

**McClearey, Kevin**, Emeritus Professor  
PHD, 1979, Univ Of Kansas

**Munshaw, Joseph**, Emeritus Professor  
PHD, 1972, Univ Of Missouri-Columbia

**Nastasia, Sorin**, Associate Professor  
PHD, 2010, Univ Of North Dakota

**Perkins, Laura**, Emerita Professor  
PHD, 1989, Univ Of Missouri-Kansas City

**Schaefer, Zachary**, Associate Professor  
PHD, 2010, Texas A&M Univ-Main Campus

**Sellnow-Richmond, Deborah**, Assistant Professor  
PHD, 2016, Wayne State University

**Sonderegger, Lacey**, Instructor  
MA, 2009, Southern Illinois University Edwardsville

**Thornton, Tara**, Instructor  
MA, 2000, Southern Illinois University Edwardsville

**Valley, David**, Emeritus Professor  
PHD, 1972, Univ Of Ill-Urbana Champaign

**VanSlette, Sarah**, Associate Professor  
PHD, 2006, Purdue University

**Wrobbel, Eric**, Chair/Professor  
PHD, 1994, Univ Of Texas - Austin

### **Applied Health**

**Archangel, Rosemarie**, Emerita Professor  
PHD, 1968, Univ of Iowa

**Baker, John**, Emeritus Professor  
PHD, 1979, Univ Of Iowa

**Brady, Kathryn**, Associate Professor  
PHD, 2009, Univ Of Missouri-Columbia

**Carey, Ann**, Emerita Professor  
PHD, 1969, Southern Illinois University Carbondale

**Carpenter, Sara**, Emerita Lecturer  
BA, 1950, Texas A & M-Kingsville

**Cathorall, Michelle**, Assistant Professor  
DPH, 2013, Univ Of No Carolina-Greensboro

**Caumiant, Jennifer**, Instructor  
MSED, 2010, Southern Illinois University  
Edwardsville

**Chleboun, Steffany**, Associate Professor  
PHD, 2006, Univ Of Nebraska At Lincoln

**Cluphf, David**, Professor  
PHD, 1999, West Virginia University

**Covington, Kay**, Emerita Associate Professor  
PHD, 1986, Texas Woman'S University

**Engelman, Dixie**, Emerita Dean  
MA, 1973, Southern Illinois University Edwardsville

**Fernandez Del Valle, Maria**, Assistant Professor  
PHD, 2012, European University of Madrid

**Gopalan, Chaya**, Associate Professor  
PHD, 1988, University Of Glasgow

**Grist, Arthur**, Emeritus Associate Professor  
MPH, 1960, Univ Of Michigan-Ann Arbor

**Guilford, Brianne**, Assistant Professor  
PHD, 2013, Univ Of Kansas

**Harrison, Jean**, Emerita Associate Professor  
MS, 1974, Illinois State University

**Henderson, Jaime**, Instructor  
MS, 2015, Southern Illinois University Edwardsville

**Inman, Cynthia**, Instructor  
MS, 1996, Texas A&M Univ-Main Campus

**Kirk, Erik**, Professor  
PHD, 2004, Univ Of Kansas

**Klein, Nicole**, Professor  
PHD, 1995, Univ Of Texas - Austin

**Klopfenstein, Marie**, Associate Professor  
PHD, 2012, Univ Of Louisiana At Lafayette

**Lieblich, Malcolm**, Emeritus Professor  
PHD, 1963, New York University

**Luckey, Georgia**, Assistant Professor  
MS, 2015, Southern Illinois University Edwardsville

**Luedke, George**, Emeritus Associate Professor  
PHD, 1982, Indiana Univ-Bloomington

**Ma, Alice**, Assistant Professor  
PHD, 2017, Univ Of No Carolina-Greensboro

**Masiongale, Tedd**, Instructor  
MA, 1992, Univ Of South Dakota

**Meder, Allison**, Assistant Professor  
PHD, 2018, Univ Of Kansas

**Moehn, Larry**, Emeritus Ast Professor  
MS, 1962, Indiana Univ-Bloomington

**Mora, Katherine**, Assistant Professor  
PHD, 2006, Univ Of Arizona

**Nelson, James**, Emeritus Associate Professor  
DDS, 1968, Indiana Univ-Bloomington

**Panico, James**, Associate Professor  
PHD, 2005, Univ Of Nebraska At Lincoln

**Prince, Alice**, Emerita Associate Professor  
PHD, 1984, Southern Illinois University Carbondale

**Ross-Stewart, Lindsay**, Assistant Professor  
PHD, 2009, Univ Of North Dakota

**Ruzich, Shauna**, Instructor  
MS, 2000, Southern Illinois University Carbondale

**Sappington, Vera**, Emerita Associate Professor  
PHD, 1976, Univ of Iowa

**Showers, Norman**, Emeritus Professor  
EDD, 1966, Univ Of Ill-Urbana Champaign

**Smith, Bryan**, Associate Professor  
PHD, 2002, Univ Of Missouri-Columbia

**Taylor, Joyce**, Emerita Professor  
PHD, 1969, Univ Of Missouri-Columbia

**Vanderbunt, Erin**, Instructor  
MS, 1999, A T Still Univ



**Webb, Benjamin**, Assistant Professor  
PHD, 2014, Penn State Univ-Main Campus

**Wooten, Joshua**, Associate Professor  
PHD, 2008, Texas Woman'S University

**Xin, Huaibo**, Chair/Associate Professor  
PHD, 2011, Univ Of No Carolina-Greensboro

**Zuercher, Jennifer**, Assistant Professor  
PHD, 2009, Univ No Carolina-Chapel Hill

## Art and Design

**Anderson, Daniel**, Emeritus Professor  
MFA, 1970, Cranbrook Academy of Art

**Barrow, Jane**, Professor  
MFA, 1990, Indiana Univ-Bloomington

**Brown, Steven**, Associate Professor  
MFA, 1994, Univ Of Delaware

**Clinger, Aimee**, Assistant Professor  
MFA, 2009, Univ Of Kansas

**Cooper, Ivy**, Professor  
PHD, 1997, Univ Of Pittsburgh

**Davis, Don**, Emeritus Professor  
MA, 1955, Ohio University

**Decoteau, Pamela**, Emerita Professor  
PHD, 1975, Univ Of Wisconsin-Madison

**Denhouter, John**, Associate Professor  
MFA, 1984, Univ Of Michigan-Ann Arbor

**Dimick, Brigham**, Professor  
MFA, 1991, Indiana Univ-Bloomington

**Dresang, Paul**, Professor, Distng Research  
MFA, 1975, Univ Of Minnesota-Duluth

**Duhigg, Thad**, Professor  
MFA, 1989, Syracuse University

**George, Jayashree**, Assistant Professor  
DA, 2000, New York University

**Gipe, Thomas**, Emeritus Professor  
MFA, 1972, Southern Illinois University  
Edwardsville

**Goebl-Parker, E.**, Associate Professor  
MSW, 1991, Washington University

**Holder, Danny**, Instructor  
MFA, 1987, Southern Illinois University  
Edwardsville

**Horvath, Ryan**, Instructor  
MFA, 2012, Southern Illinois University  
Edwardsville

**Myers, Paulette**, Emerita Professor  
MFA, 1973, Washington University

**Nwacha, Barbara**, Chair/Associate Professor  
MA, 1996, Univ Of Iowa

**Page, Joseph**, Assistant Professor  
MFA, 2008, Alfred University

**Park, Sangsook**, Associate Professor  
EDD, 2004, Univ Of Ill-Urbana Champaign

**Poole-Jones, Katherine**, Associate Professor  
PHD, 2007, Rutgers State University

**Ringering, Dennis**, Emeritus Professor  
MFA, 1970, Univ Colorado Boulder

**Robb, Megan**, Associate Professor  
MA, 2002, George Washington University

**Strand, Laura**, Professor  
MFA, 1993, Univ Of Kansas

**Weber, Joseph**, Emeritus Professor  
PHD, 1983, Saint Louis University

## Biological Sciences

**Barry, Kelly**, Associate Professor  
PHD, 1992, Univ Of Hawaii-Manoa

**Brugam, Richard**, Emeritus Distinguished Res Prf  
PHD, 1975, Yale University

**Brunkow, Paul**, Associate Professor  
PHD, 1996, Arizona State University

**Buettner, Thomas**, Instructor  
MS, 1983, Southern Illinois University Edwardsville

**DiSalvo, Susanne**, Assistant Professor

PHD, 2012, Brown University

**Durbin, Catherine**, Instructor  
MS, 2003, Southern Illinois University Edwardsville

**Eder, Douglas**, Emeritus Associate Professor  
PHD, 1973, Florida State University

**Esselman, Elizabeth**, Professor  
PHD, 1996, Ohio State University

**Essner Jr., Richard**, Professor  
PHD, 2003, Ohio University

**Fowler, Thomas**, Associate Professor  
PHD, 1993, Ohio State University

**Greenfield, Ben**, Assistant Professor  
PHD, 2016, Univ Of California-Berkeley

**Hubert, Amy**, Assistant Professor  
PHD, 2009, Univ Of Wisconsin-Madison

**Jennings, David**, Associate Professor  
PHD, 1997, Univ Colorado Boulder

**Kassebaum, Bethany**, Instructor  
MA, 2010, Southern Illinois University Edwardsville

**Keating, Richard**, Emeritus Professor  
PHD, 1965, Univ of Cincinnati

**Kitz, Dennis**, Emeritus Professor  
PHD, 1980, Univ Of Iowa

**Kohn, Luci**, Associate Professor  
PHD, 1989, Univ Of Wisconsin-Madison

**Krajniak, Kevin**, Professor  
PHD, 1990, Univ Of Florida

**Lee, Danielle**, Assistant Professor  
PHD, 2010, Univ Of Missouri-St Louis

**Liebl, Faith**, Associate Professor  
PHD, 2005, Univ Of Illinois-Chicago

**Lin, Zhiqing**, Professor  
PHD, 1996, McGill University

**Luesse, Darron**, Associate Professor  
PHD, 2006, Indiana Univ-Bloomington

**McCommas, Steven**, Emeritus Professor  
PHD, 1982, Univ Of Houston

**McCracken, Vance**, Chair/Associate Professor  
PHD, 2001, Univ Of Ill-Urbana Champaign

**Minchin, Peter**, Professor  
PHD, 1984, University Of Tasmania

**Parker, Nancy**, Emerita Associate Professor  
PHD, 1965, Univ Of Texas - Austin

**Peterson, Brittany**, Assistant Professor  
PHD, 2016, Purdue University

**Petrucelli, Emily**, Assistant Professor  
PHD, 2015, Univ Of Iowa

**Ratzlaff, Kermit**, Emeritus Professor  
PHD, 1962, Univ Of California-Los Angeles

**Retzlaff, William**, Associate Dean/Distinguished  
Research Professor  
PHD, 1987, Clemson University

**Schulz, Kurt**, Professor  
PHD, 1991, Univ Of Wisconsin-Madison

**Simmons, Christine**, Instructor  
MS, 2004, Saint Louis University

**Stephens, Abigail**, Instructor  
MS, 2010, Southern Illinois University Edwardsville

**Theodorakis, Christopher**, Professor  
PHD, 1994, Univ Of Tennessee

**Wanda, Paul**, Emeritus Professor  
PHD, 1978, Penn State Univ-Main Campus

**Williams, Jason**, Associate Professor  
PHD, 2005, Miami University

**Yoon, Kyong-Sup**, Assistant Professor  
PHD, 2006, Univ Of Massachusetts-Amherst

## Chemistry

**Adegboyega, Nathaniel**, Assistant Professor  
PHD, 2014, Florida Instit Tech

**Bryan, Virginia**, Emerita Professor  
PHD, 1968, Univ Of Minnesota-Twin Cities

**De Meo, Cristina**, Professor  
PHD, 2001, Univ Of Georgia

**Dixon, Robert**, Associate Professor  
PHD, 1993, Univ Of Pittsburgh

**Dong, Jie**, Assistant Professor  
PHD, 2014, Ohio State University

**Eilers, James**, Emeritus Professor  
PHD, 1971, Case Western Resrve Univ

**Holovics, Thomas**, Instructor  
PHD, 2007, Univ Of Kansas

**Hunsley, James**, Emeritus Ast Professor  
PHD, 1970, Michigan State University

**Jones, Myron**, Assistant Professor  
PHD, 2010, Univ Of Oklahoma

**Lu, Yun**, Professor  
PHD, 1996, Nankai University

**Luesse, Sarah**, Associate Professor  
PHD, 2004, Indiana Univ-Bloomington

**McClure, James**, Emeritus Associate Professor  
PHD, 1978, Univ Of Missouri-Columbia

**Miller, Lynne**, Instructor  
PHD, 2005, Univ Of Ill-Urbana Champaign

**Navarre, Edward**, Associate Professor  
PHD, 2002, Univ Of Vermont

**Norcio, Lawrence**, Instructor  
PHD, 1999, West Virginia University

**O'Brien, Leah**, Chair/Distinguished Research  
Professor  
PHD, 1987, Univ Of Arizona

**Patrick, Timothy**, Emeritus Distinguished Res Prf  
PHD, 1967, West Virginia University

**Rieth, Monica**, Assistant Professor  
PHD, 2014, Lehigh University

**Shabestary, Nahid**, Professor  
PHD, 1984, Michigan State University

**Shaw, Michael**, Professor, Distng Research

PHD, 1993, University Of British Columbia

**Sumita, Mina**, Assistant Professor  
PHD, 2006, Wayne State University

**Tucker, Kevin**, Assistant Professor  
PHD, 2011, Univ Of Ill-Urbana Champaign

**Vandegrift, Vaughn**, Emeritus Chancellor  
PHD, 1974, Ohio University

**Voss, Eric**, Professor  
PHD, 1992, Northwestern University

**Wei, Chin-Chuan**, Professor  
PHD, 1998, City University Of New York

**Wiediger, Susan**, Professor  
PHD, 1999, Rice University

### Civil Engineering

**Ardis, Colby**, Emeritus Professor  
PHD, 1972, Univ Of Wisconsin-Madison

**Bengtson, Harlan**, Emeritus Professor  
PHD, 1971, Univ Colorado Boulder

**Benjankar, Rohan**, Assistant Professor  
PHD, 2009, Univ Of Idaho

**Cote, Daniel**, Emeritus Professor  
MS, 1958, North Carolina State U-Raleigh

**Cross, Wm**, Professor  
PHD, 1992, Johns Hopkins University, The

**Duffey, Harry**, Emeritus Professor  
SCD, 1965, Washington University

**Fries, Ryan**, Chair/Professor  
PHD, 2007, Clemson University

**Hanna, Steven**, Emeritus Professor  
PHD, 1968, Purdue University

**Huang, Jianwei**, Associate Professor  
PHD, 2010, Syracuse University

**Korn, Alfred**, Emeritus Professor  
PHD, 1967, Washington University

**Lin, Chiang**, Emeritus Professor

PHD, 1984, Univ Of Kentucky

**Morgan, Susan**, Associate Dean/Professor  
PHD, 1995, Clemson University

**Osouli, Abdolreza**, Associate Professor  
PHD, 2010, Univ Of Ill-Urbana Champaign

**Panahshahi, Nader**, Professor  
PHD, 1987, Cornell University

**Pierce, Rex**, Emeritus Instructor  
MBA, 1987, Southern Illinois University  
Edwardsville

**Qi, Yan**, Assistant Professor  
PHD, 2010, Louisiana St Univ/A&M-Baton Rg

**Rossow, Mark**, Emeritus Professor  
PHD, 1973, Univ Of Michigan-Ann Arbor

**Zhou, Jianpeng**, Professor  
PHD, 2003, University Of British Columbia

## **Computer Management and Information Systems**

**Barber, Connie**, Assistant Professor  
PHD, 2014, Univ Of No Carolina-Greensboro

**Bock, Douglas**, Emeritus Professor  
PHD, 1987, Indiana Univ-Bloomington

**Bordoloi, Bijoy**, Professor  
PHD, 1988, Indiana Univ-Bloomington

**Giddens, Laurie**, Assistant Professor  
PHD, 2017, Baylor University

**Hansel, Walter**, Emeritus Associate Professor  
PHD, 1983, Southern Illinois University Carbondale

**Hileman, Joshua**, Instructor  
MS, 1998, Southern Illinois University Edwardsville

**Jacks, Tim**, Associate Professor  
PHD, 2012, Univ Of No Carolina-Greensboro

**Klepper, Robert**, Emeritus Professor  
PHD, 1973, Univ Of Chicago

**LaFreniere, Jill**, Instructor  
MS, 2014, Southern Illinois University Edwardsville

**Macharia, Mary**, Assistant Professor

''

**Moore, Jo**, Emerita Professor  
PHD, 1997, Indiana Univ-Bloomington

**Mussulman, James**, Instructor  
MBA, 1996, Southern Illinois University  
Edwardsville

**Patsloff, Patricia**, Emerita Professor  
EDD, 1967, Univ Of Michigan-Ann Arbor

**Powell, Anne**, Chair/Professor  
PHD, 2000, Indiana Univ-Bloomington

**Schrage, John**, Emeritus Associate Professor  
PHD, 1978, Michigan State University

**Schultheis, Robert**, Emeritus Professor  
PHD, 1966, Indiana Univ-Bloomington

**Sumner, Mary**, Emerita Professor  
EDD, 1977, Rutgers St U Nj-New Brunswick

**Vithayathil, Joseph**, Assistant Professor  
PHD, 2013, Univ Of California-Irvine

**Werner, David**, Emeritus Chancellor  
PHD, 1969, Northwestern University

**Williams, Clay**, Associate Professor  
PHD, 2007, Univ Of Georgia

**Yager, Susan**, Emerita Professor  
PHD, 1998, Univ Of North Texas

## **Computer Science**

**Bouvier, Dennis**, Associate Professor  
PHD, 1994, Univ Of Louisiana At Lafayette

**Crk, Igor**, Chair/Associate Professor  
PHD, 2010, Univ Of Arizona

**Ercal, Gunes**, Associate Professor  
PHD, 2008, Univ Of California-Los Angeles

**Fujinoki, Hiroshi**, Professor  
PHD, 2001, Univ Of South Florida

**Gamage, Thoshitha**, Assistant Professor  
PHD, 2011, Missouri Univ of Science Tech

**Hattemer, Jimmie**, Emeritus Professor  
PHD, 1964, Washington University

**Isaacson, Joel**, Emeritus Professor  
PHD, 1963, Michigan State University

**Klein, Steven**, Instructor  
MS, 1999, Southern Illinois University Edwardsville

**Livingston, Marilyn**, Emerita Professor  
PHD, 1966, University Of Alberta

**Matta, John**, Assistant Professor  
MS, 2014, Southern Illinois University Edwardsville

**McKenney, Mark**, Associate Professor  
PHD, 2008, Univ Of Florida

**Stephen, G.**, Emeritus Professor  
PHD, 1969, Univ Of New Mexico

**Tetzner, Lenora**, Instructor  
MS, 1994, Southern Illinois University Edwardsville

**Tornaritis, Socratis**, Instructor  
MS, 1986, Univ Of Ill-Urbana Champaign

**Waxman, Bernard**, Emeritus Professor  
SCD, 1989, Washington University

**Weinberg, Jerry**, Associate Provost/Professor  
PHD, 1996, Vanderbilt University

**White, William**, Professor  
PHD, 1989, Ohio State University

**Yu, Xudong**, Associate Professor  
PHD, 2000, Vanderbilt University

## Construction

**Ahmed, Ahmed Fathy Abdelaty**, Assistant Professor  
DENGR, 2017, Iowa State University

**Bodapati, Surya**, Emeritus Professor  
PHD, 1969, Univ Of Manchester

**Choi, Byungjoo**, Assistant Professor  
PHD, 2018, Univ Of Michigan-Ann Arbor

**Gordon, Christopher**, Associate Dean/Professor  
PHD, 2006, Carnegie Mellon University

**Grinter, Mark**, Emeritus Associate Professor  
MS, 2008, Southern Illinois University Edwardsville

**Pocreva, Robert**, Emeritus Associate Professor  
MS, 1966, Auburn University

**Romero Galvao De Mor, Fernando**, Instructor  
MSE, 2010, Federal Univ Of Minas Gerais

**Snell, Luke**, Emeritus Professor  
MS, 1970, Univ Of Oklahoma

**Werner, Anne**, Chair/Associate Professor  
PHD, 2004, Univ Of Ill-Urbana Champaign

**Yuan, Chenxi**, Assistant Professor  
, ,

## Dental Medicine

**Savoca, Dennis**, Emeritus Associate Professor  
DDS, 1969, Ohio State University

## Dental Medicine, School of

**Back, Brian**, Assistant Professor, Clinical  
DMD, 2008, Southern Ill Univ-Edw/Dental M

**Banker, Jeffrey**, Assistant Professor, Clinical  
CPROST, 1992, Univ Of Missouri-Kansas City

**Biethman, Rick**, Associate Professor  
DMD, 1980, Southern Ill Univ-Edw/Dental M

**Bitter, Robert**, Assistant Professor, Clinical  
DMD, 1978, Washington University

**Blackwell, Robert**, Chair/Clinical Associate Professor  
DDS, 1983, Univ Of Illinois-Chicago

**Carter, Kathryn**, Instructor  
MS, 2016, Southern Illinois University Edwardsville

**Darnell, Leslie**, Instructor, Clinical  
DMD, 2014, Tufts University

**Declue, James**, Emeritus Associate Professor  
PHD, 1974, Univ Of Missouri-Columbia

**Dickey, Keith**, Emeritus Associate Professor  
DDS, 1974, Indiana Univ-Purdue Indnapols

**Dixon, Debra**, Associate Professor  
DMD, 1993, Southern Illinois University  
Edwardsville

**Douglas, Robert**, Chair/Professor  
DMD, 1989, University Of Manitoba

**Duncan, Randall**, Assistant Professor, Clinical  
CPOST, 1988, Univ Of Texas At San Antonio

**Emery, Morgan**, Assistant Professor  
DDS, 2012, Univ Of Missouri-Kansas City

**Emery, Robert**, Assistant Professor, Clinical  
DDS, 1985, Univ Of Missouri-Kansas City

**Evans, Keith**, Assistant Professor, Clinical  
DMD, 2001, Southern Ill Univ-Edw/Dental M

**Farhadian, Shirin**, Instructor, Clinical  
DMD, 2015, Semmelweis University

**Fischer, Gary**, Director/Clinical Professor  
DMD, 1982, Southern Illinois University  
Edwardsville

**Frazier, Jacob**, Assistant Professor, Clinical  
DMD, 2011, Southern Ill Univ-Edw/Dental M

**Froemling, Robert**, Emeritus Ast Professor  
DDS, 2000, Univ Of Ill-Urbana Champaign

**Garcia, Nathalia**, Associate Professor  
DMD, 1994, Pontifical Univ Javeriana

**Ghassemi, Amirreza**, Assistant Professor  
DDS, 2010, Kerman Univ Medical Sciences

**Goebel, William**, Emeritus Professor  
MS, 1974, Indiana Univ-Purdue Indnapols

**Gruender, Bret**, Assistant Professor, Clinical  
DMD, 1986, Southern Ill Univ-Edw/Dental M

**Guilbeault, David**, Assistant Professor, Clinical  
DMD, 2000, Southern Ill Univ-Edw/Dental M

**Hatton, John**, Emeritus Professor  
DDS, 1982, Southern Illinois University Edwardsville

**Henley, Gary**, Associate Professor, Clinical  
DDS, 1985, Univ Of Missouri-Kansas City

**Hildebolt, Charles**, Professor, Clinical  
PHD, 1987, Washington University

**Hinz, Jessica**, Director/Associate Professor  
PHD, 1997, Univ Of Missouri-Columbia

**Hoffman, Steven**, Chair/Clinical Associate  
Professor  
DMD, 2000, Southern Illinois University  
Edwardsville

**Hollander, Craig**, Assistant Professor, Clinical  
DDS, 1988, Univ Of Missouri-Kansas City

**Hopp, Christa**, Associate Professor  
DMD, 2003, Southern Ill Univ-Edw/Dental M

**Jain, Rajneesh**, Associate Professor, Clinical  
DMD, 1984, All India Inst Of Med Sciences

**James, Gaylord**, Emeritus Associate Professor  
DDS, 1956, Case Western Reserve University

**Jenkins, David**, Emeritus Associate Professor  
PHD, 1975, Penn State-Univ Park Campus

**Joy, Anita**, Chair/Associate Professor  
PHD, 2010, Rush University

**Ketteman, Daniel**, Associate Professor, Clinical  
DDS, 1981, Univ Of Missouri-Kansas City

**Knobeloch, Dennis**, Associate Professor, Clinical  
DMD, 1991, Southern Illinois University  
Edwardsville

**Kosten, Katie**, Assistant Professor  
DMD, 2002, Southern Ill Univ-Edw/Dental M

**Langenwalter, Eric**, Assistant Dean/Assistant  
Professor  
MS, 1987, Univ Of Iowa

**LeDoux, Gerard**, Assistant Professor, Clinical  
DDS, 1965, Saint Louis University

**Longos, Cathy**, Assistant Professor, Clinical  
DMD, 1989, Southern Ill Univ-Edw/Dental M

**Mangrola, Parth**, Instructor, Clinical  
DMD, 2017, Midwestern Univ

**Marincel, John**, Assistant Professor, Clinical

DDS, 1980, Univ Of Missouri-Kansas City

**Maroso, Delmo**, Emeritus Professor

, ,

**Martinez, Norman**, Emeritus Professor  
MEDUC, 1975, Marquette University

**Mathus, James**, Assistant Professor, Clinical  
DMD, 1986, Southern Ill Univ-Edw/Dental M

**McCracken, Barbara**, Assistant Professor  
PHD, 1998, Univ Of Ill-Urbana Champaign

**Miley, D.**, Professor, Clinical  
DMD, 2000, Southern Illinois University  
Edwardsville

**Milligan III, Wilbert**, Assistant Professor, Clinical  
PHD, 1972, Univ Of Pittsburgh

**Mischia, Arthur**, Associate Professor, Clinical  
DMD, 1978, Washington University

**Naylor, Jeffrey**, Assistant Professor, Clinical  
DMD, 2009, Southern Ill Univ-Edw/Dental M

**Nelson, Thomas**, Emeritus Professor

, ,

**Newquist, Lawrence**, Professor, Clinical  
DMD, 2000, Southern Illinois University  
Edwardsville

**Norman, Richard**, Emeritus Professor  
MS, 1964, Indiana Univ-Purdue Indnapols

**Omran, Mohamed**, Assistant Professor  
MS, 2012, Saint Louis University

**Otsuka, Allen**, Emeritus Associate Professor  
PHD, 1978, Univ Of California-San Diego

**Pandarakalam, Cyril**, Associate Professor  
CORPOM, 2010, Univ Of Southern California

**Pierson, David**, Assistant Professor, Clinical  
DMD, 1990, Southern Illinois University  
Edwardsville

**Poeschl, Charles**, Assistant Professor, Clinical  
DDS, 1980, Univ Of Missouri-Kansas City

**Rader, Ryan**, Assistant Professor, Clinical  
MS, 2007, Saint Louis University

**Raney, Stephen**, Associate Professor, Clinical  
DMD, 1984, Southern Illinois University  
Edwardsville

**Rapini, Vincent**, Assistant Professor, Clinical  
DDS, 1980, Univ Of Missouri-Kansas City

**Rawson, Kenneth**, Associate Dean/Associate  
Professor  
DMD, 2005, Southern Illinois University  
Edwardsville

**Reed, Donald**, Instructor  
MS, 2011, Southern Illinois University Carbondale

**Rieken, Susan**, Associate Professor, Clinical  
DMD, 1995, Southern Illinois University  
Edwardsville

**Roller, Neal**, Emeritus Professor  
MS, 1975, Univ Of Missouri-Kansas City

**Rotter, Bruce**, Dean/Professor  
MS, 1993, Univ Of Iowa

**Rowland, Kevin**, Associate Professor  
PHD, 2003, West Virginia University

**Scanlon, Brittany**, Assistant Professor, Clinical

, ,

**Schlott, Benjamin**, Assistant Professor, Clinical  
DMD, 2004, Southern Ill Univ-Edw/Dental M

**Schmidt, James**, Assistant Professor, Clinical  
DDS, 1982, Northwestern Univ-Chicago

**Schuette, Jacob**, Assistant Professor, Clinical  
DMD, 2008, Southern Ill Univ-Edw/Dental M

**Schwenk, Debra**, Emerita Ast Professor  
DMD, 2000, Southern Illinois University  
Edwardsville

**Seaton, William**, Associate Professor, Clinical  
DDS, 1982, Univ Of Missouri-Kansas City

**Shafer, Kathy**, Assistant Dean/Clinical Assistant  
Professor  
DMD, 1988, Southern Illinois University

Edwardsville

**Sokolowski, Joseph**, Associate Professor, Clinical DDS, 1982, Univ Of Missouri-Kansas City

**Spivey, Valerie**, Assistant Professor DMD, 2010, Southern Ill Univ-Edw/Dental M

**Stamos, Patrick**, Instructor, Clinical DDS, 2015, Univ Of Missouri-Kansas City

**Steinhauer, Tad**, Associate Professor DMD, 1999, Southern Illinois University Edwardsville

**Stewart, Gregory**, Emeritus Professor PHD, 1975, Univ Of Texas - Austin

**Studnicki, Kerry**, Assistant Professor DPHAR, 2012, Southern Illinois University Edwardsville

**Thomas, Cornell**, Assistant Dean/Associate Professor DDS, 1978, Univ Of Missouri-Kansas City

**Tutwiler, Strudwick**, Instructor, Clinical DMD, 2012, Univ Of Alabama In Birmingham

**Upadhyaya, Jasbir**, Assistant Professor PHD, 2015, University Of Manitoba

**Utreja, Achint**, Associate Professor PHD, 2014, Univ Of Connecticut

**Varble, Patrick**, Associate Professor, Clinical DMD, 1992, Southern Illinois University Edwardsville

**Weber, Mary**, Assistant Professor, Clinical DMD, 1996, Southern Ill Univ-Edw/Dental M

**Welch, Danny**, Associate Professor PHD, 2011, Univ Of California-Riverside

**Whitener, Sara**, Assistant Professor, Clinical DDS, 1991, Northwestern University

**Whitson Jr., Stanley**, Emeritus Professor PHD, 1971, Univ Of Arkansas

**Wirtz, Andrew**, Instructor, Clinical DMD, 2017, Case Western Resrve Univ

**Wohlford, Brent**, Assistant Professor, Clinical DMD, 1975, Southern Ill Univ-Edw/Dental M

**Woodlock, Daniel**, Associate Professor, Clinical DDS, 1980, Loyola University Of Chicago

## **Economics and Finance**

**Ault, David**, Emeritus Professor PHD, 1969, Univ Of Ill-Urbana Champaign

**Belasen, Ariel**, Associate Professor PHD, 2007, St Univ Of Ny Col-Binghamton

**Bharati, Rakesh**, Chair/Professor PHD, 1991, Indiana Univ-Bloomington

**Demirer, Riza**, Professor PHD, 2003, Univ Of Kansas

**Edmonds, Radcliffe**, Emeritus Associate Professor PHD, 1979, Univ Of Michigan-Ann Arbor

**Elliott, Donald**, Emeritus Professor PHD, 1976, Univ Of Minnesota-Twin Cities

**Evrensel, Ayse**, Associate Professor PHD, 1999, Clemson University

**Jategaonkar, Shrikant**, Associate Professor PHD, 2009, Univ Of Arizona

**Jia, Jingyi**, Associate Professor PHD, 2006, Temple University

**Kutan, Ali**, Professor, Distng Research PHD, 1990, Arizona State University

**Levin, Stanford**, Emeritus Professor PHD, 1974, Univ Of Michigan-Ann Arbor

**Lin, An-Yhi**, Emeritus Professor PHD, 1967, Iowa State University

**Meisel, John**, Emeritus Professor PHD, 1978, Boston College

**Pettit, Mary**, Instructor MA, 1977, Univ Of Tennessee

**Richards, Warren**, Instructor MS, 1995, Southern Illinois University Edwardsville



**Sullivan, Timothy**, Instructor  
PHD, 1995, Univ Of Maryland College Park

**Sultan, Paul**, Emeritus Professor  
PHD, 1950, Cornell University

**Tracey, Marlon**, Assistant Professor  
PHD, 2016, St Univ Of Ny Col-Binghamton

**Wolff, Laura**, Instructor  
MA, 1988, Univ Of Missouri-Columbia

**Ying, Jie**, Assistant Professor  
PHD, 2018, Univ Of Iowa

### **Educational Leadership**

**Andris, James**, Emeritus Professor  
PHD, 1974, Indiana Univ-Bloomington

**Burcky, William**, Emeritus Professor  
PHD, 1971, Saint Louis University

**Gillian, Barbara**, Instructor  
MSED, 1996, Southern Illinois University  
Edwardsville

**Holt, Janet**, Emerita Professor  
PHD, 1994, Univ Of Florida

**Hull, Gary**, Emeritus Professor  
PHD, 1972, Michigan State University

**Hunt, John**, Emeritus Associate Professor  
PHD, 1977, Southern Illinois University Carbondale

**Knowlton, David**, Professor  
EDD, 1998, Univ Of Memphis

**Krchniak, Stefan**, Emeritus Professor  
PHD, 1968, New York University

**Leland, Andrew**, Assistant Professor  
PHD, 2018, Rutgers State University

**Liu, Yu**, Professor  
PHD, 2000, Texas A & M-Commerce

**Logue, Jennifer**, Associate Professor  
PHD, 2009, Univ Of Ill-Urbana Champaign

**Morice, Linda**, Emerita Professor  
PHD, 1992, Saint Louis University

**Mundt, Frederick**, Emeritus Professor  
PHD, 1961, Univ Of Wisconsin-Madison

**Nelson, Charles**, Emeritus Professor  
PHD, 1970, Southern Illinois University Carbondale

**Nelson, Wayne**, Emeritus Professor  
EDD, 1989, Virginia Tech

**Popp, Jerome**, Emeritus Professor  
PHD, 1970, Indiana Univ-Bloomington

**Puchner, Laurel**, Chair/Professor  
PHD, 1998, Univ Of Pennsylvania

**Reeves, Alison**, Associate Professor  
PHD, 2006, Univ Of Arizona

**Richards-Ellsworth, Rosanda**, Emerita Associate  
Professor  
PHD, 1970, Univ Of Wisconsin-Madison

**Sasso, Pietro**, Assistant Professor  
PHD, 2012, Old Dominion University

**Schusky, Mary**, Emerita Ast Professor  
MLS, 1962, Univ Of Ill-Urbana Champaign

**Smith, Curtis**, Emeritus Professor  
PHD, 1985, Ohio State University

**Snipes, Jeremy**, Assistant Professor  
PHD, 2017, Indiana Univ-Bloomington

**Theodore, Peter**, Emeritus Associate Professor  
PHD, 2001, Saint Louis University

**Thomeczek, Melissa**, Associate Professor  
PHD, 2002, Indiana State University

**Van Tuyle, Vicki**, Associate Professor  
EDD, 2008, Western Illinois University

**Wiley, Walter**, Emeritus Professor  
PHD, 1966, Claremont Graduate Univ

**Yu, Tianlong**, Professor  
EDD, 2002, St Univ Of Ny Col-Binghamton

### **Electrical and Computer Engineering**

**Alkin, Oktay**, Emeritus Professor  
PHD, 1986, Univ Of Alabama

**Bollini, Raghupathy**, Emeritus Professor  
PHD, 1971, Purdue University

**Chen, Jen-Shiun**, Emeritus Professor  
PHD, 1983, Ohio State University

**Engel, George**, Professor  
SCD, 1990, Washington University

**Godhwani, Arjun**, Emeritus Professor  
PHD, 1972, Univ Of Arkansas

**Hauer, Daniel**, Instructor  
MS, 2014, Southern Illinois University Edwardsville

**Klingensmith, Jon**, Assistant Professor  
PHD, 2003, Case Western Resrve Univ

**Leander, Robert**, Associate Professor  
PHD, 2002, Univ Of Illinois-Chicago

**Lozowski, Andrzej**, Chair/Professor  
PHD, 1999, Univ Of Louisville

**Noble, Bradley**, Associate Professor  
SCD, 2000, Washington University

**Smith, Scott**, Emeritus Professor  
PHD, 1991, Univ Of Ill-Urbana Champaign

**Umbaugh, Scott**, Professor  
PHD, 1989, Missouri Univ of Science Tech

**Wang, Xin**, Associate Professor  
PHD, 2011, Marquette University

**Wang, Yadong**, Assistant Professor  
PHD, 2010, Univ Of Oklahoma

**York, Timothy**, Assistant Professor  
DENGR, 2015, Washington University

**Youn, Luis**, Emeritus Professor  
PHD, 1985, Univ Of Houston-Downtown Coll

### **English Lang and Lit**

**Aktuna, Seran**, Professor  
PHD, 1993, Univ Of Pennsylvania

**Anderson, Jill**, Associate Professor  
PHD, 2006, Michigan State University

**Berger, Charles**, Professor  
PHD, 1977, Yale University

**Black, Margaret**, Assistant Professor  
MA, 2010, Southern Illinois University Carbondale

**Brooks, Tisha**, Assistant Professor  
PHD, 2013, Tufts University

**Butler, David**, Emeritus Associate Professor  
PHD, 1972, Saint Louis University

**Cali, Elizabeth**, Assistant Professor  
PHD, 2014, Univ Of Texas At San Antonio

**Clark, Tiana**, Assistant Professor  
MFA, 2017, Vanderbilt University

**Cleary, Adam**, Instructor  
MFA, 2005, Univ Of Missouri-St Louis

**Denby, Robert**, Emeritus Ast Professor  
PHD, 1974, Univ Of Ill-Urbana Champaign

**Despain, Jessica**, Associate Professor  
PHD, 2008, Univ Of Iowa

**Edwards, Keith**, Instructor  
MA, 2008, Southern Illinois University Edwardsville

**Farley, Alice**, Emerita Professor  
PHD, 1979, Brown University

**Ferguson, Christy**, Director/Instructor  
MA, 2014, Southern Illinois University Edwardsville

**Funk, Allison**, Emerita Distinguished Res Prof  
MFA, 1978, Columbia University

**Funkhouser, Linda**, Emerita Associate Professor  
PHD, 1978, Saint Louis University

**Gerber, Lauren**, Instructor  
MA, 2011, Southern Illinois University Edwardsville

**Gurfinkel, Helena**, Associate Professor  
PHD, 2007, Tufts University

**Hardman, Joel**, Chair/Professor  
PHD, 1994, Univ Of Pennsylvania

**Havens, Daniel**, Emeritus Professor  
PHD, 1965, Univ Of Michigan-Ann Arbor

**Henderson, Brian**, Associate Professor  
PHD, 2010, Univ South Carolina-Columbia

**Hildebrandt, Kristine**, Associate Professor  
PHD, 2003, Univ California-Santa Barba

**Ising, Daniel**, Instructor  
MA, 2009, Southern Illinois University Edwardsville

**Johnson, Heather**, Associate Professor  
PHD, 2008, Indiana Univ-Bloomington

**Johnson, Matthew**, Professor  
PHD, 2006, Indiana Univ-Bloomington

**Kropp, Lloyd**, Emeritus Professor  
MA, 1961, Univ Of Pittsburgh

**Kryah, Joshua**, Assistant Professor  
PHD, 2006, Univ Of Nevada - Las Vegas

**LaFond, Larry**, Professor  
PHD, 2001, Univ South Carolina-Columbia

**Laux, Jessi**, Instructor  
MA, 2007, Southern Illinois University Edwardsville

**Lawrence, Barbara**, Emerita Professor  
PHD, 1973, Saint Louis University

**Meyering, Sheryl**, Emerita Professor  
PHD, 1986, Michigan State University

**O'Gorman, Gerald**, Emeritus Associate Professor  
PHD, 1973, Saint Louis University

**Pendergast, John**, Professor  
PHD, 1994, Univ Of Missouri-Columbia

**Ragen, Brian**, Emeritus Professor  
PHD, 1987, Princeton University

**Ramaswamy, Anushiya**, Professor  
PHD, 1997, Univ Of Nevada - Reno

**Rambsy, Howard**, Professor  
PHD, 2004, Pennsylvania State Univ

**Redmond, Eugene**, Emeritus Professor  
MA, 1966, Washington University

**Richardson, Betty**, Emerita Professor  
PHD, 1968, Univ Of Nebraska At Lincoln

**Ruff, Nancy**, Professor  
PHD, 1987, Princeton University

**Savoie, John**, Professor  
PHD, 1998, Yale University

**Schaefer, Ronald**, Emeritus Distinguished Res Prf  
PHD, 1980, Univ Of Kansas

**Schmidt, Geoffrey**, Professor  
MFA, 1990, Univ Of Alabama

**Schmidt, Nicola**, Instructor  
MFA, 1992, Univ Of Alabama

**Seltzer, Catherine**, Associate Professor  
PHD, 2005, Univ No Carolina-Chapel Hill

**Skoblow, Jeffrey**, Emeritus Professor  
PHD, 1985, Johns Hopkins University, The

**Smithson, Isaiah**, Emeritus Professor  
PHD, 1977, Univ Of California-Davis

**Springer, Carl**, Emeritus Professor  
PHD, 1984, Univ Of Wisconsin-Madison

**Spurgeon, Dickie**, Emeritus Professor  
PHD, 1967, Univ Of Ill-Urbana Champaign

**Steible, Mary**, Instructor  
MA, 1990, Southern Illinois University Edwardsville

**Vansyoc, Wayland**, Emeritus Professor  
PHD, 1959, Univ Of Michigan-Ann Arbor

**Vogrin, Valerie**, Professor  
MFA, 1991, Univ Of Alabama

**Voller, John**, Emeritus Professor  
PHD, 1987, Univ Of California-San Diego

**Wilper, Donald**, Instructor  
MA, 1995, Southern Illinois University Edwardsville

## **Environmental Sciences**

**Adegboyega, Nathaniel**, Assistant Professor  
PHD, 2014, Florida Instit Tech

**Greenfield, Ben**, Assistant Professor  
PHD, 2016, Univ Of California-Berkeley

**Guehlstorf, Nicholas**, Chair/Professor  
PHD, 2002, Purdue University

**Lin, Zhiqing**, Professor  
PHD, 1996, McGill University

**Locke, Sharon**, Director/Associate Professor  
PHD, 1995, Univ Of Minnesota-Twin Cities

**Martinez, Adriana**, Assistant Professor  
PHD, 2013, Univ Of Oregon

**Retzlaff, William**, Associate Dean/Distinguished  
Research Professor  
PHD, 1987, Clemson University

**Theodorakis, Christopher**, Professor  
PHD, 1994, Univ Of Tennessee

**Yoon, Kyong-Sup**, Assistant Professor  
PHD, 2006, Univ Of Massachusetts-Amherst

### **Family Health/Community Health Nursing**

**Barron, Mary**, Associate Professor  
PHD, 2008, Saint Louis University

**Boatman, Marilyn**, Instructor  
MS, 2007, Southern Illinois University Edwardsville

**Green, Lisa**, Assistant Professor  
PHD, 2015, Univ Of Missouri-St Louis

**Hobson, Mary**, Instructor  
MPH, 2002, Univ Of Illinois- Springfield

**Jackson, Cheryl**, Instructor  
MS, 1998, Southern Illinois University Edwardsville

**Kurilla, Nancy**, Instructor  
MSN, 2014, Walden University

**LaFollette, Jean**, Instructor  
MSN, 2010, Univ Of Missouri-St Louis

**McMillin, Molly**, Instructor  
MS, 2017, Southern Illinois University Edwardsville

**Omondi, Linda**, Associate Professor, Clinical  
DNP, 2007, Augusta Univ

**Petri, Carly**, Instructor  
MS, 2010, Southern Illinois University Edwardsville

**Phelan, Caitlin**, Instructor  
MSN, 2011, Southern Illinois University  
Edwardsville

**Reed, Amy**, Coordinator/Instructor  
MS, 2012, Southern Illinois University Edwardsville

**Schmitz, Jennifer**, Instructor  
MS, 2014, Southern Illinois University Edwardsville

**Sobczak, Bernadette**, Assistant Professor, Clinical  
MSN, 2003, Southern Illinois University  
Edwardsville

**White, Kim**, Associate Professor, Clinical  
PHD, 2005, Barry University

**York, Emily**, Instructor  
DNP, 2018, Rush University

### **Foreign Language and Literature**

**Bezhanova, Olga**, Associate Professor  
PHD, 2008, Yale University

**Carruthers, Heidi**, Assistant Professor  
PHD, 2013, Southern Illinois University Carbondale

**Carstens-Wickham, S.**, Professor  
PHD, 1980, Univ No Carolina-Chapel Hill

**Florida Berrocal, Joaquin**, Associate Professor  
PHD, 2009, Johns Hopkins University, The

**Fonseca, Elizabeth**, Emerita Associate Professor  
PHD, 1982, Univ Of Iowa

**Griffen, Toby**, Emeritus Professor  
PHD, 1975, Univ Of Florida

**Lavallee, Thomas**, Associate Professor  
PHD, 2004, Washington University

**Licon Oppenheimer, Jose**, Instructor  
PHD, 2016, Washington University

**Mann, Joan**, Professor  
PHD, 1987, Univ Of Florida

**Osiek, Betty**, Emerita Professor  
PHD, 1966, Washington University

**Pallemans, Geert**, Professor

PHD, 1992, Florida State University

**Rocha, Carolina**, Professor  
PHD, 2001, Univ Of Texas - Austin

**Simms, Douglas**, Chair/Professor  
PHD, 2003, Univ Of Texas - Austin

## Geography

**Acheson, Gillian**, Professor  
PHD, 2003, Texas A&M Univ-Main Campus

**Bagchi, Deipica**, Emerita Professor  
PHD, 1977, Oregon State University

**Black, Alan**, Assistant Professor  
PHD, 2015, Univ Of Georgia

**Brown Amilian, Stacey**, Associate Professor  
PHD, 2011, Oklahoma State University

**Clements, Donald**, Emeritus Associate Professor  
PHD, 1975, Southern Illinois University Carbondale

**Grossman, Michael**, Professor  
PHD, 2003, Univ Of Wisconsin-Madison

**Hanlon, James**, Associate Professor  
PHD, 2008, Univ Of Kentucky

**Hildebrandt, Mark**, Associate Professor  
PHD, 1999, Arizona State University

**Hu, Shunfu**, Professor  
PHD, 1998, Univ Of Georgia

**Hume, Susan**, Chair/Associate Professor  
PHD, 2005, Univ Of Oregon

**Locke, Sharon**, Director/Associate Professor  
PHD, 1995, Univ Of Minnesota-Twin Cities

**Martinez, Adriana**, Assistant Professor  
PHD, 2013, Univ Of Oregon

**Mendelson, Robert**, Emeritus Professor  
MUP, 2000, Univ Of Ill-Urbana Champaign

**Odemerho, Francis**, Associate Professor  
PHD, 1982, Clark University

**Pearson, Randall**, Director/Professor

PHD, 1993, Indiana State University

**Shaw, Wendy**, Professor  
PHD, 1994, Univ Of Georgia

**Shouse, Michael**, Assistant Professor  
PHD, 2014, Univ Of Kentucky

**Thornton, Charles**, Emeritus Professor  
PHD, 1970, Univ Of Tennessee

**Zhou, Bin**, Professor  
PHD, 1994, Univ Of Georgia

## Historical Studies

**Alexander, Erik**, Assistant Professor  
PHD, 2011, Univ Virginia - Main Campus

**Cheeseboro, Anthony**, Associate Professor  
PHD, 1993, Michigan State University

**Chen, Ching-Chih**, Emeritus Professor  
PHD, 1973, Harvard-Radcliffe

**Fowler, Laura**, Associate Professor  
PHD, 2003, Loyola University Of Chicago

**Frick, Carole**, Chair/Professor  
PHD, 1995, Univ Of California-Los Angeles

**Gallaher, John**, Emeritus Professor  
PHD, 1960, Saint Louis University

**Grant, Samuel**, Emeritus Associate Professor  
PHD, 1968, Univ Of Michigan-Ann Arbor

**Haas, James**, Emeritus Professor  
PHD, 1960, Univ Of Ill-Urbana Champaign

**Hansen, Stephen**, Emeritus Professor  
PHD, 2000, Univ Of Illinois-Chicago

**Harris, Jessica**, Assistant Provost/Associate Professor  
PHD, 2011, Cornell University

**Harrison, Victoria**, Instructor  
MA, 1991, Southern Illinois University Edwardsville

**Hinz, Christienne**, Associate Professor  
PHD, 2001, Ohio State University

**Jack, Bryan**, Associate Professor  
PHD, 2004, Saint Louis University

**Jacobitti, Edmund**, Emeritus Professor  
PHD, 1972, Univ Of Wisconsin-Madison

**Jordan, Thomas**, Coordinator/Associate Professor  
PHD, 2000, Univ Of Ill-Urbana Champaign

**Manuel, Jeffrey**, Associate Professor  
PHD, 2009, Univ Of Minnesota-Twin Cities

**McClinton, Rowena**, Professor  
PHD, 1996, Univ Of Kentucky

**Miller, Jennifer**, Associate Professor  
PHD, 2008, Rutgers St U Nj-New Brunswick

**Millett, Richard**, Emeritus Professor  
PHD, 1966, Univ Of New Mexico

**Nordhauser, Norman**, Emeritus Professor  
PHD, 1970, Stanford University

**Nore, Ellen**, Emerita Associate Professor  
PHD, 1980, Stanford University

**Paulett, Robert**, Associate Professor  
PHD, 2007, College Of William And Mary

**Pearson, Samuel**, Emeritus Dean  
PHD, 1964, Univ Of Chicago

**Portwood, Shirley**, Emerita Professor  
PHD, 1982, Washington University

**Ruckh, Eric**, Director/Associate Professor  
PHD, 1997, Univ Of California-Irvine

**Santoni, Wayne**, Emeritus Associate Professor  
PHD, 1968, Univ Of Kansas

**Stacy, Jason**, Professor  
PHD, 2006, Loyola University Of Chicago

**Tamari, Stephen**, Professor  
PHD, 1998, Georgetown University

**Taylor, John**, Emeritus Professor  
PHD, 1972, Univ Of Chicago

**Thomason, Allison**, Professor  
PHD, 1999, Columbia University

**Vongsathorn, Kathleen**, Assistant Professor  
PHD, 2013, Univ Of Oxford

**Weingartner, James**, Emeritus Professor  
PHD, 1967, Univ Of Wisconsin-Madison

### **Lovejoy Library**

**Anthony, Paul**, Emeritus Associate Professor  
MLIB, 1983, Univ Of Missouri-St Louis

**Behm, Kathlyn**, Emerita Associate Professor  
MLIB, 1991, Univ Of Missouri-Columbia

**Calcagno, Philip**, Emeritus Associate Professor  
MLS, 1969, Univ Of Ill-Urbana Champaign

**Carlisle, Linda**, Emerita Associate Professor  
MLIB, 1985, Univ Of Ill-Urbana Champaign

**Cody, Dean**, Emeritus Associate Professor  
PHD, 1984, Univ Of Texas - Austin

**Del Rio, Lora**, Assistant Professor  
MS, 2008, Univ Of Ill-Urbana Champaign

**Denue, Gary**, Emeritus Associate Professor  
MLS, 1969, St Univ Of Ny Coll At Geneseo

**Dickman, Therese**, Associate Professor  
MA, 1984, Univ Of Michigan-Ann Arbor

**Feeney, Martha**, Emerita Associate Professor  
MLS, 1967, Pratt Institute

**Fields, Lynnette**, Emerita Associate Professor  
MLS, 1994, Univ Of Missouri-St Louis

**Garbs, Jill**, Emerita Associate Professor  
MLIB, 1994, Univ Of Missouri-Columbia

**Graser, Marlee**, Assistant Professor  
MS, 2014, Univ Of Ill-Urbana Champaign

**Gray, Juliet**, Assistant Dean/Assistant Professor  
MLIB, 2003, Univ Of Ill-Urbana Champaign

**Hansen, Julia**, Emerita Associate Professor  
MLIB, 1973, Dominican University

**Jackson, Lydia**, Dean/Associate Professor  
MLIB, 1997, Univ Of Missouri-Columbia

**Johnson, Charlotte**, Emerita Associate Professor  
MLIB, 1975, Univ Of Wisconsin-Madison

**Kerber, Stephen**, Professor  
PHD, 1979, Univ Of Florida

**Miller, Charles**, Emeritus Associate Professor  
MM, 1972, Southern Illinois University Edwardsville

**Paris, Matthew**, Associate Professor  
MLIB, 1996, Indiana Univ-Bloomington

**Sherwin, M.**, Emerita Associate Professor  
MLS, 1968, Univ Of Ill-Urbana Champaign

**Starratt, Joseph**, Emeritus Dean  
MLIB, 1980, Emory University

### **Management and Marketing**

**Aucamp, Donald**, Emeritus Professor  
SCD, 1971, Washington University

**Berkley, Robyn**, Associate Professor  
PHD, 2001, Univ Of Wisconsin-Madison

**Flight, Richard**, Associate Professor  
PHD, 2007, Univ Of Alabama

**Franke, Arnold**, Emeritus Associate Professor  
MS, 1960, Purdue University

**Giacobbe, Ralph**, Emeritus Associate Professor  
PHD, 1991, Arizona State University

**Hair, Michael**, Assistant Professor  
PHD, 2015, Georgia Instit Tech

**Hershberger, Edmund**, Chair/Associate Professor  
PHD, 2003, Georgia State University

**Hunt, Jenni**, Instructor  
MBA, 2004, Southern Illinois University  
Edwardsville

**Joplin, Janice**, Associate Dean/Professor  
PHD, 1994, Univ Of Texas - Arlington

**Kaikati, Jack**, Emeritus Professor  
PHD, 1976, Florida State University

**Kim, Sungho**, Assistant Professor  
PHD, 2012, Ohio State University

**Love, Mary**, Associate Professor  
PHD, 2001, Univ Of Missouri-Columbia

**Lynch, James**, Emeritus Associate Professor  
PHD, 1984, Univ Of Texas - Austin

**Madupalli, Ramana**, Associate Professor  
PHD, 2007, Georgia State University

**McKinney, Richard**, Emeritus Professor  
PHD, 1969, Saint Louis University

**Michlitsch, Joseph**, Emeritus Associate Professor  
PHD, 1980, Univ Of South Dakota

**Pannirselvam, G.**, Associate Professor  
PHD, 1995, Arizona State University

**Petry, Joel**, Instructor  
MBA, 2007, Washington University

**Robberson, Katherine**, Instructor  
MBA, 2003, Univ Of Missouri-Columbia

**Schoenecker, Timothy**, Dean/Associate Professor  
PHD, 1994, Purdue University

**Segal, Madhav**, Emeritus Professor  
PHD, 1979, Univ Of Texas - Arlington

**Simon Solomon, Stanislaus**, Assistant Professor  
PHD, 2015, Univ Of Missouri-St Louis

**Statler, Luther**, Emeritus Ast Professor  
PHD, 1977, Saint Louis University

**Sullivan, George**, Emeritus Professor  
LLM, 1982, New York University

**Sweida, Gloria**, Assistant Professor  
PHD, 2018, Claremont Graduate Univ

**Watson Jr., George**, Associate Professor  
PHD, 1997, Virginia Tech

**Winter, Christine**, Instructor  
MBA, 1998, Southern Illinois University  
Edwardsville

**Zeng, Yuping**, Associate Professor  
PHD, 2007, Peking University

## Mass Communications

**Atwood, Alfred**, Instructor  
MS, 2008, Southern Illinois University Edwardsville

**Baasanjav, Undrah**, Assistant Professor  
PHD, 2006, Ohio University

**Bukalski, Peter**, Emeritus Professor  
PHD, 1975, Ohio State University

**Byers, Cory**, Instructor  
MA, 2005, Southern Illinois University Carbondale

**Donald, Ralph**, Emeritus Professor  
PHD, 1987, Univ Of Massachusetts-Amherst

**Hicks, Gary**, Professor  
PHD, 1998, Univ Of Texas - Austin

**Kapatamoyo, Musonda**, Chair/Associate Professor  
PHD, 2007, Ohio University

**Li, Shi**, Assistant Professor  
PHD, 2015, Indiana University System

**Maynard, Riley**, Emeritus Professor  
PHD, 1995, Saint Louis University

**Mishra, Suman**, Associate Professor  
PHD, 2010, Temple University

**Poepsel, Mark**, Assistant Professor  
PHD, 2011, Univ Of Missouri-Columbia

**Regnell, Barbara**, Emerita Professor  
MA, 1966, Syracuse University

**Rider, John**, Emeritus Professor  
PHD, 1963, Michigan State University

**Speno, Ashton**, Assistant Professor  
PHD, 2016, Univ Of Missouri-Columbia

**Yu, Jason**, Associate Professor  
PHD, 2009, Univ No Carolina-Chapel Hill

## Mathematics and Statistics

**Agustin, Ma Zenia**, Professor  
PHD, 1997, Bowling Green State Univ

**Agustin, Marcus**, Professor

PHD, 1997, Bowling Green State Univ

**Budzban, Gregory**, Dean/Professor  
PHD, 1991, Univ Of South Florida

**Chew, Song**, Professor  
PHD, 2005, Purdue University

**Cooper, Mary**, Emerita Professor  
SCD, 1970, Washington University

**Downen, Letitia**, Instructor  
MS, 2006, Southern Illinois University Edwardsville

**Eames, Cheryl**, Assistant Professor  
PHD, 2014, Illinois State University

**Hasty, Marilyn**, Emerita Associate Professor  
PHD, 1986, Southern Illinois University Carbondale

**Ho, Chung-Wu**, Emeritus Professor  
PHD, 1970, Massachusetts Inst Tech

**Huff, Loran**, Instructor  
MS, 2004, Univ Of Tennessee

**Jarosz, Krzysztof**, Emeritus Distinguished Res Prf  
PHD, 1982, Univ Of Warsaw

**Karimpour, Rahim**, Emeritus Professor  
PHD, 1977, Univ Of Oregon

**Kniepkamp, Barbara**, Instructor  
MS, 1993, Southern Illinois University Edwardsville

**Lazerson, Earl**, Emeritus President  
PHD, 1982, Univ Of Michigan-Ann Arbor

**Ledzewicz, Urszula**, Emerita Distinguished Res Prof  
PHD, 1984, University Of Lodz

**Leem, Koung**, Professor  
PHD, 2003, Univ Of Iowa

**Liu, Jun**, Assistant Professor  
PHD, 2015, Southern Illinois University Carbondale

**Loreaux, Jireh**, Assistant Professor  
PHD, 2016, Univ Of Cincinnati

**Lu, Chunqing**, Emeritus Professor  
PHD, 1986, State Univ Of New York-Buffalo



**May, Yukiko**, Instructor  
MS, 1993, Southern Illinois University Edwardsville

**McDaniel Jr., Raymond**, Instructor  
MA, 1985, Univ Of Texas - Austin

**Morrese, Steven**, Instructor  
MS, 1985, Air Force Inst Of Technology

**Nagel, Ginger**, Instructor  
MS, 2009, Southern Illinois University Edwardsville

**Neath, Andrew**, Professor  
PHD, 1994, Univ Of California-Davis

**Pailden, Junvie**, Assistant Professor  
PHD, 2013, Bowling Green State Univ

**Parish, James**, Associate Professor  
PHD, 1985, Univ Of Chicago

**Pelekanos, George**, Chair/Distinguished Research Professor  
PHD, 1997, Univ Of Delaware

**Phillips, Paul**, Emeritus Professor  
PHD, 1968, Ohio State University

**Qiang, Beidi**, Assistant Professor  
PHD, 2017, Univ South Carolina-Columbia

**Rigdon, Steven**, Emeritus Distinguished Res Prf  
PHD, 1985, Univ Of Missouri-Columbia

**Sewell, Edward**, Professor, Distng Research  
PHD, 1990, Cornell University

**Song, Myung**, Professor  
PHD, 2005, Univ Of Iowa

**Staples, George**, Professor  
PHD, 2004, Southern Illinois University Carbondale

**Steinberg, David**, Emeritus Dean  
SCD, 1968, Washington University

**Verderber, Nadine**, Emerita Professor  
PHD, 1974, Ohio State University

**Voepel, Tammy**, Associate Professor  
PHD, 1997, Univ Of Missouri-Columbia

## Mechanical and Industrial Engineering

**Celik, Serdar**, Associate Professor  
PHD, 2007, Southern Illinois University Carbondale

**Chen, Xin**, Associate Professor  
PHD, 2009, Purdue University

**Cho, Sohyung**, Program Director/Professor  
PHD, 2000, Penn State-Univ Park Campus

**Darabi, Jafar**, Professor  
PHD, 2000, Univ Of Maryland Univ Col

**Denn, Michael**, Instructor  
DENGR, 2013, Washington University

**Eneyo, Emmanuel**, Professor  
PHD, 1991, Purdue University

**Gu, Keqin**, Professor, Distng Research  
PHD, 1988, Georgia Instit Tech

**Karacal, Cem**, Dean/Professor  
PHD, 1991, Oklahoma State University

**Ko, Hoo Sang**, Associate Professor  
PHD, 2011, Purdue University

**Kweon, Soondo**, Associate Professor  
PHD, 2009, Univ Of Ill-Urbana Champaign

**Lee, H.**, Professor  
PHD, 1989, Univ Of Michigan-Ann Arbor

**Lotfi Yagin, Nima**, Assistant Professor  
DENGR, 2016, Missouri Univ of Science Tech

**Luo, Albert**, Professor, Distng Research  
PHD, 1996, University Of Manitoba

**Molki, Majid**, Chair/Distinguished Research Professor  
PHD, 1982, Univ Of Minnesota-Twin Cities

**Onal, Sinan**, Assistant Professor  
PHD, 2014, Univ Of South Florida

**Sevim, Hasan**, Emeritus Dean  
SCD, 1984, Columbia University

**Shavezipur, Mohammad**, Assistant Professor  
PHD, 2008, Univ Of Waterloo

**Van Roekel, Jacob**, Emeritus Professor  
MS, 1968, Purdue University

**Wang, Fengxia**, Associate Professor  
PHD, 2008, Purdue University

**Yan, Terry**, Professor  
PHD, 1993, Univ Of California-Davis

**Zhang, Mingshao**, Assistant Professor  
PHD, 2016, Stevens Instit Tech

## Music

**Anop, Lenora**, Professor  
DMUS, 1993, Univ Of Michigan-Ann Arbor

**Archer, Kimberly**, Professor  
DMUS, 2003, Univ Of Texas - Austin

**Bell, John**, Professor  
EDD, 1986, Univ Of Ill-Urbana Champaign

**Brown, Stephen**, Emeritus Professor  
MM, 1970, Southern Illinois University Edwardsville

**Chin, Huei Li**, Professor  
PHD, 2002, Ohio State University

**Coan, Darryl**, Professor  
EDD, 1992, Univ Of Ill-Urbana Champaign

**Greenwood, Andrew**, Assistant Professor  
PHD, 2012, Univ Of Chicago

**Haley, Johnetta**, Emerita Professor  
MM, 1972, Southern Illinois University Edwardsville

**Haydon, Ricky**, Emeritus Professor  
MM, 1987, Southern Illinois University Edwardsville

**Hinson, James**, Professor  
DMUS, 1995, Florida State University

**Ho, Allan**, Emeritus Professor  
PHD, 1984, Univ Of Kentucky

**Hunt, Stephanie**, Instructor  
MM, 2006, Rice University

**Kerr, Ruth**, Emerita Professor  
Honorary Doctor of Fine Arts, 2000, Southern  
Illinois University Edwardsville

**Kim, Jeong Hyun**, Assistant Professor  
MM, 2009, New England Conserv Of Music

**Knapp, Joel**, Professor  
DMUS, 1991, Univ Of Missouri-Kansas City

**Korak III, John**, Professor  
DMUS, 1999, Univ Of North Texas

**Lord-Castillo, Erika**, Instructor  
MM, 2010, Southern Illinois University Edwardsville

**Loucks, Donald**, Emeritus Professor  
PHD, 1974, Ohio State University

**McCoy-Sulentic, Vera**, Program Director/Clinical  
Instructor  
MM, 1988, Southern Illinois University Edwardsville

**Mellott, George**, Emeritus Professor  
PHD, 1964, Univ of Iowa

**Mishra, Michael**, Chair/Professor  
DMUS, 1997, Univ Of Northern Colorado

**Pembrook, Randall**, Chancellor/Professor  
PHD, 1984, Florida State University

**Perry, Linda**, Emerita Professor  
PHD, 1994, Univ Of Ill-Urbana Champaign

**Rogers, Karen**, Emerita Professor  
MFA, 1974, Univ Of Iowa

**Schapman, Marc**, Associate Professor  
DMUS, 2007, Indiana Univ-Bloomington

**Schieber, Robert**, Emeritus Professor  
MM, 1956, Indiana Univ-Bloomington

**Schmidt, Garrett**, Assistant Professor  
MM, 2011, Eastman School Of Music

**Scott, Janet**, Emerita Professor  
MM, 1976, Washington University

**Seo, Mikaila**, Instructor  
MM, 2012, Roosevelt University

**Simidtchieva, Marta**, Professor  
DMUS, 2005, Florida State University

**Smith, Deborah**, Associate Professor

PHD, 1986, Univ Of Michigan-Ann Arbor

**Smithiger, Daniel**, Instructor  
MM, 2001, Univ Of Arizona

**Stamps, David**, Emeritus Professor  
MM, 1975, Univ Of Miami

**Swagler, Jason**, Associate Professor  
MM, 2000, Southern Illinois University Edwardsville

**Tallant, Audrey**, Emerita Professor  
MFA, 1977, California Instit The Arts

**Truckenbrod, Emily**, Associate Professor  
DMUS, 1998, Univ Of Iowa

**Turner, Sarah**, Emerita Professor  
MA, 1958, Columbia University

**Vandiver, Miles**, Instructor  
MM, 2012, Southern Illinois University Edwardsville

**Wells III, Prince**, Associate Professor  
MM, 1986, New England Conserv Of Music

### **Nursing, School of**

**Baier, Marjorie**, Emerita Associate Professor  
PHD, 1995, Saint Louis University

**Beaman, Margaret**, Emerita Professor  
PHD, 1987, Univ Of Illinois-Chicago

**Bernaix, Laura**, Dean/Professor  
PHD, 1995, Saint Louis University

**Boyd, Mary**, Emerita Professor  
DN, 1986, Indiana Univ-Purdue Indnapols

**Boyd, Rita**, Emerita Associate Professor  
PHD, 2002, Southern Illinois University Carbondale

**Boyer, Gaylyn**, Instructor  
MSN, 1982, Univ Of California-Los Angeles

**Cady, Lois**, Emerita Ast Professor  
MS, 1962, Univ of Colorado at Boulder

**Clarida, Pamela**, Instructor  
MSN, 2017, Wilkes College

**Clement, Jacquelyn**, Emerita Professor

PHD, 1984, Univ Of Texas - Austin

**Collier, Rebecca**, Coordinator/Instructor  
DNP, 2013, Southern Illinois University Edwardsville

**Compton-McBride, Sheri**, Director/Instructor  
MS, 2010, Southern Illinois University Edwardsville

**Creason, Nancy**, Emerita Professor  
PHD, 1977, Univ Of Michigan-Ann Arbor

**Cruz, Virginia**, Emerita Associate Professor  
PHD, 1997, Univ Of Iowa

**De Menezes, Mary**, Emerita Associate Dean  
EDD, 1982, Northern Illinois University

**Ellis, Angela**, Instructor  
MS, 2012, Southern Illinois University Edwardsville

**Ertel, Michelle**, Assistant Director/Instructor  
MS, 2007, Southern Illinois University Edwardsville

**Fearing, Arleen**, Emerita Associate Professor  
EDD, 1995, Illinois State University

**Forni, Patricia**, Emerita Professor  
, ,

**Griffin, Andrew**, Assistant Dean/Associate  
Professor  
PHD, 2010, Univ Of Hawaii-Manoa

**Griffin, Valerie**, Director/Clinical Assistant  
Professor  
DNP, 2013, Maryville Univ Of St Louis

**Hammel, Leah**, Instructor  
MSN, 2012, McKendree University

**Harrison, Roberta**, Associate Dean/Associate  
Professor  
PHD, 2007, Univ Of Missouri-St Louis

**Ketchum, Kathy**, Emerita Associate Professor  
PHD, 2000, Saint Louis University

**Lashley, Felissa**, Emerita Dean  
PHD, 1973, Illinois State University

**Maurer, Marcia**, Emerita Professor  
PHD, 1994, Loyola University Of Chicago

**Mitchell, Sylvia**, Emerita Ast Professor  
MSN, 1972, Saint Louis University

**Nehrt, Jodie**, Instructor  
MS, 2009, Florida State University

**Perez, Albertina**, Chair/Associate Professor  
PHD, 2011, Saint Louis University

**Perry, Gloria**, Emerita Professor  
PHD, 1974, Saint Louis University

**Perry, Sally**, Emerita Professor  
EDD, 1991, Southern Illinois University Edwardsville

**Riley, Marguerite**, Emerita Associate Professor  
PHD, 1992, Saint Louis University

**Roberts, Kimberly**, Instructor  
MSN, 2003, Univ Of Alabama

**Rowbotham, Melodie**, Director/Associate Professor  
PHD, 2007, Univ Of Missouri-St Louis

**Ruddy-Wallace, Mona**, Emerita Associate  
Professor

, ,

**Rumfelt, Janice**, Emerita Ast Professor  
MSN, 1975, Saint Louis University

**Sanders, Sarah**, Instructor  
MS, 2014, Southern Illinois University Edwardsville

**Schmidt, Cynthia**, Emerita Professor  
PHD, 1997, Saint Louis University

**Stein, Kevin**, Director/Assistant Professor  
MSN, 2008, Southern Illinois University  
Edwardsville

**Sykes, Roslyn**, Emerita Professor  
PHD, 1984, Saint Louis University

## **Pharmacy, School of**

**Arnoldi, Jennifer**, Associate Professor, Clinical  
DPHAR, 2006, Midwestern Univ

**Bimpasis, Lisa**, Professor, Clinical  
PHRMD, 2001, St Louis College Of Pharmacy

**Butler, Lakesha**, Professor, Clinical

PHRMD, 2005, Mercer Univ School Of Pharmacy

**Cady, Elizabeth**, Assistant Professor, Clinical  
DPHAR, 2014, Drake University

**Crider, Michael**, Chair/Professor  
PHD, 1975, Univ Of Kentucky

**Deshpande, Maithili**, Assistant Professor  
PHD, 2013, Univ Of Wisconsin-Madison

**Devraj, Radhika**, Associate Professor  
PHD, 1998, Purdue University

**Ferguson, McKenzie**, Associate Professor  
DPHAR, 2006, St Louis College Of Pharmacy

**Frueh, Janice**, Associate Professor, Clinical  
DPHAR, 2007, Creighton University

**Gable, Kelly**, Associate Professor  
PHRMD, 2004, Univ Of Mississippi

**Gattas, Fred**, Assistant Professor, Clinical  
DPHAR, 2001, Univ Of Tennessee

**Gonzalez, Misty**, Associate Professor, Clinical  
DPHAR, 2007, Purdue University

**Gupchup, Gireesh**, Director/Professor  
PHD, 1996, Purdue University

**Hecht, Jingyang**, Assistant Dean/Clinical Associate  
Professor  
DPHAR, 2001, Univ Of Illinois-Chicago

**Hecht, Keith**, Associate Professor  
DPHAR, 2001, St Louis College Of Pharmacy

**Herndon, Christopher**, Professor  
PHRMD, 1998, St Louis College Of Pharmacy

**Hunziker, Stephanie**, Assistant Professor, Clinical  
DPHAR, 2003, St Louis College Of Pharmacy

**Kerr, Jessica**, Associate Dean/Professor  
PHRMD, 2001, St Louis College Of Pharmacy

**Kolling, William**, Associate Professor  
PHD, 1997, Univ Of Iowa

**Kontoyianni, Maria**, Associate Professor  
PHD, 1991, Univ No Carolina-Chapel Hill

**Kwon, Guim**, Professor  
PHD, 1992, Univ Of Michigan-Ann Arbor

**Luer, Mark**, Dean/Professor  
PHRMD, 1990, St Louis College Of Pharmacy

**Lynch, James**, Director/Professor  
PHRMD, 1993, St Louis College Of Pharmacy

**Maynard, Cassandra**, Associate Professor, Clinical  
DPHAR, 2001, St Louis College Of Pharmacy

**McGinley, Julie**, Assistant Professor, Clinical  
DPHAR, 2015, St Louis College Of Pharmacy

**McPherson, Timothy**, Professor  
PHD, 1995, Purdue University

**Neumann, William**, Associate Professor  
PHD, 1988, Univ Of Missouri-St Louis

**Newman, Katherine**, Assistant Professor, Clinical  
DPHAR, 2010, Southern Illinois University  
Edwardsville

**Nieto, Marcelo**, Associate Professor  
PHD, 1999, National Univ

**Poirier, Therese**, Senior Scholar  
PHD, 1979, Univ Of Michigan-Ann Arbor

**Ronald, Katie**, Associate Professor, Clinical  
PHRMD, 2006, St Louis College Of Pharmacy

**Rosselli-Lynch, Jennifer**, Associate Professor,  
Clinical  
DPHAR, 2003, St Louis College Of Pharmacy

**Ruscini, John**, Chair/Professor  
DPHAR, 1993, Univ Of Illinois-Chicago

**Sandoval, Karin**, Associate Professor, Research  
PHD, 2004, Univ Of Arizona

**Santanello, Cathy**, Professor  
PHD, 1990, Saint Louis University

**Schober, Joseph**, Associate Professor  
PHD, 2003, Univ Of Illinois-Chicago

**Sheley, Jared**, Assistant Professor, Clinical  
PHRMD, 2012, Southern Illinois University  
Edwardsville

**Siganga, Walter**, Professor  
PHD, 1992, Univ Of Maryland At Baltimore

**Vogler, Carrie**, Associate Professor, Clinical  
DPHAR, 2007, Midwestern Univ

**Wilhelm, Miranda**, Associate Professor, Clinical  
DPHAR, 2002, Univ Of Kansas

**Witt, Kenneth**, Professor  
PHD, 2001, Univ Of Arizona

**Wooley, Andrea**, Associate Professor, Clinical  
DPHAR, 2011, St Louis College Of Pharmacy

**Worthington, Ronald**, Professor  
PHD, 1982, Washington University

## Philosophy

**Barker, John**, Emeritus Professor  
PHD, 1967, Tulane Univ Of Louisiana

**Cashen, Matthew**, Associate Professor  
PHD, 2007, Washington University

**Catalano, Michelle**, Instructor  
MBA, 2005, Southern Illinois University  
Edwardsville

**Cataldi, Suzanne**, Emerita Professor  
PHD, 1991, Rutgers St U Nj-New Brunswick

**Corr, Charles**, Emeritus Professor  
PHD, 1966, Saint Louis University

**Crane, Judith**, Chair/Professor  
PHD, 1999, Tulane Univ Of Louisiana

**Danley, John**, Emeritus Professor  
PHD, 1977, Univ Of Rochester

**Darr, Raymond**, Instructor  
MA, 1984, Southern Illinois University Edwardsville

**Dieleman, Susan**, Assistant Professor  
PHD, 2011, York University

**Fatima, Saba**, Associate Professor  
PHD, 2012, St Univ Of Ny Col-Binghamton

**Fields, Gregory**, Professor, Distng Research  
PHD, 1994, Univ Of Hawaii-Manoa

**Fry, Richard**, Assistant Professor  
PHD, 2013, Georgetown University

**Glossop, Ronald**, Emeritus Professor  
PHD, 1960, Washington University

**Hamrick, William**, Emeritus Professor  
PHD, 1971, Vanderbilt University

**Keene, Carol**, Emerita Professor  
PHD, 1969, Saint Louis University

**Kim, Sang-Ki**, Emeritus Professor  
PHD, 1973, State Univ Of New York-Buffalo

**Krag, Erik**, Assistant Professor  
PHD, 2012, Univ Of Tennessee

**Larkin III, William**, Associate Professor  
PHD, 1998, Univ California-Santa Barba

**Linden, George**, Emeritus Professor  
PHD, 1956, Univ Of Ill-Urbana Champaign

**Littmann, Gregory**, Associate Professor  
PHD, 2004, Univ No Carolina-Chapel Hill

**Lueck, Bryan**, Associate Professor  
PHD, 2007, Penn State-Univ Park Campus

**Meade, Erik**, Instructor  
MA, 2001, Southern Illinois University Carbondale

**Nabe, Clyde**, Emeritus Professor  
PHD, 1975, Purdue University

**Paxson, Thomas**, Emeritus Professor  
PHD, 1970, Univ Of Rochester

**Pearson, Christopher**, Associate Professor  
PHD, 2007, Univ Of Washington

**Reiheld, Alison**, Associate Professor  
PHD, 2010, Michigan State University

**Runkle, Gerald**, Emeritus Professor  
PHD, 1951, Yale University

**Ruth, Sheila**, Emerita Professor  
PHD, 1969, State Univ Of New York-Buffalo

**Schallert, Edward**, Instructor  
MA, 1990, Southern Illinois University Edwardsville

**Schunke, Matthew**, Associate Professor  
PHD, 2009, Rice University

**Simons, Margaret**, Emerita Distinguished Res Prof  
PHD, 1977, Purdue University

**Vailati, Ezio**, Emeritus Professor  
PHD, 1985, Univ Of California-San Diego

**Ware, Robert**, Professor  
PHD, 1995, Univ Of Oxford

**Wolf, Robert**, Emeritus Professor  
PHD, 1970, Saint Louis University

## Physics

**Ackad, Edward**, Associate Professor  
PHD, 2008, York University

**Braundmeier, A.**, Emeritus Professor  
PHD, 1970, Univ Of Tennessee

**Foster, Thomas**, Professor  
PHD, 2000, Univ Of Minnesota-Twin Cities

**Garcia, Hernando**, Associate Professor  
PHD, 2000, New Jersey Inst Of Technology

**Glassman, Jack**, Chair/Associate Professor  
PHD, 1997, Univ Of New Mexico

**Hamad, Abdullatif**, Professor  
PHD, 1996, Oklahoma State University

**Henderson, George**, Emeritus Professor  
PHD, 1970, Georgetown University

**Hill, Roger**, Emeritus Professor  
PHD, 1969, California Inst Of Technology

**Kaplan, David**, Associate Professor  
PHD, 1983, Cornell University

**Patty, Mark**, Instructor  
PHD, 2009, Univ Of Missouri-Columbia

**Sabby, Jeffrey**, Associate Professor  
PHD, 2004, Univ Of Arkansas

**Swamy, Padmanabha**, Emeritus Professor  
PHD, 1963, Univ Of Delhi

**Vardanyan, Karen**, Associate Professor  
PHD, 2000, Armenian St Polytechnic Univ

**Williams, Catherine**, Instructor  
MS, 1999, Miami University

**Yousef, Mohammad**, Associate Professor  
PHD, 2002, Florida State University

## Political Science

**Degarmo, Denise**, Emerita Professor  
PHD, 2001, Univ Of Michigan-Ann Arbor

**Farrell, John**, Emeritus Associate Professor  
PHD, 1975, Univ Of Iowa

**Feeney, William**, Emeritus Professor  
PHD, 1970, Johns Hopkins University, The

**Guehlstorf, Nicholas**, Professor  
PHD, 2002, Purdue University

**Kalinowski, Timothy**, Instructor  
JD, 1992, Univ Of Houston

**Lewis, Timothy**, Assistant Professor  
PHD, 2017, Saint Louis University

**McCabe, Don**, Emeritus Associate Professor  
PHD, 1964, Univ Of Idaho

**Moffett, Kenneth**, Chair/Professor  
PHD, 2006, Univ Of Iowa

**Rice, Laurie**, Professor  
PHD, 2005, Univ Of California-San Diego

**Schwartz, David**, Emeritus Associate Professor  
PHD, 1975, Penn State Univ-Main Campus

**Stahnke, Arthur**, Emeritus Professor  
PHD, 1966, Univ Of Iowa

**Theising, Andrew**, Professor  
PHD, 1997, Univ Of Missouri-St Louis

**Weeraratne, Suranjan**, Associate Professor  
PHD, 2009, McGill University

**Wilson, Sophia**, Assistant Professor  
PHD, 2011, Univ Of Washington

## Primary Care and Health Systems Nursing

**Ampadu, Jerrica**, Assistant Professor  
PHD, 2015, Univ Of Hawaii-Manoa

**Andrews, Angela**, Assistant Professor  
MS, 2012, Southern Illinois University Edwardsville

**Basarich, Kerry**, Instructor  
MS, 2017, Southern Illinois University Edwardsville

**Beatty Bachmann, Michele**, Instructor  
MS, 2007, Southern Illinois University Edwardsville

**Blake, Danielle**, Instructor  
MS, 2017, Chamberlain College of Nursing

**Comrie, Rhonda**, Emerita Associate Professor  
PHD, 2005, Southern Illinois University Carbondale

**Cooley, Tracy**, Instructor  
MS, 2013, Southern Illinois University Edwardsville

**Durbin, Christine**, Chair/Associate Professor  
PHD, 2007, Univ Of Missouri-St Louis

**Frazier, Mary**, Instructor  
MS, 2017, Southern Illinois University Edwardsville

**Gaehle, Kay**, Associate Professor  
DN, 2004, Saint Louis University

**Gopalan, Chaya**, Associate Professor  
PHD, 1988, University Of Glasgow

**Harmon, Elise**, Instructor  
MSN, 2011, MacMurray College

**Hochreiter, Wendy**, Instructor  
DNP, 2018, Univ Of Iowa

**Howland, Chelsea**, Instructor  
MS, 2014, Southern Illinois University Edwardsville

**Jenkins, Debra**, Assistant Professor  
PHD, 2014, Illinois State University

**Luebbert, Rebecca**, Director/Associate Professor  
PHD, 2010, Saint Louis University

**Lyerla, Frank**, Director/Associate Professor  
PHD, 2007, Saint Louis University

**McGuire, Kelley**, Instructor  
MS, 2013, Southern Illinois University Edwardsville

**Metz, Diane**, Instructor  
MS, 2017, Southern Illinois University Edwardsville

**Nicholson, Heather**, Instructor  
MSN, 2007, McKendree University

**Oates, Cindy**, Instructor  
MS, 2013, Southern Illinois University Edwardsville

**Owen, Rachel**, Instructor  
MS, 2015, Southern Illinois University Edwardsville

**Popkess, Ann**, Assistant Dean/Associate Professor  
PHD, 2010, Indiana University System

**Ross, Amanda**, Instructor  
MS, 2016, Southern Illinois University Edwardsville

**Skelton, Stacy**, Instructor  
MSN, 2002, Univ Of Missouri-St Louis

**Stonecypher, Taylor**, Instructor  
MS, 2015, Southern Illinois University Edwardsville

**Yancey, Valerie**, Associate Professor  
PHD, 1998, Saint Louis University

## Psychology

**Adams, Stacey**, Instructor  
MS, 2004, Southern Illinois University Edwardsville

**Bartels, Lynn**, Professor  
PHD, 1991, Univ Of Akron

**Conoyer, Sarah**, Assistant Professor  
PHD, 2013, Univ Of Missouri-Columbia

**Daus, Catherine**, Professor  
PHD, 1994, Purdue University

**Engbretson, Robert**, Emeritus Professor  
PHD, 1964, Michigan State University

**Everett, Gregory**, Chair/Professor  
PHD, 2005, Univ Of Southern Mississippi

**Ferguson, Eva**, Professor  
PHD, 1956, Northwestern University

**Hupp, Stephen**, Professor  
PHD, 2002, Louisiana St Univ/A&M-Baton Rg

**Jewell, Jeremy**, Professor  
PHD, 2001, Univ Of Texas - Austin

**Kleinman, Kenneth**, Emeritus Professor  
PHD, 1967, Washington University

**Lamp, Robert**, Emeritus Professor  
PHD, 1966, Washington University

**McKenney, Elizabeth**, Associate Professor  
PHD, 2010, Univ Of Florida

**Meeks, Joseph**, Associate Professor  
PHD, 2009, Univ Of Georgia

**Meinz, Elizabeth**, Professor  
PHD, 1998, Georgia Instit Tech

**Murphy, Jason**, Instructor  
PHD, 2013, Saint Louis University

**Nadler, Joel**, Associate Professor  
PHD, 2010, Southern Illinois University Carbondale

**Pawlow, Laura**, Professor  
PHD, 2002, Univ Of Southern Mississippi

**Pettibone, Jonathan**, Professor  
PHD, 2000, Univ South Carolina-Columbia

**Pomerantz, Andrew**, Professor  
PHD, 1996, Saint Louis University

**Reuterman, Nicholas**, Emeritus Professor  
PHD, 1968, Univ Colorado Boulder

**Ro, Eunyoe**, Assistant Professor  
PHD, 2010, Univ Of Iowa

**Rose, Paul**, Dean/Professor  
PHD, 2003, St Univ Of Ny Coll At Buffalo

**Rosnick, Christopher**, Associate Professor  
PHD, 2005, Univ Of South Florida

**Russo, Joseph**, Emeritus Professor  
EDD, 1963, Penn State-Univ Park Campus

**Segrist, Dan**, Associate Professor  
PHD, 2000, Southern Illinois University Carbondale



**Shimizu, Mitsuru**, Assistant Professor  
PHD, 2009, State Univ Of New York-Buffalo

**Traxler, Anthony**, Emeritus Professor  
PHD, 1969, Penn State Univ-Main Campus

**Voyles, Elora**, Assistant Professor  
MA, 2016, Northern Illinois University

### **Public Administration and Policy Analysis**

**Bender, Lewis**, Emeritus Professor  
PHD, 1977, Univ Of Georgia

**Bush, Richard**, Emeritus Professor  
PHD, 1983, Univ Of Ill-Urbana Champaign

**Cruz, Minerva**, Assistant Professor  
PHD, 2008, Purdue University

**Dolan, Drew**, Professor  
PHD, 1988, Northern Illinois University

**Donnelly, Brian**, Emeritus Associate Professor  
PHD, 1978, Univ Of Georgia

**Foster, John**, Assistant Professor  
PHD, 2012, Univ Of Kentucky

**Huyck, Nancy**, Associate Professor  
PHD, 2012, Univ Of Illinois- Springfield

**Pietroburgo, Julie**, Emerita Professor  
PHD, 2002, Saint Louis University

**Taylor Jr., Morris**, Chair/Associate Professor  
PHD, 2000, Saint Louis University

### **Social Work**

**Aspholm, Roberto**, Assistant Professor  
PHD, 2016, Univ Of Illinois-Chicago

**Brown, Venessa**, Associate Chancellor/Professor  
PHD, 1994, Clark Atlanta University

**Carter, Kimberly**, Assistant Professor  
PHD, 2010, Washington University

**Duckham, Bryan**, Associate Professor  
PHD, 2007, Loyola University Of Chicago

**Ham, Angelia**, Instructor

MSW, 2003, Missouri State University

**Markowitz, Linda**, Chair/Professor  
PHD, 1995, Univ Of Arizona

**O'Brien, Gerald**, Professor  
PHD, 1997, Univ Of Ill-Urbana Champaign

**Plocher, Mary**, Instructor  
MSW, 1979, Aurora University

**Schreiber, Jill**, Assistant Professor  
PHD, 2013, Univ Of Ill-Urbana Champaign

**Swanke, Jayme**, Associate Professor  
PHD, 2009, Southern Illinois University Carbondale

**Tunney, Kathleen**, Emerita Associate Professor  
PHD, 1999, Univ Of Illinois-Chicago

**Wesley, Carol**, Practicum Director/Assistant  
Professor  
PHD, 1987, Saint Louis University

### **Sociology and Criminal Justice**

**Barlow, Hugh**, Emeritus Professor  
PHD, 1973, Univ Of Texas - Austin

**Blain, Robert**, Emeritus Professor  
PHD, 1967, Univ Of Massachusetts-Amherst

**Cannon, Kevin**, Associate Professor  
PHD, 2001, Univ Of Nebraska At Omaha

**Cobb, Denise**, Provost and Vice  
Chancellor/Professor  
PHD, 2003, Tulane Univ Of Louisiana

**Cousert, Rachel**, Instructor  
MS, 2006, Univ Of Cincinnati

**Dirks-Linhorst, P.**, Professor  
PHD, 2003, Univ Of Missouri-Kansas City

**Farley, John**, Emeritus Professor  
PHD, 1977, Univ Of Michigan-Ann Arbor

**Finkelstein, Marvin**, Emeritus Professor  
PHD, 1984, Michigan State University

**Frey-Spurlock, Connie**, Associate Professor  
PHD, 2007, Univ Of Nebraska At Lincoln

**Gorislavsky, Ekaterina**, Assistant Professor  
PHD, 2014, Univ Of Missouri-St Louis

**Hedley, Mark**, Associate Professor  
PHD, 1994, Univ Of Arizona

**Heil, Erin**, Associate Professor  
PHD, 2008, Univ Of Illinois-Chicago

**Henslin, James**, Emeritus Professor  
PHD, 1967, Washington University

**Maatita, Florence**, Associate Professor  
PHD, 2003, Univ Of Connecticut

**Mares, Dennis**, Associate Professor  
PHD, 2004, Univ Of Missouri-St Louis

**Markowitz, Linda**, Chair/Professor  
PHD, 1995, Univ Of Arizona

**Martino-Taylor, Lisa**, Assistant Professor  
PHD, 2011, Univ Of Missouri-Columbia

**Oberweis, Tricia**, Professor  
PHD, 1999, Arizona State University

**Petrocelli, Matthew**, Professor  
PHD, 1997, Arizona State University

**Riley, Lawrence**, Emeritus Associate Professor  
PHD, 1971, Ohio State University

**Schmidgall, Darci**, Instructor  
MS, 2013, Southern Illinois University Edwardsville

**Stygar, Elizabeth**, Instructor  
MA, 2008, Southern Illinois University Edwardsville

**Swaine, Richard**, Emeritus Professor  
PHD, 1971, Washington University

**Temko, Ezra**, Instructor  
MPA, 2009, Univ Of Delaware

**Weissinger, Sandra**, Associate Professor  
PHD, 2010, Univ Of Ill-Urbana Champaign

## Teaching and Learning

**Baden, Donald**, Emeritus Professor  
EDD, 1973, Univ Of Houston

**Beavers, Vickie**, Instructor  
MSED, 2011, Eastern Illinois University

**Breck, Susan**, Chair/Professor  
PHD, 1994, Univ Of Kansas

**Brimer, Richard**, Emeritus Associate Professor  
PHD, 1978, Univ Of Missouri-Columbia

**Bushrow, Kathy**, Professor  
PHD, 1996, Univ Of Texas - Austin

**Cummings, Liza**, Assistant Professor  
PHD, 2011, Univ Of Missouri-Columbia

**Denkyirah, Anthony**, Associate Professor  
PHD, 2003, Southern Illinois University Carbondale

**Detoye, Lela**, Emerita Associate Dean  
EDD, 1989, Southern Illinois University Edwardsville

**Deweese, David**, Emeritus Associate Professor  
EDD, 1994, East Tennessee St Univ

**Forbringer, Linda**, Professor  
PHD, 2003, Saint Louis University

**Fuchs, Wendy**, Associate Professor  
PHD, 2008, Southern Illinois University Carbondale

**Havis, Barbara**, Emerita Ast Professor  
MEDUC, 1966, Univ Of Missouri-Columbia

**Hernandez, Jennifer**, Assistant Professor  
EDD, 2013, Univ Of Missouri-St Louis

**Hill, Danielle**, Instructor  
MA, 2002, Loyola University Of Chicago

**James, Susanne**, Associate Professor  
PHD, 2011, Univ Of Kansas

**Jewett, Thomas**, Emeritus Associate Professor  
PHD, 1985, Saint Louis University

**Johnson, Brian**, Assistant Professor  
PHD, 1995, Emory University

**Keefe, Donald**, Emeritus Professor  
PHD, 1975, Univ Of Ill-Urbana Champaign

**Kirk, Stacie**, Associate Professor  
PHD, 2006, Univ Of Kansas

**Krim, Jessica**, Associate Professor  
PHD, 2009, Montana State University

**Latorre, Martha**, Professor  
PHD, 1999, Univ Of Alabama

**Lessen, Elliott**, Emeritus Professor  
PHD, 1977, Univ Of Florida

**Locke, Sharon**, Director/Associate Professor  
PHD, 1995, Univ Of Minnesota-Twin Cities

**Long, Ruby**, Emerita Professor  
EDD, 1967, Univ Of Missouri-Columbia

**Marlette, Stephen**, Professor  
PHD, 2002, Kansas State University

**Marsh, Sarah**, Instructor  
MSED, 2008, Southern Illinois University  
Carbondale

**Martin, Barbara**, Assistant Professor  
EDD, 2016, Illinois State University

**Masterson, Mary**, Instructor  
MSED, 1986, Southern Illinois University  
Edwardsville

**McAndrews, Stephanie**, Professor  
PHD, 1998, Univ Of Arizona

**Miner, Craig**, Professor  
PHD, 1994, Southern Illinois University Carbondale

**Msengi, Shadrack**, Associate Professor  
EDD, 2006, Univ Of Northern Iowa

**Nall, Susan**, Emerita Professor  
PHD, 1975, Saint Louis University

**O'Donnell, Barbara**, Professor  
EDD, 1999, Univ Of North Dakota

**Pryor, Caroline**, Professor  
EDD, 1990, Arizona State University

**Reading, Gloria**, Emerita Associate Professor  
EDD, 1999, Southern Illinois University Edwardsville

**Reinking, Anna**, Assistant Professor  
EDD, 2015, Illinois State University

**Rockwell, Robert**, Emeritus Professor  
PHD, 1972, Saint Louis University

**Searcy, Leroy**, Emeritus Associate Professor  
EDD, 1984, Univ Of Missouri-Columbia

**Sherwood, Elizabeth**, Professor  
PHD, 2004, Illinois State University

**Stein, James**, Emeritus Associate Professor  
PHD, 1973, Saint Louis University

**Walls, Tammy**, Instructor  
MSED, 2015, Southern Illinois University  
Edwardsville

**Weishaar, Mary**, Executive Director/Professor  
PHD, 1984, Saint Louis University

**Weishaar, Phillip**, Associate Professor  
PHD, 1984, Saint Louis University

**Whiteside, William**, Emeritus Professor  
PHD, 1969, Southern Illinois University Carbondale

**Wiemers, Elizabeth**, Instructor  
MS, 2002, Southern Illinois University Edwardsville

**Williams, Robert**, Emeritus Professor  
PHD, 1975, Georgia State University

**Winnett, David**, Emeritus Professor  
EDD, 1988, Southern Illinois University Edwardsville

## Theater and Dance

**Beals, Paula**, Emerita Instructor  
MA, 1970, Teachers Coll, Columbia Univ

**Bentley, Kathryn**, Associate Professor  
MFA, 2006, Lindenwood University

**Best-Kinscherff, Kristin**, Assistant Professor  
MFA, 2006, Univ Of Iowa

**Bozark, Kim**, Instructor  
MA, 2006, Webster University

**Cocuzza, Peter**, Professor  
MFA, 1986, Ohio University

**Grivna, William**, Emeritus Professor  
MFA, 1978, Univ Of Minnesota-Twin Cities

**Hanson, Laura**, Professor  
PHD, 2001, New York University

**Harper, Charles**, Chair/Professor  
MFA, 1997, Univ Of Washington

**Hockenberry, Kevin**, Assistant Professor  
MFA, 2017, St Marys College Of California

**Jarrell, James**, Emeritus Professor  
MFA, 1980, Univ Of Oklahoma

**Mackie, Wade**, Emeritus Associate Professor  
PHD, 1972, Indiana Univ-Bloomington

**Olivas, Omar**, Instructor  
MS, 2015, Southern Illinois University Edwardsville

**Reed, Nina**, Instructor  
BFA, 1989, Webster University

**Schmitz, Johanna**, Professor  
PHD, 2001, Univ Of California-Davis

**Shaul, Kerry**, Emeritus Associate Professor

MFA, 1973, Southern Methodist University

**Sill, David**, Emeritus Professor  
MFA, 1979, Michigan State University

**Speidel, Roger**, Instructor  
MFA, 2000, Univ Of South Dakota

**Sweezey, Charles**, Emeritus Professor  
MFA, 1974, Brandeis University

**Vilhauer, William**, Emeritus Professor  
PHD, 1965, Univ of Iowa

**Wulfsong, James**, Associate Professor  
MFA, 1998, Univ Of Minnesota-Twin Cities

### **University Services to East St. Louis**

**Fernando, Rex**, Emeritus Associate Professor  
PHD, 1976, Saint Louis University

**Krishnan, Kuppana**, Emeritus Associate  
Professor  
PHD, 1978, Saint Louis University

## College of Arts and Sciences

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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.

**Life-Long 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, Environmental Sciences, Foreign Languages and Literature, 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.

The College also offers degrees in Economics, International Studies, and Liberal Studies and interdisciplinary minors in African Studies, Asian Studies, Black Studies, Classical Studies, Digital Humanities and Social Sciences, Environmental Sciences, European Studies, Forensic Sciences, Latin American Studies, Native American Studies,

Peace and International Studies, Pre-Law, Religious Studies, Urban Studies, and Women's Studies.

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/>

## School of Business

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### 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

Consistent with the University, the primary focus of the School of Business long-term goals is student learning. Achieving the following goals will help students become lifelong learners and effective leaders in their professions and communities:

#### 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
- Diversity and the value that individual differences can bring to a team and organization

#### Skills

##### *Interpersonal Skills*

Undergraduate students should demonstrate the ability to interact effectively in a professional environment through

- Creating and delivering information using effective written and oral presentation skills
- Working effectively in a group to accomplish stated goals

## *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.

**Approved April 18, 2013.**

## **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 exchange 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.

### **Experiential Education - Internships and Cooperative Education Program**

The School of Business encourages students to include Experiential Education while completing their academic program by participating in an Internship or the Cooperative Education Program. Students may earn academic credit for internships or have the participation noted on their academic transcripts through a non-credit bearing course (see GBA 398). The Internship Coordinator in Business Student Services coordinates credit bearing internships associated with academic programs and business courses. The Career Development Center coordinates non-credit bearing business internships associated with GBA 398. For the Cooperative Education Program, registration and enrollment in a University-sponsored cooperative education course through the Career Development Center (see GBA 399) is required.

## School of Education, Health and Human Behavior

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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](http://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.

## 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](http://www.abet.org). The bachelor of science program in computer science is accredited by the Computing Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). The construction management program is accredited by the American Council for Construction Education, [www.acce-hq.org](http://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.

## School of Nursing

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### Program Description and General Department Information

The School of Nursing prepares future nursing leaders who reflect the fundamental values of SIUE. The school offers a bachelor's degree with a major in nursing for non-nurses with or without a previous college degree, and for registered nurses with associate degrees or diplomas in nursing. The program prepares a generalist in professional nursing, and prelicensure graduates are eligible to take the NCLEX-RN examination for licensure as a registered nurse.

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.

## School of Pharmacy

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### 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

## **School of Dental Medicine**

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School of Dental Medicine students manage approximately 35,000 patient visits each year at the School's patient clinics in Alton and East St. Louis. In addition, students offer oral health treatment, screenings and education to more than 10,000

people annually through a wide variety of off-campus community outreach events. These opportunities provide students the training they need to graduate and become highly skilled dentists. The School of Dental Medicine is a vital oral health care provider for residents of Southern and Central Illinois, and the St. Louis metropolitan region.

## Graduate School

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](http://siue.edu/graduate-admissions).

### Master of Arts

Applied Communication Studies/Health Communication  
Applied Communication Studies/Interpersonal Communication  
Applied Communication Studies/Organizational Communication  
Applied Communication Studies/Public Relations  
Art Therapy Counseling  
Biological Sciences  
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/Business Analytics  
Business Administration/Management  
Business Administration/Management Information Systems  
Business Administration/Project Management

### Master of Fine Arts

Art Studio  
Creative Writing

### Master of Marketing Research

Marketing Research  
Marketing Research/Business Analytics

### Master of Music

Music/Music Education  
Music/Music Performance

### Master of Public Administration

### Master of Science

Biological Sciences  
Chemistry  
Criminal Justice Policy  
Civil Engineering/Environmental Engineering/Water Resources  
Civil Engineering/Geotechnical Engineering  
Civil Engineering/Structural Engineering  
Civil Engineering/Transportation Engineering  
Computer Management and Information Systems  
Computer Management and Information Systems/Business Analytics  
Computer Management and Information Systems/Project Management  
Computer Science  
Electrical Engineering  
Environmental Sciences  
Geography  
Healthcare Informatics  
Industrial Engineering  
Integrative Studies

- Options available:
  - Cultural Heritage and Resources Management
  - Engineering Management
  - GIS Development and Database Administration
  - Marketing Communications
  - Media Management
  - Organizational Design Thinking
  - Sustainability

Kinesiology-Exercise and Sport Psychology  
Kinesiology - Exercise Physiology  
Mathematics/Computational and Applied Mathematics  
Mathematics/Postsecondary Mathematics Education  
Mathematics/Pure Mathematics  
Mathematics/Statistics and Operations Research  
Mechanical Engineering

Media Studies  
Nursing/Health Care and Nursing Administration  
Nursing/Nurse Educator  
Nutrition and Dietetics  
Pharmaceutical Sciences  
Psychology/Clinical Child and School Psychology  
Speech-Language Pathology

### **Master of Science in Accountancy**

Accountancy  
Accountancy/Business Analytics  
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

Diversity and Equity in Education  
Educational Administration  
Instructional Technology  
Kinesiology - Physical Education and Coaching  
Pedagogy  
Literacy Education  
Special Education

### **Master of Social Work**

Social Work  
Social Work/School Social Work

### **Professional Science Master's**

Environmental Science Management

### **Education Specialist**

Educational Administration

### **Specialist Degree**

School Psychology

### **Post-Master's Certificates**

Health Care and Nursing Administration  
Literacy Specialist  
Nurse Educator  
Special Education

### **Post-Baccalaureate Certificates**

English/Literature  
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:
  - Environmental Management
  - 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 Education/Educational Leadership  
Doctor of Nursing Practice/Family Nurse  
Practitioner  
Doctor of Nursing Practice/Nurse Anesthesia

### **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](http://www.siue.edu/financialaid/certificate-programs2014.shtml)

## Course Descriptions

### 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. The 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 & 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

**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.

For additional resources on general education requirements, please visit:



## Accounting (ACCT)

### ACCT 200 - Fundamentals of Financial Acct - 3 FMS

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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. Prerequisite: ECON 112 with a minimum grade of D or concurrent enrollment.

**Prerequisites:** Undergraduate level ECON 112  
Minimum Grade of D (concurrency allowed)

### ACCT 210 - Managerial Accounting - 3 FMS

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Information accumulation, analysis, and use in 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 in the Bachelor of Science in Accountancy.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of C AND Undergraduate level MS 251 Minimum Grade of C

### ACCT 301 - Intrm Acct Theory & Practice I - 3 FMS

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Financial accounting concepts and procedures; and measurement and reporting methods with respect to assets, liabilities, owners' equity, revenues and expenses, authoritative pronouncements. Accounting, CMIS, Economics or Finance, Business Administration majors only.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Sophomore, Senior

### ACCT 302 - Intrm Acct Theor & Practice II - 3 FMS

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Continuation of ACCT 301. Selected complex accounting issues from a theoretical and practical viewpoint: pensions, leases, tax allocation, changing prices, other reporting and disclosure issues. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 301  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy

### ACCT 303 - Intrm Acct Theory & Pract III - 3 FS

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Continuation of ACCT 302. Emphasis of conceptual understanding and the ability to apply financial accounting concepts to practice. Topics include the statement of cash flows and accounting for leases, pensions, deferred taxes. Prerequisites: Good standing in Accountancy Program. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 302  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### ACCT 311 - Managerial & Cost Acct I - 3 FS

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Costs for financial accounting and managerial decision making in changing competitive, service, and manufacturing environments; behavioral, quantitative, and computer applications; extensive communication and analytical skills development. Business majors only.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of B AND Undergraduate level MS 251 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Sophomore, Senior

### ACCT 312 - Managerial and Cost Acct II - 3 FS

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Short-and-long term decision making and operational control in changing competitive, service, and manufacturing environments; behavioral,

quantitative, and computer applications; continuation of communication and analytical skills development. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 311  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ACCT 315 - Accounting Systems - 3** FS

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Accounting systems, concepts, design, information needs and flows; special emphasis on internal control. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ACCT 321 - Introduction to Taxation - 3** FMS

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Survey of federal tax laws applicable to individuals, corporations, estates, and trusts. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 301  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy

### **ACCT 340 - Bus Law for Accountants - 3** FS

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Accounting and auditing implications of legal issues. Includes securities laws and uniform commercial code areas of sales; commercial paper; secured transactions; partnerships; corporations; agency; and bankruptcy. Business majors only.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, Business Administration, Business Economics, Business Economics and Finance, Computer Management and Info Sys, Economics and Finance, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ACCT 401 - Advanced Financial Acct - 3** FMS

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Accounting principles and procedures related to special entities, including: governmental units, partnerships, and multi-corporate entities; and foreign transactions. Primary emphasis on business combinations and consolidated financial statements. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 302  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy

### **ACCT 421 - Advanced Taxation - Individual - 3** S

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U.S. federal taxes for individuals. Includes compliance, tax research and tax planning strategies for individual taxpayers.

**Prerequisites:** Undergraduate level ACCT 321  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy

### **ACCT 431 - Principles of Auditing - 3** MS

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Auditor's decision process; understanding client's business; development of working papers, audit tests, statistical sampling applications, and EDP systems; preparation of audit report and current pronouncements. Prerequisites: Good standing in Accountancy Program. Accounting majors only.

**Prerequisites:** Undergraduate level ACCT 302  
Minimum Grade of D AND Undergraduate level ACCT 315 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, May not be enrolled as the following Classifications: Junior, Sophomore

### **ACCT 490 - Independent Study in Acct - 1 to 6**

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Topical areas in greater depth than regularly titled courses permit; individual or small group readings or research projects. May be repeated up to a maximum of 6 hours provided no topic is repeated. Requires consent of Instructor and Department Chairperson; and good standing in Accountancy Program. Accounting majors only.

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy

## Applied Communication Studies (ACS)

### ACS 101 - Public Speaking - 3 FS

Theories; strategies; techniques for researching, organizing, outlining, and delivering speeches. Emphasis on speaking skills in professional and academic contexts.

**Attributes:** FSPC, SKOC

### ACS 103 - Interpersonal Comm Skills - 3 FMS

Principles and practices of oral communication emphasizing message formation and delivery; listening; perception; awareness of verbal and nonverbal codes; and managing conflict. [Skills, IGR]

**Attributes:** BICS, EUSC, IGR, SKOC

### ACS 200 - Advanced Public Speaking - 3 FS

Developing and delivering speeches, presentations, and briefings in corporate and professional settings. Models and strategies for technical presentations and group and business meetings. [Dist. FAH]  
Prerequisite: ACS 101 (formerly SPC 101) or consent of instructor.

**Attributes:** BICS, DFAH, HUM, SKOC

**Prerequisites:** Undergraduate level SPC 101  
Minimum Grade of D OR Undergraduate level SPC 105  
Minimum Grade of D OR Undergraduate level ACS 101  
Minimum Grade of D

### ACS 201 - Small Group Communication - 3 FS

Principles, theories, models, methods of group formation, discussion, and decision making. Current problems used as focus for exploring group behavior. [Dist. FAH]

**Attributes:** BSS, DFAH

### ACS 203 - Intro to Orgnization Comm - 3 FMS

Principles, theories, and organizational skills necessary to function effectively as professionals. Topics include: motivation, goal setting, feedback, delegating, and resolving conflicts.

**Attributes:** BICS, DFAH, HUM

### ACS 204 - Oral Argumentation - 3 S

Theories; strategies; techniques for researching, analyzing, constructing, and presenting oral arguments for and against selected contemporary topics and issues. Emphasis on in-class presentations.

**Attributes:** BICS, DFAH, HUM

### ACS 210 - Interracial Communication - 3

Personal dimensions of intergroup communication, especially the interaction of black and white Americans. [Dist. FAH, IGR]

**Attributes:** BSS, DFAH, EUSC, IGR

### ACS 213 - Introduction Public Relations - 3 FMS

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. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

### ACS 261 - Oral Interpretation of Lit - 3 F

Principles and skills in selecting, editing and presenting literature in an oral reading format. Prerequisite: ACS 204 (formerly SPC 204), or ACS 101 (formerly SPC 101), or consent of instructor.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level SPC 101  
Minimum Grade of D OR Undergraduate level SPC 105  
Minimum Grade of D OR Undergraduate level SPC 204  
Minimum Grade of D OR Undergraduate level ACS 101  
Minimum Grade of D OR Undergraduate level ACS 204  
Minimum Grade of D

### ACS 300 - Communication in Interviewing - 3 FMS

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.

**Attributes:** BICS, DFAH, HUM

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**ACS 303 - Communication Training - 3** <sup>S</sup>

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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.

**Attributes:** BICS, DFAH

**Prerequisites:** Undergraduate level ACS 203  
Minimum Grade of D OR Undergraduate level SPC 203 Minimum Grade of D

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**ACS 304 - Conflict and Communication - 3** <sup>FS</sup>

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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.

**Attributes:** BICS, DFAH

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**ACS 305 - Listening - 3**

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Examination of process of experiencing meaning in messages. Opportunity to diagnose personal listening skills; learn relevant theory and models; and practice effective listening styles. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

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**ACS 309 - Ind Projects in Applied Comm - 1 to 6**

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Projects in communication field studies, independent readings, presentations, etc. Specific assignment to be developed by student in consultation with speech communication faculty member prior to enrollment. Credits variable; may be repeated up to a maximum of 6 hours cumulative, three (3) of which may count toward a speech communication major. Requires consent of department chair or program director.

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**ACS 311 - Intercultural Communication - 3** <sup>MS</sup>

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This course examines the processes, assumptions and barriers in intercultural encounters. Theories of

cognition and communication will be explored.

**Attributes:** BSS, DFAH, EGC, EUSC, IGR

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**ACS 312 - Public Relations Theory & Appl - 3** <sup>SaF</sup>

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Advanced study of PR theories and practices introduced in the introduction to public relations course (ACS 213/SPC 213). Focus on approaches proposed by researchers and applied by practitioners, and implications of such approaches.

**Attributes:** BICS, DSS

**Prerequisites:** Undergraduate level SPC 213  
Minimum Grade of D OR Undergraduate level ACS 213 Minimum Grade of D

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**ACS 313 - Public Relations Writing - 3** <sup>FS</sup>

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Advanced study & application of practices introduced in ACS 213 (formerly SPC 213). Emphasis on developing communication materials for PR campaigns. [Dist. FAH] Prerequisite: ACS 213 (formerly SPC 213), concurrent enrollment in ACS 315 (formerly SPC 315).

**Attributes:** BICS, DFAH, DSS, HUM

**Prerequisites:** Undergraduate level SPC 213  
Minimum Grade of C OR Undergraduate level ACS 213 Minimum Grade of C  
**Corequisites:** ACS315

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**ACS 315 - Technology Applications in PR - 3** <sup>FS</sup>

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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. [Dist. FAH] Prerequisite: ACS 213 (formerly SPC 213) and concurrent enrollment in ACS 313 (formerly SPC 313).

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level SPC 213  
Minimum Grade of C OR Undergraduate level ACS 213 Minimum Grade of C  
**Corequisites:** ACS313

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**ACS 323 - Interpersnl Comm Theory & Apps - 3** <sup>S</sup>

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Explores beginning, maintaining and ending relationships. Emphasizes gender, racial and cultural influences; power; self-image; and metACSmunication. This course contains both theoretical and experimental approaches to personal relationships. [Dist. FAH] Prerequisite: ACS 103 (formerly SPC 103).

**Attributes:** BSS, DFAH

**Prerequisites:** Undergraduate level SPC 103  
Minimum Grade of D OR Undergraduate level ACS 103 Minimum Grade of D

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**ACS 329 - Communication Research Methods - 3** FMS

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Contemporary methods applicable to analysis of human communication processes. Includes logic of research design and statistical reasoning. Practical experience with communication survey research design. [Dist. FAH]

**Attributes:** BSS, DFAH

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**ACS 330 - Theories of Communication - 3** FMS

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Contemporary and significant historical approaches to developing and testing theories and models of the process of human communication. [Dist. FAH]

**Attributes:** BSS, DFAH

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**ACS 331 - Gender and Communication - 3** M

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Investigation of the influences of gender on the communication process. Activities, exercises and presentations sensitize students to gender influences on verbal and nonverbal communication. [Dist. FAH, IGR]. Same as WMST 331.

**Attributes:** BSS, DFAH, EUSC, IGR

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**ACS 370 - Health Communication - 3**

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Examines the role of communication and culture in general models of health and illness, caregiver-patient relationships, social support, and health campaigns.

**Attributes:** BSS, DFAH, EUSC, IGR

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**ACS 403 - Org Comm Theory & Applications - 3** F

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Diagnosing communication problems in organizations and implementing solutions. Research methods and theoretical applications in organizational communication. [Dist. FAH]  
Prerequisite: ACS 203 (formerly SPC 203) or consent of instructor.

**Attributes:** BSS, DFAH

**Prerequisites:** Undergraduate level SPC 203  
Minimum Grade of D OR Undergraduate level ACS 203 Minimum Grade of D

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**ACS 409 - Senior Project in Corp&Org Com - 3** S

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Application of organizational communication theories to service learning project, where students summarize and present their experience to faculty. NOT FOR GRADUATE CREDIT.

**Prerequisites:** (Undergraduate level SPC 329 Minimum Grade of C OR Undergraduate level ACS 329 Minimum Grade of C) AND (Undergraduate level SPC 330 Minimum Grade of C OR Undergraduate level ACS 330 Minimum Grade of C) AND (Undergraduate level SPC 200 Minimum Grade of C OR Undergraduate level ACS 200 Minimum Grade of C) AND (Undergraduate level SPC 403 Minimum Grade of C OR Undergraduate level ACS 403 Minimum Grade of C)

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**ACS 410 - Rhetorical Theory & Criticism - 3**

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Classical and contemporary theories and methods for analyzing and evaluating public address and other significant forms of communication. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

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**ACS 411 - Analysis of Political Comm - 3**

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Role of communication in politics. Topics include speech preparation, delivery, image promotion, public opinion formation, lobbying behavior as factors in political communication strategies. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

### **ACS 413 - Case Studies in PR - 3** <sup>S</sup>

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Strategies and critical analyses of ethical issues and approaches in the social and political atmosphere of public relations. Prerequisite: 213 with grade of C or better or consent of instructor.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level SPC 213  
Minimum Grade of C OR Undergraduate level ACS 203 Minimum Grade of C

### **ACS 414 - PR Cmpgns I: Rsrch & Planning - 3** <sup>F</sup>

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Research and planning stages of public relations campaigns, leading to development of comprehensive public relations campaign proposals and formal presentations to clients. Fulfills part of the Senior Project requirement.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** (Undergraduate level ACS 200 Minimum Grade of D OR Undergraduate level SPC 200 Minimum Grade of D) AND (Undergraduate level ACS 312 Minimum Grade of D OR Undergraduate level SPC 312 Minimum Grade of D) AND (Undergraduate level ACS 315 Minimum Grade of D OR Undergraduate level SPC 315 Minimum Grade of D) AND (Undergraduate level ACS 413 Minimum Grade of D OR Undergraduate level SPC 413 Minimum Grade of D) AND (Undergraduate level ACS 213 Minimum Grade of C OR Undergraduate level SPC 213 Minimum Grade of C) AND (Undergraduate level ACS 313 Minimum Grade of C OR Undergraduate level SPC 313 Minimum Grade of C) AND (Undergraduate level ACS 329 Minimum Grade of C OR Undergraduate level SPC 329 Minimum Grade of C) AND (Undergraduate level ACS 330 Minimum Grade of C OR Undergraduate level SPC 330 Minimum Grade of C)

### **ACS 415 - PR Cmpgns II: Impl & Eval - 3** <sup>S</sup>

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Implementation and evaluation stages of public relations campaign, culminating with organization of special event and formal presentations to faculty. Fulfills part of the Senior Project requirement.

**Prerequisites:** (Undergraduate level ACS 414 Minimum Grade of D OR Undergraduate level SPC 414 Minimum Grade of D)

### **ACS 416 - International Public Relations - 3**

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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.

**Attributes:** BICS, DSS, EGC

### **ACS 419 - Special Topics in Spc Comms - 3**

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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.

**Attributes:** DFAH, HUM

### **ACS 421 - Computer-Mediated Comm - 3** <sup>F</sup>

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Focuses on characteristics of CMC and how CMC functions in various contexts with the intention to familiarize with several concepts and theories.

**Attributes:** BICS, DFAH

**Prerequisites:** Undergraduate level ACS 103 Minimum Grade of D OR Undergraduate level SPC 103 Minimum Grade of D

### **ACS 422 - Family Communication - 3** <sup>F</sup>

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Focus on communication functions and behavior within families which develop, maintain, enrich, or limit family relationships.

**Attributes:** DFAH

**Prerequisites:** Undergraduate level ACS 103 Minimum Grade of D OR Undergraduate level SPC 103 Minimum Grade of D

### **ACS 423 - Top in Interpersonal Comm - 3**

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Rotating topic course addressing current topics in interpersonal communication. May be repeated to total of 9 hours as long as no topic is repeated.

**Attributes:** BSS, DFAH

### **ACS 424 - IPC Senior Project - 3** <sup>S</sup>

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Designed for students in the interpersonal communication track. Students conduct an original investigation of an interpersonal communication phenomenon individually or as a group.

**Prerequisites:** (Undergraduate level SPC 200 Minimum Grade of C OR Undergraduate level ACS 200 Minimum Grade of C) AND (Undergraduate level SPC 201 Minimum Grade of C OR Undergraduate level ACS 201 Minimum Grade of C) AND (Undergraduate level SPC 323 Minimum Grade of C OR Undergraduate level ACS 323 Minimum Grade of C) AND (Undergraduate level SPC 329 Minimum Grade of C OR Undergraduate level ACS 329 Minimum Grade of C) AND (Undergraduate level SPC 330 Minimum Grade of C OR Undergraduate level ACS 330 Minimum Grade of C) AND (Undergraduate level SPC 421 Minimum Grade of C OR Undergraduate level ACS 421 Minimum Grade of C) AND (Undergraduate level SPC 422 Minimum Grade of C OR Undergraduate level ACS 422 Minimum Grade of C) AND (Undergraduate level SPC 434 Minimum Grade of C OR Undergraduate level ACS 434 Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Majors: Applied Communication Studies, Speech Communication

### **ACS 430 - Persuasion & Social Influence - 3**

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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. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

### **ACS 431 - PR Visual Communication - 3**

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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.

**Attributes:** BICS, DFAH

### **ACS 432 - Social Media for Public Rel - 3**

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Social Media use and measurement in Public Relations campaigns.

**Attributes:** BICS, DFAH

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ACS 433 - Language & Speech Comm - 3**

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Role and impact of language in speech communication development, processes and behavior. Relational development and conflict resulting from differences in language usage. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

### **ACS 434 - Nonverbal Communication - 3**

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Nonverbal theories across varied contexts. Means of transmission and reception of nonverbal cues. Relationship of nonverbal and verbal behavior. [Dist. FAH]

**Attributes:** BICS, DFAH, HUM

### **ACS 461 - Strats For Teaching Speech Comm - 3**

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Philosophy of speech education and approaches for teaching speech in curricular and co-curricular settings. Not for GRADUATE CREDIT.

**Attributes:** DFAH, HUM

**Prerequisites:** 12 hours of ACS coursework

### **ACS 491 - Internship in Applied Comm - 1 to 9**

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Study, observation, and professional experience with business and organizations in the various areas of communication under joint supervision of the organizational representative and the speech communication faculty sponsor. May be repeated to a maximum of 9 hours, 3 of which may count toward a speech communication major. Not for graduate credit. Prerequisites: Junior or Senior standing, a major in speech communication, consent of the director of internships, acceptance by the organizational representative.

**Restrictions:** Must be enrolled in one of the following Majors: Applied Communication Studies, Speech Communication, Spc. - Corporate and Org Comm, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman,

Sophomore

## Academic Development (AD)

### AD 070 - Beginning Algebra - 3

FMS

Signed numbers, fractions, integer exponents, algebraic expressions, solving linear equations/inequalities, graphing, polynomial operations, factoring, rational expressions, systems of linear equations, 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.

**Prerequisites:** ALEKS PPL (UL01) score of 0 or above and student attribute of PT6

### AD 080 - College Reading I - 5

This course, where reading is taught as an active process reliant on various techniques, broadens reading background and prepares students for success with academic coursework. Credit not counted for graduation. Letter grades not counted in grade point average. Five contact hours.

### AD 082 - College Reading II - 3

FS

Course focuses on strengthening reading comprehension and critical reading skills. Credit not counted for graduation. Letter grades not counted in grade point average. Four contact hours. Prerequisite: Course placement determined by ACT and score of 24-34 on reading placement test or grade of C or better in AD 080A/B and/or consent of instructor. Exit criteria: C or better and/or consent of instructor.

### AD 085 - Introduction to Geometry - 3

Fundamentals of Euclidean geometry: angles, parallel lines, polygons, circles, polyhedrons, area and volume, similarity, congruence, mathematical reasoning, informal proofs. Credit not counted towards graduation. Grades not calculated in GPA.

### AD 090 - Basic Writing I - 5

FS

Focus on thinking skills and expression of ideas within organized and coherent paragraphs and short essays. Emphasis on sentence skills and college level vocabulary. Credit not to be counted for graduation. Letter grades not counted in GPA. 5 contact hours.

### AD 092 - Basic Writing II - 3

F

Focus on writing of multi-paragraph essays and development of analytical skills needed to address abstract topics. Credit not to be counted for graduation. Letter grades not counted in grade point average. Four contact hours. Prerequisite: course placement determined by ACT and writing assessment or grade of C or better in AD 090A and D in AD 090b and/or consent of instructor. Exit criteria to Eng 101: C or better in AD 092 and/or consent of instructor.

**Prerequisites:** Writing Skills Score 081 OR Undergraduate level AD 090 Minimum Grade of C OR ACT English 19 OR ACCUPLACER Writing 243 OR WRIT/LANGUAGE TEST SCORE 26

### AD 095 - Intermediate Algebra - 3

Polynomials, factoring, rational exponents, linear and quadratic equations/inequalities, functions, graphing, rational expressions, radicals, complex numbers, absolute value equations/inequalities, systems of equations, logarithms, geometry, applications. Credit not counted towards graduation. Grades not calculated in GPA. Five contact hours.

**Prerequisites:** (Undergraduate level AD 065 Minimum Grade of C OR Undergraduate level AD 070 Minimum Grade of C) OR PLCMNTREC-Math 03 OR ACT Math 21 OR Algebra Score 046 OR Undergraduate level AD 070 Minimum Grade of C

### AD 115 - Study Skills - 2

FMS

Improve study behaviors and attitudes through academic goal setting, study systems, note-taking techniques, test taking strategies, time management, classroom communication and problem solving.

### AD 116 - Reading Speed and Efficiency - 2

FS

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: Placement test score of 81 or above, or ACT reading score of 18 or better, or grade of C or better in AD 082 or consent of instructor.

**Prerequisites:** Undergraduate level AD 082 Minimum Grade of C OR PLCMNTEST-Reading 35 OR Reading Score 081 OR ACT Reading 18 OR ACCUPLACER Reading 243 OR Undergraduate level ENG 101 OR READING TEST SCORE 24

### **AD 117 - Career Planning & Development - 2** <sup>FS</sup>

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.

## **Anthropology (ANTH)**

### **ANTH 111A - Human Ancestry and Adaptations - 3** <sup>FMS</sup>

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.

**Attributes:** BLS, EGC, INSM

### **ANTH 111B - Human Culture & Communication - 3** <sup>FMS</sup>

An introduction to cultural and linguistic anthropology. Examines diversity in life-ways of peoples around the world. Includes anthropological approaches to social groups, symbolic systems, globalization.

**Attributes:** BSS, EGC, EUSC, IC, IGR, ISS

### **ANTH 170A - Intro Topics in Biol Anthropol - 3**

Significant problems and issues in natural science applications of biological anthropology not treated in other courses, presented at an introductory level.

Content varies.

**Attributes:** BLS, INSM, LS

### **ANTH 170B - Intro Topics in Anthropology - 3**

Significant problems and issues in social science applications of anthropology not treated in other courses, presented at an introductory level. Content varies.

**Attributes:** BSS, ISS

### **ANTH 202 - Anthro Through Films/Fiction - 3**

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.

**Attributes:** BSS, DSS, EGC, ELEC, EUSC, IGR

### **ANTH 204 - Anthropology of the Paranormal - 3**

Critical exploration of popular and anthropological perspectives on the paranormal phenomena including epistemology, death, the afterlife, ghosts, cryptids, outer space and aliens.

**Attributes:** BSS, DSS, EGC, IC

### **ANTH 205 - Intro to Native American Studi - 3** <sup>F</sup>

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.

**Attributes:** BSS, DSS, EUSC, IGR

**Restrictions:** May not be enrolled as the following Classifications: Master's Candidate

### **ANTH 270 - Special Topics in Anthropology - 3** <sup>F</sup>

Significant problems and issues in Anthropology not treated in other courses. May be repeated to a maximum of 9 hours as long as no topic is repeated.

**Attributes:** BSS, DSS, EGC, IC

### **ANTH 300 - Ethnographic Method & Theory - 3**

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Theories, methodological approaches, and ethical issues in cultural and linguistic anthropology.  
Prerequisite: ANTH 111B with a minimum grade of C or concurrent enrollment.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level ANTH 111B  
Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ANTH 301 - Anthropology in Practice - 3**

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Focus on applied anthropology career domains and positions, ethical issues in applied anthropology, and skill development in research design, data analysis, and professional interaction.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level ANTH 111B  
Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ANTH 303 - Language, Culture & Power - 3**

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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.

**Attributes:** BICS, DSS, EUSC, IGR

### **ANTH 305 - People&Cultrs o/Native N Am - 3**

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Examines diversity in social, economic, political and religious aspects of the traditional cultures of selected native American nations and societies.

**Attributes:** BSS, DSS, EUSC, IGR

### **ANTH 308 - Religion and Culture - 3**

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A survey of religious traditions around the world in their cultural contexts, emphasizing indigenous

religious traditions.

**Attributes:** BHUM, DFAH, EGC, IC

### **ANTH 311 - People & Culture: Africa Diasp - 3**

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Anthropological perspectives on the culture and identities of people of African descent throughout the globe. Comparative approach and reviews the continuing transmission of culture.

**Attributes:** BSS, DSS, EUSC, IGR

### **ANTH 312 - Contemporary Native Americans - 3**

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History of unique position within North American society; contemporary issues in economics, politics, law, religion, social life and cultural heritage.

**Attributes:** BSS, DSS, EUSC, IGR

### **ANTH 325 - Archaeological Method & Theory - 3**

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Major historical developments in anthropological archaeology; methods and theoretical approaches to data analysis.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ANTH 332 - Orig o/Old Wrld Cities&States - 3**

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An overview of the rise of cities and states. Neolithic beginnings to developments in Mesopotamia, Egypt, Indus Valley, China, and Sub-Saharan Africa.

**Attributes:** BSS, DSS, EGC, IC

### **ANTH 333 - Orgns New Wrld Cities&States - 3**

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Origins and development of New World cities and states emphasizing Olmec, Mayan, Teotihuacan, Toltec, Aztec and Andean cultures. Spanish conquest of Aztecs and Incas.

**Attributes:** BSS, DSS, EGC, II

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**ANTH 334 - Food and Cultural Change - 3**

Overview of how human food ways and subsistence patterns have changed through time, emphasizing the origins and importance of agriculture.

**Attributes:** BLS, DNSM, EGC, IC

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**ANTH 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.

**Attributes:** BSS, DSS

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**ANTH 336 - North American Prehistory - 3**

Survey of North American archaeology, beginning with the arrival of humans in the New World, and ending with the arrival of Europeans ca. 1500.

**Attributes:** BSS, DSS, EGC, IC

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**ANTH 340 - Environmental Anthropology - 3**

Surveys the relationship between humans and their environments from an anthropological perspective, including changes through time and cross-cultural comparisons.

**Attributes:** BSS, DSS, EGC, IC

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**ANTH 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.

**Attributes:** BSS, DSS, EGC, II

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**ANTH 352 - Medical Anthropology - 3**

Theories and applications of medical anthropology. Cross-cultural perspectives on health and medicine.

**Attributes:** BSS, DSS, EGC, IC, II

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**ANTH 359 - Anthropology and Human Rights - 3**

A cross-cultural examination of issues in law, politics and human rights around the world.

**Attributes:** BSS, DSS, EGC

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**ANTH 360A - Biol Anthro Method & Theory - 3**

Current methods and theories in biological anthropology. Includes evolutionary theory, nonhuman primates, human variation, genetics and paleoanthropology. Must be taken concurrently with 360B.

**Attributes:** BLS, DNSM

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

**Corequisites:** ANTH360B

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ANTH 360B - Biological Anth Lab - 1**

Laboratory course that must be taken concurrently with 360A. Covers human osteology and comparative nonhuman primate material.

**Attributes:** BLS, DNSM, EL, LNSM

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

**Corequisites:** ANTH360A

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ANTH 365 - Human Origins - 3**

Advanced course on human evolution, focusing on fossil and archeological evidence, and investigating the origins and development of modern human physical and cultural features.

**Attributes:** BLS, DNSM, EL

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

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**ANTH 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.

**Attributes:** BLS, DNSM

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### **ANTH 367 - Primatology - 3**

An overview of humans' closest relatives (prosimians, monkeys, apes). Includes primate anatomy, ecology, social behavior, cognition and conservation.

**Attributes:** BLS, DNSM, EL

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### **ANTH 368 - Archaeology of Death - 3**

Advanced course with laboratory component examining human biology and culture through mortuary practices. Includes application of field and laboratory techniques, and consideration of ethical issues.

**Attributes:** BSS, DSS, EL

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 369 - Intro to Forensic Anthropology - 3**

Introduction to human osteology and anthropological methods, and the relationship to forensics, includes techniques for reconstructing identity, trauma and disease, decomposition, and taphonomy.

**Attributes:** BLS, DNSM, EL

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### **ANTH 370 - Special Topics in Anthropology - 3**

Significant problems and issues not treated in other courses. May be repeated to a maximum of 9 hours as long as no topic is repeated.

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### **ANTH 404 - Anthropology & the Arts - 3**

Analyzes global cultures' visual and material art forms in museum collections with focus on form, process, meaning, function and value. Prerequisite: Consent of instructor.

**Attributes:** BSS, DSS, EGC, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 405 - Alternative Tourisms - 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.

**Attributes:** BSS, DSS, EGC, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 408 - Anthropological Theory - 3**

Development of central ideas and schools of thought in anthropology, and their relevance to anthropological topics and methods today.

**Attributes:** BHUM, DSS

**Prerequisites:** Undergraduate level ANTH 111B  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 411 - Urban Anthropology - 3**

People in city environments; history of urban development, social and ethnic groups, networks; comparison of urban area in Africa, North America, and other cultural settings. Not for graduate credit.

**Attributes:** BSS, DSS, EGC, II

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### **ANTH 420 - Museum Anthropology - 3**

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: Consent of instructor.

**Attributes:** BICS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C OR Undergraduate level ANTH 111B  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following

Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 430 - Zooarchaeology - 3**

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The archaeology of animal remains. Methods and theories for investigating human use of animals in the past. Emphasis on identification of animal bone.

**Attributes:** BLS, DNSM, EL

**Prerequisites:** Undergraduate level ANTH 111A Minimum Grade of D AND Undergraduate level ANTH 360B Minimum Grade of D

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### **ANTH 432 - Prehistory of Illinois - 3**

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The history and archaeology of Native Americans in Illinois, will include examination of artifacts and artifact casts, and field trips to archaeological sites.

**Attributes:** BSS, DSS

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### **ANTH 435 - Living Cultural Heritage - 3**

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Exploration of interpretive and promotional strategies of living history, material culture and intangible cultural heritage at house museums and heritage sites in America and internationally.

**Attributes:** BICS, DSS, EUSC, SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ANTH 469 - Forensic Anthropology Applctn - 3**

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Combined lecture-lab course on human skeletal material analysis, including training in techniques for identifying sex, age, ancestry, trauma, disease, and taphonomic considerations.

**Attributes:** BLS, DNSM, EL

**Prerequisites:** Undergraduate level ANTH 369 Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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### **ANTH 470A - Spec Tpcs in Biol Anthropology - 3 to 9**

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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.

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level ANTH 111A Minimum Grade of D

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### **ANTH 470B - Special Topics in Anthropology - 3 to 9**

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ANTH 111B Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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### **ANTH 473 - Ethnographic Field School - 3 or 6**

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Students participate in an original field-based research project in linguistic or cultural anthropology directed by the instructor. Emphasizes data collection/analysis/write-up.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ANTH 111B Minimum Grade of C

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### **ANTH 474 - Biol Anth Field School - 3 or 6**

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Research design, data collection and analysis in primatology, skeletal biology, forensic anthropology, or paleoanthropology requiring an independent project or participation in joint project. Requires consent of instructor.

**Attributes:** BLS, DNSM

**Prerequisites:** Undergraduate level ANTH 111A Minimum Grade of C

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### **ANTH 475 - Archaeological Field School - 3 or 6**

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ANTH 111A  
Minimum Grade of C

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**ANTH 476 - Cultural Resource Management - 3** <sup>F</sup>

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ANTH 475  
Minimum Grade of C

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**ANTH 483 - Ind Study in Anthropology - 1 to 6** <sup>M</sup>

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Guided research on anthropological problems supervised by single faculty member chosen by student; consult chairperson before enrolling. Not for graduate credit.

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**ANTH 487 - Anthropological Research - 1 to 6**

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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.

**Attributes:** EL

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**ANTH 488 - Museum Internship - 1 to 6** <sup>S</sup>

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Professional experience in aspects of museum work, such as exhibition, interpretation, collections management, or administration.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following Levels: Graduate

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**ANTH 489 - Professional Internship - 1 to 6** <sup>S</sup>

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Individually crafted professional experiences in careers related to one or more of the four fields of anthropology.

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**ANTH 490A - Senior Assignment Colloquium - 2**

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Application of anthropological knowledge and skills to real world problems through capstone project development and career development activities.

**Corequisites:** ANTH490B

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**ANTH 490B - Senior Assignment Mentorship - 1**

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Individualized capstone project development under the supervision of a faculty mentor.

**Corequisites:** ANTH490A

**Restrictions:** Must be enrolled in one of the following Majors: Anthropology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**Arabic (ARA)**

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**ARA 101 - Elementary Arabic I - 4** <sup>F</sup>

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Listening, speaking, reading, and writing. Culture of Arabic-speaking countries. Lab included.

**Attributes:** BICS, FL, HUM, SKFL

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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**ARA 102 - Elementary Arabic II - 4** <sup>S</sup>

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continuation of ARA 101. Lab included.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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**ARA 201 - Intermediate Arabic I - 4**

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Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level ARA 102  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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### **ARA 202 - Intermediate Arabic II - 4**

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Continuation of 201, 1. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level ARA 201  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

## **Art and Design (ART)**

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### **ART 111 - Introduction to Art - 3** FMS

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Visual arts: painting, sculpture, architecture, related media; intended to cultivate discrimination in viewing and understanding works of art. Not for major credit. IAI Course No. F2 900.

**Attributes:** BFPA, IFAH

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### **ART 112A - Foundation Studio - Drawing I - 3** FS

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Drawing I: Basic approaches to drawing; introducing a variety of media and subject matter.

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### **ART 112B - Foundation Studio: Visual Org I - 3** FS

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Visual Organization I: Two dimensions, color.

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### **ART 112C - Foundation Studio: Drawing II - 3**

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Drawing II: Further development and study of drawing techniques and media investigations, with additional emphasis on concepts and composition.

**Prerequisites:** Undergraduate level ART 112A  
Minimum Grade of C

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### **ART 112D - Found Studio: Visual Org II - 3** FS

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Visual Organization II: Three dimensions.

**Prerequisites:** Undergraduate level ART 112B  
Minimum Grade of C

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### **ART 202A - Intro to Studio: Sculpture - 3** FS

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Sculpture: welding, casting, wood construction; need not be taken in sequence. Prerequisite: Art 112C and ART 112D with minimum grade of C (concurrent enrollment allowed in ART 112C).

**Attributes:** BFPA, DFAH

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### **ART 202B - Intro to Studio: Printmaking - 3**

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Introduction to relief, intaglio and monotype printmaking techniques.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level ART 112A  
Minimum Grade of C AND Undergraduate level ART 112B Minimum Grade of C

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### **ART 202C - Intro to Studio: Ceramics - 3** FMS

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Ceramics: glazing, firing. Need not be taken in sequence.

**Attributes:** BFPA, DFAH

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### **ART 202D - Intro to Studio: Painting - 3** FS

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Painting: oils. Need not be taken in sequence. Prerequisite: Prerequisite: Art 112C and ART 112D with minimum grade of C (concurrent enrollment allowed in ART 112D).

**Prerequisites:** Undergraduate level ART 112C  
Minimum Grade of C AND Undergraduate level ART 112D Minimum Grade of C (concurrency allowed)

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### **ART 202E - Intro to Studio: Drawing - 3** FS

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Drawing: composition, figure. Need not be taken in sequence. Prerequisite: Art 112C and ART 112D with minimum grade of C (concurrent enrollment allowed in ART 112D).

**Prerequisites:** Undergraduate level ART 112C  
Minimum Grade of C AND Undergraduate level ART 112D Minimum Grade of C (concurrency allowed)

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### **ART 202F - Intro to Studio: Textile Arts - 3** FS

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Introduction to Textile Arts builds compositional and color skills using textile media including: Indigo dyeing, silk-screen printing, felt making, book arts.

**Attributes:** BFPA, DFAH

**ART 202G - Intro to Studio: Metalsmithing - 3** FS

Metalsmithing: introduction to aesthetic and technical pursuits of contemporary jewelry and metalsmithing at beginning level. Prerequisite: Art 112C and ART 112D with minimum grade of C (concurrent enrollment allowed in ART 112C).

**Prerequisites:** Undergraduate level ART 112C Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 112D Minimum Grade of C

**ART 202H - Intro to Digital Photography - 3** FS

Basic digital photography, including theory and practice: photographic vision, camera controls, digital editing and printing. Required: a working SLR digital camera with manual controls.

**Attributes:** BFPA, DFAH

**ART 202I - Intro to Studio:Graphic Design - 3** FMS

Introduction to visual communication problem-solving skills. Exercises: principles of perception, typographic usage, and visual hierarchy. Combines traditional hand skills with basic computer skills. Prerequisite: ART 112B, Art 112C and ART 112D with minimum grade of C (concurrent enrollment allowed in ART 112C and ART 112D).

**Attributes:** BFPA, DFAH

**ART 225A - History of Western Art: Prehis - 3** FS

Major periods and styles. (a) Prehistoric through Medieval art. Open to all students. IAI Course No. F2 901.

**Attributes:** BFPA, DFAH, EGC, IC

**ART 225B - History of Western Art: Renais - 3** FS

Major periods and styles. (b) Renaissance to present. Open to all students. IAI No. F2 902.

**Attributes:** BFPA, DFAH, EGC, IC

**ART 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.

**ART 300A - Art Education in Elementary - 3**

Objectives, theory, and practices of teaching grades K-6; study of developmental stages, emphasis on media and strategies for implementing activities K-6

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**ART 300B - Art Education in Elementary - 3** S

Objectives, 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.

**Prerequisites:** Undergraduate level ART 289 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**ART 302A - Intermediate Dig Photo:Color - 3** F

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. Prerequisite: ART 112C, Art 112D and ART 202H with minimum grade of C (concurrent enrollment allowed in ART 112C and ART 112D).

**Prerequisites:** Undergraduate level ART 112C Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 112D Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 202H Minimum Grade of C

**ART 302B - Intrm Digtl Phtg:Black&White - 3** S



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. Prerequisite: ART 112B, ART 112C, Art 112D and ART 202H with minimum grade of C (concurrent enrollment allowed in ART 112B and ART 112C).

**Prerequisites:** Undergraduate level ART 112B Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 112C Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 112D Minimum Grade of C AND Undergraduate level ART 202H Minimum Grade of C

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### **ART 305 - Ceramics - 3 to 6**

FMS

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. Prerequisite: ART 112D and ART 112C with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level ART 202C Minimum Grade of C AND Undergraduate level ART 112C Minimum Grade of C (concurrency allowed) AND Undergraduate level ART 112D Minimum Grade of C (concurrency allowed)

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### **ART 310A - Painting Methods - 3 to 6**

Intensive study using a series format for students to explore a variety of expressive modes including media experimentation. May be repeated up to 6 credit hours.

**Prerequisites:** Undergraduate level ART 202D Minimum Grade of C

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### **ART 310B - Figure Painting - 3 to 6**

An 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.

**Prerequisites:** Undergraduate level ART 202D Minimum Grade of C AND Undergraduate level ART 202E Minimum Grade of C

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### **ART 310C - Painting: Topics - 3**

M

An intermediate painting course offered to cover a rotation of topics not traditionally offered such as aqueous media, plain-air painting and large format painting.

**Prerequisites:** Undergraduate level ART 202D Minimum Grade of D

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### **ART 311 - Typography - 3**

S

This course 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.

**Prerequisites:** Undergraduate level ART 202I Minimum Grade of C

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### **ART 312 - Graphic Design II - 3**

Intermediate desktop and publishing; electronic typography, pagination and illustration; symbol, logo, poster and publication design; computer imaging.

**Prerequisites:** Undergraduate level ART 202I Minimum Grade of C

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### **ART 325 - Studio I - 3 to 6**

S

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.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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### **ART 331A - AdvDra:Figure in Context - 3**

F

This course concentrates on the human body as a vehicle for personal expression. Resources include the human model, skeleton, self-portrait, historical models.

**Prerequisites:** Undergraduate level ART 202E Minimum Grade of C

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### **ART 331B - Adv. Drawing: Serial Imagery - 3**

S

Serial imagery is a vehicle to facilitate student experimentation in materials, techniques, methodology and content. Art history and critical theory are important.

**Prerequisites:** Undergraduate level ART 202E  
Minimum Grade of C

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### **ART 358 - Relief Printing Process - 3**

Includes traditional and experimental methods with woodcut, linocut, monoprint, various materials, and color techniques.

**Prerequisites:** Undergraduate level ART 202B  
Minimum Grade of C

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### **ART 359 - Intaglio Processes - 3**

Hard and soft-ground etching, lift grounds, relief etching, engraving, drypoint, aquatint, collagraphs, color techniques.

**Prerequisites:** Undergraduate level ART 202B  
Minimum Grade of C

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### **ART 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.

**Prerequisites:** Undergraduate level ART 202B  
Minimum Grade of C

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### **ART 364 - Curr Dev of Elem & Sec Art Ed - 3** <sup>S</sup>

Curricular models used in Art Education; construction of sample art curriculum for given levels.

**Prerequisites:** Undergraduate level ART 289  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ART 365 - Art Ed in the Secondary School - 3** <sup>F</sup>

Teaching methodology for secondary art programs;

reading, discussion, and planning art teaching; emphasis on studio art and art appreciation. Clinical experience at selected secondary school.

**Prerequisites:** Undergraduate level ART 289  
Minimum Grade of D

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### **ART 384A - Intermediate Weaving - 3** <sup>F</sup>

Building on the weaving experience of 202f, this course focuses on floor loom weaving, computer weave drafting and introduces dyeing with ikat and warp painting.

**Prerequisites:** Undergraduate level ART 202F  
Minimum Grade of C

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### **ART 384B - Surface Design - 3** <sup>S</sup>

Building on the screen-printing and indigo dying of the 202f, this course focuses on silkscreen printing, computer based image manipulation, fiber reactive dyes and chemical screen-printing tools.

**Prerequisites:** Undergraduate level ART 202F  
Minimum Grade of C

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### **ART 384C - Textile Arts: Special Topics - 3** <sup>M</sup>

Book arts, papermaking, felt making, basketry and sculptural fiber forms are among the topics that might be covered in this course. Check with department for specific listings.

**Prerequisites:** Undergraduate level ART 202F  
Minimum Grade of C

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### **ART 386A - Adv. metalsm: Metal Cast&Fabri - 3**

This course offers various methods of casting: centrifugal, vacuum and cuttlebone casting with advanced techniques involved in fabrication.

**Prerequisites:** Undergraduate level ART 202G  
Minimum Grade of C

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### **ART 386B - AdvMetalsm: Metal Form&Fabri - 3**

This course offers various metal forming processes; chasing and repoussé, fold forming, angle raising; symmetrical and asymmetrical, and hydraulic press

forming with advanced fabrication.

**Prerequisites:** Undergraduate level ART 202G  
Minimum Grade of C

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### **ART 386C - Adv Metalsm:Color o/Metal&Fabr - 3**

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This course offers various metal forming processes: chasing and repoussé, fold forming, angle raising: symmetrical and asymmetrical and hydraulic press forming with advanced fabrication.

**Prerequisites:** Undergraduate level ART 202G  
Minimum Grade of C

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### **ART 393A - Sculpture-Modeled Form - 3**

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Exploration of contemporary sculpture making with emphasis on development of techniques and ideas.

**Prerequisites:** Undergraduate level ART 202A  
Minimum Grade of C

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### **ART 393B - Sculpture-Cast Form - 3**

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Cast Form-Exploration of contemporary sculpture making with emphasis on development of techniques and ideas.

**Prerequisites:** Undergraduate level ART 202A  
Minimum Grade of C

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### **ART 393C - Sculpture-Assembled Form - 3**

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Exploration of contemporary sculpture making with emphasis on development of techniques and ideas.

**Prerequisites:** Undergraduate level ART 202A  
Minimum Grade of C

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### **ART 401 - Research in Painting - 3 to 6** <sup>FM</sup>

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Advanced problems in painting. May be repeated for a maximum of 9 hours at the undergraduate level, 12 hours at the graduate level.

**Prerequisites:** Complete ART 310A and 310B with a C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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### **ART 402 - Research in Sculpture - 3 to 9** <sup>F</sup>

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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:** Complete ART 393A, 393B, 393C with C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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### **ART 405 - Seminar - 3** <sup>FS</sup>

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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: more than 75+ hours.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Unclassified Graduate, Sophomore

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### **ART 408A - Art Ed/Elementary: Disabled St - 3**

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Art Education for the disabled student.

**Prerequisites:** Complete ART 300A or be at Graduate Standing (GM)

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### **ART 408B - Art Ed f/ Elem Teach: Dev Moti - 3**

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Development of motivational and instructional materials.

**Prerequisites:** Complete ART 300A or be at Graduate Standing (GM)

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### **ART 408C - Art Ed/Elem Teaching: Adv Mtrl - 3**

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Advanced materials and methods for classroom teachers.

**Prerequisites:** Complete ART 300A or be at Graduate Standing (GM)

### **ART 410 - Research in Printmaking - 2 to 6** <sup>FS</sup>

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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; or graduate standing.

**Prerequisites:** Complete ART 358, 359, 360 with C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

### **ART 412 - Research in Graphic Design - 3**

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Directed practicum in advanced client-based desktop design and publishing. May be repeated to a maximum of 9 hours.

**Prerequisites:** Complete ART 311 and 312 with grade of C or better or be at Graduate Standing (GM), or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

### **ART 413 - Conceptual Art Digital Media - 3**

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Conceptual development through computer-based image capture and manipulation and integration of digital technology with traditional studio arts and or electronic media applications.

**Prerequisites:** Undergraduate level ART 302A Minimum Grade of C OR Undergraduate level ART 312 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

### **ART 414 - Graphic Design History - 3**

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History of visual communication, including historic movements in Graphic Design and Advertising. Coursework combines lecture materials, quizzes, readings, and research into student projects.

**Prerequisites:** Complete ART 225A or 225b, ART 311 and ART 312 with grade of C or better, or be at Graduate Standing (GM), or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

### **ART 415 - Visual Identity: Logo & Brand - 3**

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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. Prerequisite 311 and 312, with a minimum grade of C or better, or consent of instructor. May be repeated up to 6 hours.

**Prerequisites:** Complete ART 311 and 312 with grade of C or better, or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

### **ART 416 - Glassworking - 3 to 6** <sup>F</sup>

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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. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

### **ART 420 - Advanced Ceramics - 3 to 6** <sup>FMS</sup>

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Supervised research in specific ceramic areas of technical and aesthetic interest. May be repeated to a maximum of 9 hours at the undergraduate level, to a maximum of 12 hours for graduate students.

**Prerequisites:** Complete ART 305 with a C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design, Must be enrolled in one of the following Classifications: Graduate

### **ART 422 - Research in Photography - 3**

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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 at the undergraduate level, to a maximum of 12 hours at the graduate level.

**Prerequisites:** Complete ART 302a, 302b with a C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 423 - Advanced Photography Seminar - 3** FS

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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.

**Prerequisites:** Complete ART 302a or 302b with a C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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**ART 424 - Baroque Art - 3**

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Major developments in Baroque painting, sculpture, and architecture in seventeenth-century Italy, Spain, France, Flanders, and the Dutch Republic.

**Attributes:** ARTH, BHUM, DFAH, EGC, IC

**Prerequisites:** Complete ART 225B with a C or better or be at Graduate Standing (GM)

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**ART 426 - Senior Studio Assignment - 3**

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Varied content; group and/or individually designed senior assignment projects which may include travel, exhibition, research or other approved project.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**ART 430 - Studies in Art I - 3 to 6** S

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Advanced work in any studio area or Art Education. May be repeated for a maximum of 9 hours at the undergraduate level, for a maximum of 12 hours at the graduate level. No more than 3 hours may be taken per semester without written approval.

**Prerequisites:** Complete ART 325 or be at Graduate standing (GM).

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 440 - Publication & Info Design - 3**

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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.

**Prerequisites:** Complete ART 311, 312 with grade of C or better, or be at Graduate Standing (GM), or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 441 - Research in Drawing - 3 to 6** FS

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Advanced research in drawing experiences emphasizing individually realized content through development of compositions. May be repeated to a maximum of 12 hours.

**Prerequisites:** Complete ART 331 with a grade of C or better or be at Graduate Standing (GM).

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design, Art, Must be enrolled in one of the following Classifications: Master's Candidate, Senior with Degree, Senior

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**ART 447A - Ancient Art - Prehistoric to - 3**

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Art and architecture from prehistory through Rome; prehistoric to Greek Late Archaic.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225A with a C or better or be at Graduate Standing (GM)

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**ART 447B - Ancient Art - Greek High - 3**

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Art and architecture from prehistory through Rome; Greek High Classic to Rome.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225A with a C or better or be at Graduate Standing (GM)

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**ART 448 - Medieval Art - 3**

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Visual Arts of the Early Christian and Medieval periods from the 4th century through Romanesque and Gothic.

**Attributes:** ARTH, DFAH, EGC, FPA

**Prerequisites:** Complete ART 225A with a C or better or be at Graduate Standing (GM)

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### **ART 449 - Italian Renaissance Art - 3**

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Architecture, sculpture, and painting of the Late Gothic, Renaissance, and Mannerist periods in Italy.

**Attributes:** ARTH, BHUM, DFAH, EGC

**Prerequisites:** Complete ART 225B with a C or better or be at Graduate Standing (GM)

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### **ART 450 - Early Childhood Art Education - 3** <sup>F</sup>

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Art Education practices in Early Childhood Art Education; methods and materials based on developmental needs.

**Prerequisites:** Complete ART 300A or be at Graduate Standing (GM)

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### **ART 451 - Northern Renaissance Art - 3**

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Architecture, sculpture, and painting of the Renaissance and Mannerist periods in Northern Europe. Prerequisites: 225a,b with grades of C or better, or graduate standing.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225A or 225B with C or better or be at Graduate Standing (GM)

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### **ART 452 - Art Education for Older Adults - 3**

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Physical, artistic, and creative development of older adults; development of specific instructional approaches for older learners.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **ART 453 - Introduction to Museology - 3**

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Museum ethics, collections policies, security, administration and organization, public law, sources of funding, grant preparation.

**Attributes:** DFAH, FPA

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ART 454 - Curatorship: Exhibition Mgmt - 3**

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Exhibition design, preparation, labeling, security, hanging and display techniques and construction, lighting, traffic flow, docent training.

**Attributes:** DFAH, FPA

**Prerequisites:** Complete ART 453 or be at Graduate Standing (GM)

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### **ART 455 - Documentation of Collections - 3**

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Accessioning and deaccessioning processes, research, collection management, use of computers, narrative, photo documentation.

**Attributes:** DFAH, FPA

**Prerequisites:** Complete ART 453 or be at Graduate Standing (GM)

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### **ART 467 - Islamic Art and Architecture - 3**

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Art and architecture of the Islamic world from 650 to the present. Prerequisites: 225a,b with grades of C or better.

**Attributes:** ARTH, BHUM, DFAH, IC

**Prerequisites:** Complete ART 225A or 225B with a C or better or be at Graduate Standing (GM)

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### **ART 468A - Native Arts of Americas: Pre-Co - 3**

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Arts of indigenous societies of the Americas presented in cultural and geographical sequence, ancient to 19th century.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

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### **ART 468B - Native Arts of Amer: N.America - 3**

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Arts of indigenous societies of the Americas presented in cultural and geographical sequence, ancient to 19th century native arts of North America.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

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### **ART 469A - Primitive Art - Africa - 3**

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Arts of indigenous societies of sub-Saharan Africa presented in cultural and geographical sequence.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 469B - Primitive Art - Oceania - 3**

Arts of indigenous societies of Oceania: Polynesia, Micronesia, and Melanesia, presented in cultural and geographical sequence.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 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.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225a or 225b with a C or better or be at Graduate Standing (GM)

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### **ART 471 - Topics in Early Modern Art - 3**

Variable content course in the history of Renaissance and Baroque Art. May be repeated maximum of 9 hours as long as no topic is repeated.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 472 - Topics in Modern Art - 3**

Variable content course in the history of modern art. May be repeated to 9 hours as long as no topic is repeated.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 473 - Women in Art - 3**

History of women artists from the Renaissance to the

present.

**Attributes:** ARTH, BHUM, DFAH, EGC, IC

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

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### **ART 474 - Topics in Public Art - 3**

Variable content course in the history of public art. May be repeated to 9 hours as long as no topic is repeated.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 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.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

---

### **ART 476 - History of Modern Architecture - 3**

Principal technical and stylistic developments in architecture and design from the early 19th century to the present. Prerequisites: 225b with grades of C or better or graduate standing.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

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### **ART 480 - American Art - 3**

Survey of the history of art in the U.S. from the colonial period to the present day.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

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### **ART 481 - Modern Art - 3**

Principle movements and theories of art in the modern period.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

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**ART 482 - Contemporary Art - 3** s

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Principle movements and theories of contemporary art, ca. 1950 to the present.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225b with a C or better or be at Graduate Standing (GM)

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**ART 483 - Research in Art History - 3**

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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.

**Attributes:** ARTH, DFAH, FPA

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

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**ART 484 - Research in Fibers - 3 to 6** FMS

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Individual exploration of advanced fiber concerns in technique and mixed media approaches; concepts emphasizing integration of technical and aesthetic ideas. May be repeated to a maximum of 12 hours; consent of instructor for over 3 hours per semester.

**Prerequisites:** Complete ART 384 with a grade of C or better or be at Graduate Standing (GM).

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 485 - Art History Methods & Research - 3**

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Study of primary methods of research, interpretation, and writing in art history.

**Attributes:** ARTH, BHUM, DFAH

**Prerequisites:** Complete ART 225a, 225b with a C or better or be at Graduate Standing (GM)

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**ART 486 - Research in Metalsmithing - 2 to 6** FS

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Concentrated research in advanced metalsmithing

techniques and concepts. May be repeated to a maximum of 12 hours.

**Prerequisites:** Complete ART 386 with a C or better or be at Graduate Standing (GM)

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 487 - Senior Capstone in Art History - 3** s

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Senior Assignment. Completion of exit exam, major research project and presentation demonstrating proficiency in art historical methods.

**Prerequisites:** Complete ART 485 and 10 Art History Courses at the 400 level - (ART 424a,b, 447a,b, 448, 449, 451, 467, 468a,b, 469a,b, 470, 471, 472, 473, 474, 475, 476, 480, 481, 482, 483).

**Restrictions:** Must be enrolled in one of the following Concentrations: Art History, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**ART 498 - Internship in the Arts - 3 to 6**

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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 department chair or program director.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design

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**ART 499 - Senior Thesis Exhibition - 2 to 6** FS

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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. BFA candidates only. Prerequisite: 90+ hours.

**Restrictions:** Must be enrolled in one of the following Majors: Art, Art Therapy Counseling, Art and Design, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore



## Aerospace Studies (AS)

### **AS 101 - Heritage and Values USAF - 2** <sup>F</sup>

Survey course to introduce students in the U.S. Air Force. Provides an overview of basic missions and organization. Note: Leadership Lab is mandatory for AFROTC cadets.

### **AS 102 - Heritage and Values USAF - 2** <sup>S</sup>

Survey course to introduce students in the U.S. Air Force. Provides an overview of basic missions and organization. Note: Leadership Lab is mandatory for AFROTC cadets.

### **AS 201 - Team & Leadership Fundamentals - 2** <sup>F</sup>

Focuses on laying the foundation for teams and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.

### **AS 202 - Team & Leadership Fundamentals - 2** <sup>S</sup>

Focuses on laying the foundation for teams and leadership. Note: Leadership Lab is mandatory for AFROTC cadets.

### **AS 301 - Leading People & Effctv Comm - 3** <sup>F</sup>

This course teaches cadets advanced skills and knowledge in management and leadership. Note: Leadership Lab is mandatory for AFROTC.

### **AS 302 - Leading People & Effctv Comm - 3** <sup>S</sup>

This course studies leadership and management techniques needed by Air Force officers. Note: Leadership Lab is mandatory for AF ROTC military cadets.

### **AS 401 - Nat'l Security Affairs/Prep AD - 3** <sup>F</sup>

Gives college seniors the foundation to understand their role as military officers in American society. Note: Leadership Lab is mandatory for AFROTC

cadets.

### **AS 402 - Nat'l Security Affairs/Prep AD - 3** <sup>S</sup>

Gives college seniors the foundation to understand their role as military officers in American society. Note: Leadership Lab is mandatory for AFROTC cadets.

## Biological Sciences (BIOL)

### **BIOL 111 - Contemporary Biology - 3** <sup>FMS</sup>

[IAI No. L1 900] 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. Not for biological sciences major credit.

**Attributes:** BLS, INSM

### **BIOL 120 - Biology I: Animal Systems - 4**

Cellular organization, metabolism, genetics, reproduction, development, physiology, and evolution of animals. Three hours lecture, one laboratory per week.

**Attributes:** EL, INSM, LNSM, LS

**Prerequisites:** Undergraduate level CHEM 121A Minimum Grade of C AND Undergraduate level CHEM 125A Minimum Grade of C

### **BIOL 121 - Biology II: Plant Systems - 4**

Cellular organization, metabolism, genetics, reproduction, development, photosynthesis, physiology and evolution of plants. Three hours lecture, one laboratory per week.

**Attributes:** EL, INSM, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 120 Minimum Grade of C AND Undergraduate level CHEM 121B Minimum Grade of C AND Undergraduate level CHEM 125B Minimum Grade of C

### **BIOL 140 - Human Biology - 3** <sup>FMS</sup>

Introduction and application of basic human biology concepts, including cell theory, genetics, systems biology, and evolution. Not for biological sciences major credit. Three lectures per week.

**Attributes:** BLS, INSM

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**BIOL 150 - Intro to Biological Science I - 4** FMS

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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.

**Attributes:** BLS, EL, INSM, LNSM

**Prerequisites:** Undergraduate level CHEM 121A Minimum Grade of C (concurrency allowed)

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**BIOL 151 - Intro to Biological Science II - 4** FMS

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Second of a two-course sequence, introduction to major taxonomic groups with emphasis on evolutionary relationships and ecological principles. Lab required. Prerequisites: BIOL 150, CHEM 121a and CHEM 125a with grades of C or better.

**Attributes:** BLS, EL, INSM, LNSM

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level CHEM 121A Minimum Grade of C AND Undergraduate level CHEM 125A Minimum Grade of C

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**BIOL 203 - Human Sexuality & Reproduction - 3** S

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Sexual anatomy and physiology, normal and abnormal embryonic and fetal development, pregnancy and birth, birth control, sexual relationships, attitudes, behavior, sexual diseases and disorders. Not for biological sciences major credit.

**Attributes:** BLS, DNSM, EH

**Prerequisites:** Undergraduate level BIOL 111 Minimum Grade of C OR Undergraduate level BIOL 140 Minimum Grade of C OR Undergraduate level BIOL 150 Minimum Grade of C OR Undergraduate level BIOL 151 Minimum Grade of C

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**BIOL 204 - Biotechnology & Society - 3**

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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. Not for credit for Biological Sciences majors and minors.

**Attributes:** BLS, DNSM, EGC, II

**Prerequisites:** Undergraduate level BIOL 111 Minimum Grade of C AND Undergraduate level BIOL 140 Minimum Grade of C AND (Undergraduate level BIOL 150 Minimum Grade of C OR Undergraduate level BIOL 151 Minimum Grade of C)

**Restrictions:** May not be enrolled as one of the following Fields of Study (Major, Minor, or Concentration): Biological Sciences

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**BIOL 205 - Human Diseases - 3** S

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A molecular, cellular, organismic or environmental approach to the human body and its dysfunctions, disorders and diseases including their causes, treatments and recent biomedical advances. Not for biological sciences major credit.

**Attributes:** BLS, DNSM, EH

**Prerequisites:** Undergraduate level BIOL 111 Minimum Grade of C OR Undergraduate level BIOL 140 Minimum Grade of C OR Undergraduate level BIOL 150 Minimum Grade of C OR Undergraduate level BIOL 151 Minimum Grade of C

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**BIOL 220 - Genetics - 4** FS

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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 completion with a C or better or concurrent enrollment in CHEM 241a.

**Attributes:** BLS, DNSM, EL, LNSM

**Prerequisites:** MISSING CAPP PREREQS

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**BIOL 240A - Human Anatomy & Physiology - 4** FMS

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Functional architecture of the human body. Tissues, skeletal, muscular and nervous systems. Not for major credit.

**Attributes:** BLS, EL, INSM, LNSM

**Prerequisites:** (Undergraduate level BIOL 140 Minimum Grade of C OR Undergraduate level BIOL 150 Minimum Grade of C OR Undergraduate level BIOL 151 Minimum Grade of C) AND (Undergraduate level CHEM 120A Minimum Grade of C OR Undergraduate level CHEM 120N Minimum Grade of C OR Undergraduate level CHEM 121A Minimum Grade of C)

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**BIOL 240B - Human Anatomy & Physiology - 4**

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FMS

Continuation of BIOL240A. Endocrine, Circulatory, Respiratory, Digestive, Urinary systems. Not for major credit.

**Attributes:** BLS, DNSM, EH, EL, LNSM

**Prerequisites:** Undergraduate level BIOL 240A Minimum Grade of C

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**BIOL 250 - Bacteriology - 4**

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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.

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** (Undergraduate level BIOL 111 Minimum Grade of C OR Undergraduate level BIOL 140 Minimum Grade of C OR Undergraduate level BIOL 150 Minimum Grade of C) AND (Undergraduate level CHEM 120N Minimum Grade of C OR Undergraduate level CHEM 120A Minimum Grade of C OR Undergraduate level CHEM 121A Minimum Grade of C OR Undergraduate level CHEM 241A Minimum Grade of C)

**Restrictions:** May not be enrolled as one of the following Majors: Biological Sciences

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**BIOL 319 - Cell and Molecular Biology - 4**

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FS

Introduction to cellular processes including gene expression, protein and vesicular trafficking, and cell signaling. Differentiation between eukaryotes and prokaryotes. [GCB elective]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL

151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level CHEM 241A Minimum Grade of C

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**BIOL 321 - Plant Biology - 4**

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A comprehensive lab-oriented introductory course in plant biology. Two laboratories, two lectures. [EEE, DIV, FIELD elective]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Levels: Graduate

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**BIOL 327 - Evolution - 3**

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FS

Evolutionary change as shown in heredity, population genetics, speciation, adaptation, natural selection, development, behavior, geographical distribution, and the origin of life. [EEE elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C

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**BIOL 330 - Environmental Hlth & Waste Mgmt - 3**

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MS

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.

**Attributes:** DNSM, EGC, II, LS

**Prerequisites:** (Undergraduate level BIOL 111 Minimum Grade of D AND Undergraduate level CHEM 111 Minimum Grade of D) OR Undergraduate level BIOL 120 Minimum Grade of D OR (Undergraduate level BIOL 150 Minimum Grade of D OR Undergraduate level BIOL 151 Minimum Grade of D)

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**BIOL 335 - Intro to Immunology - 3**

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S

Anatomical, cellular, and biochemical aspects of the immune response. Immune mechanisms in transplantation, infectious disease, autoimmune

disease. [GCB elective]

**Attributes:** DNSM, EH, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

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### **BIOL 337 - Animal Histology - 4**

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The structure and function of vertebrate tissues as portrayed by major histological methods. [GCB, MPD electives]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

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### **BIOL 340 - Physiology - 4**

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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]

**Attributes:** DNSM, EH, EL, LNSM, LS

**Prerequisites:** BIOL 319 and PHYS 132, 132L with grades of C or better, and overall GPA of 3.0.

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### **BIOL 350 - Microbiology - 4**

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FS

Structure, metabolism, and genetics of bacteria and bacteriophages. Role of bacteria in disease, biotechnology, and the environment. [DIV, GCB electives]

**Attributes:** DNSM, EL, LS

**Prerequisites:** Undergraduate level BIOL 150  
Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level CHEM 121B Minimum Grade of C

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### **BIOL 365 - Ecology - 4**

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FS

Scope of ecology, population ecology, models of population growth, competition, predation, diversity and stability of ecosystems, community structure, and ecological energetics. [EEE elective]

**Attributes:** DNSM, EGC, EL, II, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 150  
Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C

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### **BIOL 371 - Plants and Civilization - 3**

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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]

**Attributes:** DNSM, EGC, IC, II, LS

**Prerequisites:** Undergraduate level BIOL 151  
Minimum Grade of C

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### **BIOL 380 - Invertebrate Biology - 4**

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Discussion of the major phyla of marine and freshwater invertebrates focusing on structure, function, development, evolutionary relationships, and ecological adaptations. [EEE, DIV electives]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 150  
Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C

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### **BIOL 415 - Technqs:Animal Cell & Tissue - 4**

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Theory and techniques of culture growth, differentiation, metabolism and transformation. Two lectures and two labs per week. [GCB elective]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 416 - Technqs in Plant Cell &Tissue - 4**

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Theory and techniques of culture growth, differentiation, metabolism and transformation. Two lectures and two labs per week. [GCB, MPD electives]

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 417 - Quant Meth in Exper Biol - 4**

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S

Selection and application of statistical techniques

appropriate for biological data. Practical experience using spreadsheets and statistical software.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 418A - Recombinant DNA - 3**

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F

Basic principles of gene cloning including the methods of creating recombinant DNA molecules, transfer of genes into recipient cells, and regulation following gene transfer. [GCB elective]

**Attributes:** DNSM, LS

**Prerequisites:** BIOL 220 and 319 with grades of C or better; or GM standing for Graduate students

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### **BIOL 418B - Recombinant DNA Lab - 3**

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S

Experiments in gene manipulation using bacterial genes exempt from federal guidelines concerning recombinant DNA. Six lab hours per week.

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 418A  
Minimum Grade of C OR Graduate level BIOL 418A  
Minimum Grade of C

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### **BIOL 421 - Human Genetics - 3**

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Human genetics, human chromosomes; Mendelian characters in man, genetic inference, pedigrees, twins, population-mutation-genetics of races; genetics and medicine. [GCB elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 422A - Population Genetics - 3**

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Unites the fields of molecular genetics and evolutionary biology to explore processes and mechanisms of evolutionary change, provide a theoretical basis for interpreting molecular

variation. [EEE, GCB electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C AND Undergraduate level BIOL 327  
Minimum Grade of C

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### **BIOL 422B - Population Genetics Lab - 1**

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Molecular and analytical techniques commonly employed in basic and applied fields of population genetics. Requires concurrent enrollment in BIOL 422A.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C AND Undergraduate level BIOL 327  
Minimum Grade of C

**Corequisites:** BIOL422A

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### **BIOL 423 - Forensic Biology - 3**

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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]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 425 - Developmental Biology - 3**

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Embryonic and postembryonic developmental processes in animals. Topics include: fertilization, morphogenesis, pattern formation and the cellular control of these events. [GCB, MPD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C AND Undergraduate level BIOL 319  
Minimum Grade of C

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### **BIOL 427 - Evolutionary Medicine - 3**

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Application of evolutionary theory to medical science providing insight into our understanding of challenges as diverse as infectious agents, allergies, cancer, obesity and mental disorder. [EEE]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 428 - Biology of Fungi - 3**

An in-depth treatment of fungi including phylogeny, cell biology, reproduction, development, and ecology, emphasizing features not typical of other Eukaryotes, and symbioses. [EEE, DIV electives]

**Prerequisites:** BIOL 220 with a grade of C or better, or equivalent or admission to graduate Biology program or instructor permission.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 431 - Cell & Molec Bases of Disease - 3**

Causes and pathophysiology of diseases presented from the cellular and molecular levels. [GCB elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 319  
Minimum Grade of C

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### **BIOL 432 - 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]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 319  
Minimum Grade of C

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### **BIOL 434 - Fundamentals of Aquatic Ecotox - 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]

**Attributes:** LS

**Prerequisites:** (Undergraduate level ENSC 220  
Minimum Grade of D AND Undergraduate level

ENSC 330 Minimum Grade of D) OR Undergraduate level BIOL 319 Minimum Grade of D OR Undergraduate level BIOL 365 Minimum Grade of D OR Undergraduate level CHEM 471 Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 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]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 330  
Minimum Grade of D OR Undergraduate level BIOL 465 Minimum Grade of D OR Undergraduate level ENSC 330 Minimum Grade of D OR Graduate level ENSC 531 Minimum Grade of C OR Undergraduate level CHEM 471 Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 436 - Fund of Molecular Tox & Pharm - 3**

Molecular, biochemical, and cellular mechanisms of toxicity, mode of action, metabolism, and interactions of environmental pollutants, toxic chemicals, and drugs. [EEE, GCB electives]

**Attributes:** LS

**Prerequisites:** (Undergraduate level ENSC 220  
Minimum Grade of D AND Undergraduate level ENSC 330 Minimum Grade of D) OR Undergraduate level BIOL 319 Minimum Grade of D OR Undergraduate level CHEM 471 Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 440 - Functional Human Anatomy - 4** <sup>s</sup>

Systematic and regional study of the human body, including thorax, abdomen, pelvis, back, limbs, head, neck, emphasizing structural, functional, and clinical

relationships. [MPD elective]

**Attributes:** BLS, DNSM, EH, EL

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

### **BIOL 441 - Advanced Physiology - 3**

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Energy procurement and balance, intermediate metabolism, temperature control; advanced topics of cardiovascular and respiratory mechanisms; body fluid regulation, and some environmental adaptations. [MPD elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 340  
Minimum Grade of C

### **BIOL 444A - Fundamentals of Neuroscience - 3**

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Integration of cellular and molecular biology, neuroanatomy, neurophysiology in nervous system function and control of behavior. Current mechanisms of learning, memory, drug actions, and motor control. [MPD elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 319  
Minimum Grade of C

### **BIOL 444B - Fundamentals of Neuroscien Lab - 1**

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Neuroscience experiments including molecular neurobiology, electrical recording, drug reactions, brain dissection, and/or histology. Prerequisite: BIOL 444a or concurrent enrollment, or instructor consent.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 444A  
Minimum Grade of D (concurrency allowed)

### **BIOL 451 - Microbial Pathogenesis - 3**

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Analysis of mechanisms of pathogenesis employed by bacteria, fungi, protozoa and viruses, including transmission, invasion, colonization, virulence factors, pathology, epidemiology, and treatment.

[GCB elective]

**Attributes:** DNSM, EH, LS

**Prerequisites:** Undergraduate level BIOL 350  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

### **BIOL 452 - Molecular Genetics - 3**

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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]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C AND Undergraduate level BIOL 319  
Minimum Grade of C

### **BIOL 455A - Virology - 3**

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Biochemical and physical structure of viruses and their mode of replication in infected cells, including latency and viral oncogenesis. [GCB elective]

**Prerequisites:** Undergraduate level BIOL 319  
Minimum Grade of C OR Undergraduate level BIOL 350  
Minimum Grade of C

### **BIOL 455B - Virology Lab - 1**

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Basic virology and microbiological techniques used in bacteriophage research.

**Prerequisites:** Undergraduate level BIOL 319  
Minimum Grade of C AND Undergraduate level BIOL 350  
Minimum Grade of C

**Corequisites:** BIOL455A

### **BIOL 456 - Principles of Biophysics - 4**

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Interdisciplinary approach to biophysics for students in biology, chemistry, and bioengineering. Weekly labs will include a variety of guest scientists demonstrating biophysical applications.

**Attributes:** DNSM, EL, LNSM

**Prerequisites:** MATH 145 or 150 and PHYS 131, 131L, 132, 132L.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,

Sophomore

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### **BIOL 460 - Wildlife Management - 3**

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Wildlife ecology, conservation, and management including effects of habitat, behavior, disease, and predation on populations. Optional field trips. [EEE elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 461 - Plants and Environment - 4**

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Environmental effects on plant growth, reproduction and distribution. Adaptive responses to environmental stress examined and measured. [EEE, MPD, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 462 - Biogeography - 3**

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Past and present spatial relationship of plants and animals. Speciation, dispersal and variation are addressed. [EEE, DIV electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 463 - Conservation Biology - 4**

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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]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **BIOL 464 - Applied Ecology - 3**

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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. (Same as ENSC 450)

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of C

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### **BIOL 465 - Aquatic Ecosystems - 4**

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Biogeochemistry and community structure of aquatic systems. Three lectures one three-hour laboratory per week.

**Attributes:** DNSM, EL, LS

**Prerequisites:** Undergraduate level BIOL 151  
Minimum Grade of C AND Undergraduate level  
CHEM 121B Minimum Grade of C

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### **BIOL 466 - Terrestrial Ecosystems - 3**

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Energy flow and mineral cycling as they interact with community organization and other processes in terrestrial ecosystems. Three lecture hours per week. Weekend field trips may be required.  
Prerequisite: BIOL 220 with a grade of C or better, or instructor consent.

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

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### **BIOL 467 - Animal Physiological Ecology - 3**

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Examine how an organism's environment affects its physiology. Comparative approach will explore physiological adaptations to a variety of environmental factors. [EEE, MPD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C AND (Undergraduate level



BIOL 340 Minimum Grade of C OR Undergraduate level BIOL 365 Minimum Grade of C)

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 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]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level BIOL 365 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 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]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level BIOL 365 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 470 - Field Biology - 4**

M

Distribution and ecology of regional biological communities. Natural history and identification of local plants and animals. In class field trips. [EEE, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 471 - Plant Systematics - 4**

Examination of basic processes in vascular plant evolution. Local flora characteristics and identification. [EEE, DIV, FIELD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 472 - Topics in Plant Physiology - 4**

Examination of plant cells, tissues, and morphology. Two lectures and two labs per week. [EEE, MPD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 473 - Plant Anatomy - 4**

Examination of plant cells, tissues, and morphology. Two lectures and two labs per week. [EEE, MPD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 474 - Plant Taxonomy - 4**

A field-oriented course in which students collect and identify plant specimens using professional taxonomic keys. [EEE, DIV, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **BIOL 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:** Undergraduate level BIOL 319  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 480 - Animal Behavior - 4**

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Examination of mechanisms, evolution, and ecological consequences of animal behavior. Concepts introduced through lectures, laboratory and field experiments, and independent projects. [EEE, DIV, FIELD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 481 - Quantitative Morphology - 4**

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Principles of the quantitative analysis of morphology, or an organism's size and shape, and its consequences. [MPD elective]

**Attributes:** EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 483 - Entomology - 4**

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An introduction to the life history, ecology, physiology, behavior, forensics, diversity, and taxonomy of insects. [EEE, DIV, FIELD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 485 - Ichthyology - 4**

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Taxonomy, ecology, distribution, behavior, and anatomy of fishes. Emphasis on local fauna. Saturday field trips required. [EEE, DIV, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 486 - Herpetology - 4**

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Living and fossil amphibians and reptiles, evolution, relationships, morphology, behavior. Two lectures and two laboratories per week. Saturday field trips required. [EEE, DIV, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 487 - Ornithology - 4**

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Examination of form, function, behavior, ecology and evolution of birds. Emphasis on local fauna. Three lectures and one laboratory per week. Saturday field trips required. [EEE, DIV, FIELD electives]

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **BIOL 488 - Mammalogy - 4**

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Morphology, systematics, natural history, taxonomy, and evolution of living and fossil mammals. Two lectures and two labs per week. [EEE, DIV, FIELD electives]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**BIOL 489 - Comparative Vertebrate Anatomy - 4** F

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A systematic study of the vertebrate body. Comparative approach will explore the anatomical similarities and differences among major vertebrate taxonomic groups. [EEE, MPD elective]

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**BIOL 490 - Topics in Biology - 1 to 4** S

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In-depth examination of an area of Biological Sciences. May be repeated up to 8 credit hours as long as neither topic nor professor is repeated.

**Attributes:** LS

**BIOL 491 - Readings in Biology - 0 to 4** M

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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.

**Attributes:** LS

**Restrictions:** Must be enrolled in one of the following Majors: Biological Sciences

**BIOL 492 - Biological Sci Colloquium I - 1** FS

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Seminar to consider recent advances in science. Not for Graduate Credit.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore, May not be enrolled as the following Levels: Graduate

**BIOL 492M - Biological Sci Colloquium II - 1** FS

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Seminar to consider recent advances in science. Not for graduate credit. Must be mentored by a faculty member.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level BIOL 492 Minimum Grade of P

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

**BIOL 493 - Special Problems in Biology - 0 to 4** FMS

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Research on biological problems. Two hours of 491 or 493 may count toward BIOL elective credit. Prerequisite: consent of instructor.

**Attributes:** LS

**BIOL 494 - Meth of Teach Bio in Sec Schls - 3**

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Methods in biology secondary education. Planning and presenting lectures and laboratories, education software, pertinent teaching materials, and discussion of controversial topics in the classroom. Requires a 2.5 G.P.A. in Biological Sciences and consent of instructor.

**Attributes:** DNSM, LS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

**BIOL 495A - Cl Top /Md Tec: Clin Biochemis - 1 to 12** FS

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Clinical topics in medical technology: (A) Clinical Biochemistry. Hospital based lecture in an accredited and affiliated school of medical technology. Not for Graduate credit. May be repeated to a maximum of 36 hours. Requires acceptance for clinical education into an affiliated school of medical technology and program director permission.

**Attributes:** LS

**BIOL 495B - CL Top /Md Tec: CI Microbiol - 1 to 12** FS

Clinical topics in Medical Technology: (B) Clinical Microbiology. Hospital based lecture and clinical laboratory in accredited and affiliated School of Medical Technology.

**Attributes:** LS

**BIOL 495C - CL Top /Md Tec: CL Hem/Coagula - 1 to 12** FS

Clinical Topics in Medical Technology: (C) Clinical Hematology/Coagulation. Hospital based lecture and clinical laboratory in accredited and affiliated School of Medical Technology. Not for Graduate credit. May be repeated to a maximum of 36 hours. Requires acceptance for clinical education into an affiliated school of medical technology and program director permission.

**Attributes:** LS

**BIOL 495D - Sp Md Tec:CL Immun/Srlogy/Immo - 1 to 12** FS

Clinical Topics in Medical Technology: (D) Clinical Immunology/Serology/Immunoematology. Hospital based lecture and clinical laboratory in accredited and affiliated school of medical technology. May be repeated to a maximum of 36 hours. Requires acceptance for clinical education into an affiliated school of medical technology and program director permission.

**Attributes:** LS

**BIOL 495E - CI Tpc: Urinalys/CL Microscopy - 1 to 12** FS

Clinical Topics in Medical Technology: (E) Urinalysis/Clinical Microscopy. Hospital based lecture and clinical laboratory in accredited and affiliated school of medical technology. Not for graduate credit. May be repeated to a maximum of 36 hours. Requires acceptance for clinical education into an affiliated school of medical technology and program director permission.

**Attributes:** LS

**BIOL 495F - Clin Tpc in Medical Technology - 1 to 12** FS

Special topics in Medical Technology. Hospital based lecture at an accredited and affiliated school of Medical Technology. May be repeated to a maximum of 36 hours. Not for graduate credit. Requires acceptance for clinical education into an affiliated school of medical technology and program director permission required.

**Attributes:** LS

**BIOL 496 - Rainforest Service Learning - 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.

**Attributes:** DNSM, EGC, II, LS

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

**BIOL 497 - Senior Assignment - 1** FS

Demonstration of proficiency in Biological Sciences. Not for Graduate credit.

**Prerequisites:** Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C AND Undergraduate level BIOL 220 Minimum Grade of C AND Undergraduate level BIOL 492 Minimum Grade of P

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Must be enrolled in one of the following Levels: Undergraduate

**BIOL 498 - Biology Internship - 1 to 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.

**Attributes:** BLS

**Restrictions:** Must be enrolled in one of the following Majors: Biological Sciences

**Civil Engineering (CE)**

**CE 198 - Civil Engineering Work Exp I - 0** FMS

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 199 - Engineering Co-op Education I - 0** FMS

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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 advisor.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 204 - Engineering Graphics & CAD - 3** FMS

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Hand and computer-assisted drawing; geometric constructions, orthographic projections and sketching; section views, auxiliary views, descriptive geometry; and CAD concepts and applications.

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**CE 206 - Civil Engineering Surveying - 0 to 2** FS

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Principles of plane surveying; introduction to the use of surveying equipment; and collection and reduction of field data.

**Prerequisites:** Undergraduate level CE 204  
Minimum Grade of D

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**CE 240 - Statics - 3** FMS

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Static equilibrium conditions for forces and moment systems; first and second moments of lines and areas. Friction. Shear and moment diagrams.

**Prerequisites:** Undergraduate level PHYS 151  
Minimum Grade of D OR Undergraduate level PHYS 141  
Minimum Grade of D

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**CE 242 - Mechanics of Solids - 3** FMS

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Elastic deformations and stresses in two-dimensional

structural elements caused by axial, bending, shear, and torsion loads. Stress-strain relationships, Mohr's circle; and elementary design concepts.

**Prerequisites:** Undergraduate level CE 240  
Minimum Grade of D

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**CE 298 - Civil Engineering Exp II - 0** FMS

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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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level CE 198  
Minimum Grade of S

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 299 - Engineering Co-op Educ II - 0** FMS

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Supervised work experience with agency, firm, or organization which employs engineers. Second period of five year academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 315 - Fluid Mechanics - 3** FS

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Basic principles of conservation of mass; momentum and energy in fluid systems; dimensional analysis; open-channel flow; incompressible flow; and boundary layers. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Mechanical Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**CE 330 - Engineering Materials - 2** FS

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Physical and chemical properties of engineering materials (metals, woods, asphalt, and cement

concrete). Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of D

**Corequisites:** CE330L

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **CE 330L - Engineering Materials Lab - 1** FS

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. Additional Prerequisite: Major/School Restriction.

**Corequisites:** CE330

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering

### **CE 342 - Structural Engineering I - 3** FS

Structural loads; kinematic instability; beam, truss, and frame analysis; computerized structural analysis; introduction to design of steel structures; and code requirements. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **CE 343 - Structural Engineering II - 3** FS

Introduction to indeterminate structures. Virtual work; approximate methods of analysis; force method; introduction to design of reinforced concrete structures; and code requirements. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 330  
Minimum Grade of D (concurrency allowed) AND Undergraduate level CE 342 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be

enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **CE 354 - Geotechnical Engineering - 3** F

Introduction to geotechnical engineering. Basic geological principles for engineering design; soil classification, water in soils, effective stress, shear strength and soil compressibility. Major/School Restriction.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of D (concurrency allowed) AND Undergraduate level CE 315 Minimum Grade of D (concurrency allowed)

**Corequisites:** CE354L

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **CE 354L - Geotechnical Engineering Lab - 1** FS

Laboratory and field experiments in soil mechanics. Additional Prerequisite: Major/School Restriction.

**Corequisites:** CE354

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering

### **CE 376 - Transportation - 3** MS

Planning and design of air, highway, rail, water, and pipeline transportation facilities (geometric and structural). Additional Prerequisite: Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 206  
Minimum Grade of D AND Undergraduate level ME 262 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **CE 380 - Environmental Engineering - 3** F

Application of principles of chemistry, physics, biology, and mathematics to engineered systems for water purification, wastewater treatment, air pollution control, and solid waste management. Additional Prerequisite: Major/School Restriction.

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**CE 398 - Civil Engineering Work Exp III - 0** FMS

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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level CE 298 Minimum Grade of S

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 399 - Engineering Co-op Educ III - 0** FMS

Supervised work experience with agency, firm, or organization which employs engineers. Third work period of five year academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CE 415L - Applied Fluid Mechanics Lab - 1** FS

Laboratory experiments involving flow of water in pipes, open channels, and other water resources and environmental engineering systems. Not for graduate credit. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 315 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**CE 416 - Engineering Hydrology - 3**

Hydrological processes and their relationship to design of structures for control and management of water resources, rainfall-runoff relationship, probability and frequency analysis, surface water hydrology. Additional Prerequisite: Major/School

Restriction.

**Prerequisites:** Undergraduate level CE 315 Minimum Grade of D (concurrency allowed) AND Undergraduate level CE 354 Minimum Grade of D (concurrency allowed) AND Undergraduate level STAT 380 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 435 - Pavement Design - 3**

Analysis and design for highways and airports. Factors affecting pavement performance and code requirements. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 330 Minimum Grade of D AND Undergraduate level CE 343 Minimum Grade of D AND Undergraduate level CE 354 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**CE 441 - Design of Timber Structures - 3**

Design and analysis of timber structures and timber design code. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 343 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: SIU Coop Grad Pgms - Doctoral, Doctoral Candidate, Master's Candidate, Junior, Senior with Degree, Senior

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**CE 443 - Design of Masonry Structures - 3**

Design and analysis of masonry structures and masonry design code. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 343 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the

following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 445 - Advanced Structural Analysis - 3** <sup>F</sup>

Analysis of indeterminate two- and three-dimensional trusses and frames, with emphasis on matrix methods. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 343 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 446 - Advanced Concrete Design - 3** <sup>S</sup>

Advanced topics in reinforced concrete design, design of pre-stressed concrete beams, and code design requirements. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 343 Minimum Grade of D (concurrency allowed) AND Undergraduate level CE 445 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 449 - Advanced Steel Design - 3** <sup>M</sup>

Plastic analysis of steel structures. LRFD design. Stability theory applied to structural design. Composite beams and columns. Introduction to seismic design. Code requirements. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 342 Minimum Grade of D AND Undergraduate level CE 343 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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**CE 455 - Foundation Design - 3** <sup>S</sup>

Design of foundations, retaining walls, cofferdams, and earth embankments; formulation of design problem statements and specifications; and estimates of bearing capacity, settlements, and slope stability values. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 354 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 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. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 354 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 458 - Geological & Geotech Exploratr - 3**

Introduces students to the concepts behind testing rocks, soils, and profiles; geophysical testing; and planning a geotechnical investigation and testing program. Prerequisites: upper-division civil engineering standing, 354 with a minimum grade of D or higher, or consent of instructor or graduate standing. Major/School Restriction.

**Prerequisites:** CE 354 with a minimum grade of D or consent of instructor or graduate standing.

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CE 459 - Soil Improvement - 3**

Instruction will include introduction to problematic geomaterials, geotechnical failures, soil improvement methods, design considerations, construction and quality control/assurance,



densification and replacement techniques.

**Prerequisites:** upper-division civil engineering standing, 354 with a minimum grade of D or higher, or consent of instructor or graduate standing.  
Major/School Restriction.

**Prerequisites:** CE 354 with minimum grade of D or consent of instructor or Graduate Standing.

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CE 460 - Municipal Infrac. Design - 3**

FS

Municipal infrastructure analysis and design; water distribution networks; wastewater collection; street systems; and engineering processes of municipal designs. Additional Prerequisite: Major/School Restriction..

**Prerequisites:** Undergraduate level CE 315  
Minimum Grade of D AND Undergraduate level CE 376 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CE 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. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 376  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering

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### **CE 474 - Comp Simulatn:Traffic Engineer - 3**

Highway capacity software (HCS), signal timing software (SYNCHRO), and micro-simulation software (TSIS). Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 376  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the

following Majors: Civil Engineering

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### **CE 475 - Transportation Planning - 3**

Covers the basis for transportation planning process; modeling transportation demand and supply; project evaluation for decision making, and transportation sustainability. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 376  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering

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### **CE 476 - Traffic Studies - 3**

Acquisition, evaluation, statistical analysis and reporting of traffic engineering data used to design, evaluate and operate transportation systems. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 376  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering

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### **CE 478 - Trans Eng - Facilities Design - 3**

Transportation facilities geometric design and structural design of load-carrying elements; and human factors as related to physical design criteria.

**Prerequisites:** Undergraduate level CE 473  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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### **CE 480 - Environmental Analysis - 3**

Analytical methods for examining water and wastewater. Sources of parameters, laboratory methods and limitations, data analysis, and correlation of parameters with environmental effects. Lectures and laboratory. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 380  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be

enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CE 486 - Wastewater Treatment Design - 3**

Design of wastewater treatment systems including: preliminary, primary, and secondary treatment processes and biosolids treatment and disposal. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 380 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CE 487 - Water Treatment Design - 3**

Design of potable water treatment processes with emphasis on chemical and physical unit operation. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 380 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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### **CE 488 - Hazardous Waste Management - 3**

Major aspects of managing hazardous waste, including regulation, pollution prevention, treatment, disposal, spill clean-up, and site remediation. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 380 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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### **CE 491 - Civil Engineering Project - 1 to 4** <sup>s</sup>

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. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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### **CE 492 - Topics in Civil Engineering - 1 to 5** <sup>s</sup>

Selected topics of special interest. May be repeated to a maximum of 6 hours provided no topic is repeated. Additional Prerequisite: Major/School Restriction.

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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### **CE 493 - Engineering Design - 3** <sup>FS</sup>

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. Additional Prerequisite: Major/School Restriction.

**Prerequisites:** Undergraduate level CE 343 Minimum Grade of D AND Undergraduate level CE 354 Minimum Grade of D AND Undergraduate level CE 376 Minimum Grade of D AND Undergraduate level CE 380 Minimum Grade of D AND Undergraduate level CE 460 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Civil Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

## **Chemistry (CHEM)**

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### **CHEM 111 - 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.

**Attributes:** BPS, INSM

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### **CHEM 113 - Introduction to Chemistry - 3** <sup>FMS</sup>

Preparation for University Chemistry. Mathematical techniques, problem solving, chemical terms, concepts, and laws. For students with inadequate preparation in high school chemistry. Three lecture hours and one problem session per week. Note: this course is offered through the Office of Instructional Services. For further information, please consult that office in Peck Building, Room 1405.

**Attributes:** PS

**Prerequisites:** Undergraduate level AD 095 Minimum Grade of D OR ACT Math 19 OR PLCMNTEST-AD095 07 OR Undergraduate level MATH 120 Minimum Grade of D OR Undergraduate level MATH 120E Minimum Grade of D OR MATH TEST SCORE 24.5

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**CHEM 120A - Gen, Orgc & Biol Chemistry - 3** FMS

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Not for Chemistry majors. General chemistry. Three lecture hours and one laboratory per week. Must be taken in sequence. IAI Course No. P1 902.

**Attributes:** BPS, INSM

**Corequisites:** CHEM124A

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**CHEM 120B - Gen, Org & Biol Chemistry - 3** FMS

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Primarily for students planning careers in Nursing and Allied Health professions. Not for Chemistry majors. Organic and biological Chemistry. Three lecture hours and one laboratory per week. Must be taken in sequence.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level CHEM 120A Minimum Grade of D

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**CHEM 120N - Nurs Princ of Gen, Org & Biol - 4**

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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.

**Attributes:** BPS, DNSM, INSM

**Corequisites:** CHEM124N

**Restrictions:** May not be enrolled as one of the following Majors: Chemistry

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**CHEM 121A - General Chemistry - 4** FMS

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University-level modern chemistry for science and engineering students, atomic structure, molecular bonding, structure, stoichiometry, chemical change, equilibrium, and qualitative analysis. Four lecture hours per week. Must be taken in sequence. Prerequisites: 1) High school chemistry and placement by ACT Math score, 2) Placement by chemistry readiness exam, or 3) Successful completion of 113 and Math 120 or higher Math course.

**Attributes:** BPS, DNSM, INSM

**Prerequisites:** ACT Math 23 OR Chemistry Readiness Exam Score 39 OR MATH TEST SCORE 28 OR (Undergraduate level MATH 120 Minimum Grade of C AND Undergraduate level CHEM 113 Minimum Grade of C) OR (Undergraduate level MATH 120E Minimum Grade of C AND Undergraduate level CHEM 113 Minimum Grade of C)

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**CHEM 121B - General Chemistry - 4** FMS

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University-level modern chemistry for science and engineering students. Atomic structure, molecular bonding, structure, stoichiometry, chemical change, equilibrium, and qualitative analysis. Four lecture hours per week. Must be taken in sequence. IAI Course No. P1.902.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level CHEM 121A Minimum Grade of C

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**CHEM 124A - Gen, Org & Bio Chemistry Lab - 1** FMS

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Safety practices and basic techniques. Topics complement CHEM 120. Not for Chemistry majors. General and organic Chemistry. Three laboratory hours per week. Must be taken in sequence. This course replaces CHEM 120A-Lab portion.

**Attributes:** BPS, EL, INSM, LNSM

**Corequisites:** CHEM120A

**CHEM 124B - Gen, Org & Biol Chemistry Lab - 1** FMS

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Safety practices and basic techniques. Topics complement CHEM 120. Not for Chemistry majors. (A)General and Organic Chemistry. Three laboratory hours per week. Must be taken in sequence. Replaces CHEM 120B-Lab portion.

**Attributes:** BPS, DNSM, EL, LNSM  
**Prerequisites:** Undergraduate level CHEM 124A Minimum Grade of D  
**Corequisites:** CHEM120B

**CHEM 124N - Nurs Princ of Gen, Org & Biol - 1**

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Not for Chemistry majors. Safety practices and basic techniques. Topics complement CHEM120N. One - three hour lab per week.

**Attributes:** BPS, DNSM, EL, INSM, LNSM  
**Corequisites:** CHEM120N  
**Restrictions:** May not be enrolled as one of the following Majors: Chemistry

**CHEM 125A - General Chemistry Lab - 1** FMS

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Laboratory safety practices and techniques; qualitative and quantitative analysis; chemical change and equilibria. One three-hour laboratory per week. IAI course NO. P1 902L.

**Attributes:** BPS, DNSM, EL, LNSM  
**Corequisites:** CHEM121A

**CHEM 125B - General Chemistry Laboratory - 1** FMS

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Laboratory safety practices, techniques, qualitative and quantitative analysis, chemical change and equilibria. One - three hour laboratory per week.

**Attributes:** BPS, DNSM, EL, LNSM  
**Corequisites:** CHEM121B

**CHEM 131 - Engineering Chemistry - 4** FS

---

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.

**Attributes:** BPS, DNSM, INSM  
**Prerequisites:** ACT Math 23 OR Chemistry Readiness Exam Score 39 OR (Undergraduate level CHEM 113 Minimum Grade of C AND Undergraduate level MATH 120 Minimum Grade of C) OR (Undergraduate level CHEM 113 Minimum Grade of C AND Undergraduate level MATH 120E Minimum Grade of C)

**CHEM 135 - Engineering Chemistry Lab - 1** FS

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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.

**Attributes:** BPS, DNSM, EL, INSM, LNSM  
**Corequisites:** CHEM131

**CHEM 196 - Chemistry Leadership - 0** FS

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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:** Undergraduate level CHEM 121A Minimum Grade of C AND Undergraduate level CHEM 121B Minimum Grade of C

**CHEM 241A - Organic Chemistry - 3** FMS

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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.

**Attributes:** BPS, DNSM  
**Prerequisites:** Undergraduate level CHEM 121B Minimum Grade of D

**CHEM 241B - Organic Chemistry - 3** FMS

---

Structural types of organic compounds correlated with chemical and physical properties; bonding, reaction dynamics, reaction types, stereochemistry,

functional groups, and spectroscopic methods. Three lecture hours per week. Must be taken in sequence.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level CHEM 241A  
Minimum Grade of D

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**CHEM 245 - Organic Chemistry Lab - 2** MS

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Organic synthesis. Techniques for determining physical and chemical properties of organic systems. Two - three hour laboratory periods per week. Prerequisite: CHEM 241A and CHEM 241B with minimum grade of D (concurrent enrollment allowed in CHEM 241B).

**Attributes:** BPS, EL, LNSM

**Prerequisites:** Undergraduate level CHEM 241A  
Minimum Grade of D AND Undergraduate level CHEM 241B Minimum Grade of D (concurrency allowed)

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**CHEM 296 - Intro to Chemical Problems - 0 to 1** FMS

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Faculty supervised introduction to elementary chemical problems. Written report at end of semester required. May be repeated to maximum of 3 hours.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 121B  
Minimum Grade of C AND Undergraduate level CHEM 125B Minimum Grade of C

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**CHEM 300 - Professionalism in Science - 1** FM

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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.

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry

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**CHEM 331 - Quantitative Analytical Chem - 3** FM

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Theory and methods of chemical analysis. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 121B  
Minimum Grade of D

**Corequisites:** CHEM335

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**CHEM 335 - Quantitative Analytical Chem - 1** FM

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Laboratory experience in gravimetric, volumetric, chromatographic, and instrumental analytical techniques. One - three hour laboratory per week.

**Attributes:** EL, LNSM, PS

**Prerequisites:** Undergraduate level CHEM 125B  
Minimum Grade of D

**Corequisites:** CHEM331

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**CHEM 345 - Adv Organic Chemistry Lab - 2** S

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Identification of organic compounds and advanced synthetic techniques. Two laboratory periods per week.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 241B  
Minimum Grade of D AND Undergraduate level CHEM 245 Minimum Grade of D

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**CHEM 351 - Basic Biochemistry I - 3** FMS

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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. Not for chemistry majors.

**Attributes:** BLS

**Prerequisites:** Undergraduate level CHEM 241B  
Minimum Grade of C

**Restrictions:** May not be enrolled as one of the following Majors: Chemistry

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**CHEM 352 - Basic Biochemistry 2 - 3** FMS

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Basic Biochemistry 2 - 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. Not for chemistry majors.

**Attributes:** BLS

**Prerequisites:** Undergraduate level CHEM 351

Minimum Grade of C

**Restrictions:** May not be enrolled as one of the following Majors: Chemistry

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**CHEM 361A - Physical Chemistry - 3** F

Mathematical models of chemical behavior and its underlying causes. Experimental foundations of models, thermodynamics, statistical mechanics, kinetics, quantum mechanics, and spectroscopy with applications. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Complete MATH 152, CHEM 121B, CHEM 300 (may be concurrent), and PHYS 132, 132L or PHYS 152.

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**CHEM 361B - Physical Chemistry - 3** S

Mathematical models of chemical behavior and its underlying causes. Experimental foundations of models, thermodynamics, statistical mechanics, kinetics, quantum mechanics, and spectroscopy with applications. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 361A  
Minimum Grade of D

---

**CHEM 365A - Physical Chemistry Lab - 2** F

Investigations of physical chemical phenomena. Emphasis on computer-aided data analysis, rigorous preparation of written reports, and introduction to chemical literature. One - four hour laboratory period per week. Prerequisites: CHEM 300 with minimum grade of D or concurrent enrollment.

**Attributes:** EL, LNSM, PS

**Corequisites:** CHEM361A

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**CHEM 365B - Physical Chemistry Lab - 1** S

Investigations of physical chemical phenomena. Emphasis on computer-aided data analysis, rigorous preparation of written reports, and introduction to chemical literature. One - four hour laboratory period per week.

**Attributes:** EL, LNSM, PS

**Corequisites:** CHEM361B

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**CHEM 396 - Introduction to Research - 2** FMS

Investigation of simple research problems in chemistry directed by faculty member. Students are required to submit a written report at end of each semester in which they are enrolled.

**Attributes:** PS

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**CHEM 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:** Undergraduate level CHEM 451A  
Minimum Grade of C OR Graduate level CHEM 451A  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry

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**CHEM 411 - Inorganic Chemistry - 3** F

Modern inorganic chemistry including: bonding theory; symmetry and group theory; stereochemistry of complexions; reaction mechanisms; main group chemistry; transition metal chemistry; and organometallic chemistry. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 361A  
Minimum Grade of D

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**CHEM 415 - Inorganic Chemistry Lab - 2** F

Synthesis of inorganic compounds. Vacuum and controlled atmosphere techniques. Two - three hour labs per week. Not for graduate credit.

**Attributes:** EL, PS

**Prerequisites:** Undergraduate level CHEM 411  
Minimum Grade of D

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**CHEM 419 - Special Top in Inorganic Chem - 1 to 3**

Selected advanced topics. May be repeated up to 6 hours so long as no topic is repeated.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 361A

Minimum Grade of D

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**CHEM 431 - Instrumental Analysis - 3**

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S

Theory and methods of modern instrumental analytical techniques and instrumentation. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 331 Minimum Grade of D AND (Undergraduate level CHEM 361A Minimum Grade of D OR Undergraduate level CHEM 461A Minimum Grade of D)

**Corequisites:** CHEM435

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**CHEM 432 - Forensic Chemistry - 3**

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Forensic chemical and instrumental analysis methods for trace evidence including drugs of abuse, fibers, explosives, coatings, and polymers.

**Prerequisites:** Undergraduate level CHEM 331 Minimum Grade of D AND Undergraduate level CHEM 335 Minimum Grade of D AND Undergraduate level CHEM 361A Minimum Grade of D (concurrency allowed)

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**CHEM 435 - Instrumental Analysis Lab - 1**

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S

Laboratory practice in spectroscopic and other instrumental techniques. One - four hour laboratory per week.

**Attributes:** EL, LNSM, PS

**Corequisites:** CHEM431

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**CHEM 439 - Adv. Topics in Analytical Chem - 1 to 3**

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Selected advanced topics. May be repeated for up to 6 hours as long as no topic is repeated. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 331 Minimum Grade of D AND Undergraduate level CHEM 335 Minimum Grade of D AND Undergraduate level CHEM 361A Minimum Grade of D

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**CHEM 441 - Physical Organic Chemistry - 3**

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Chemical equilibria, kinetics, and structure-reactivity relationships as methods for determining mechanisms of organic reactions.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D AND Undergraduate level CHEM 361B Minimum Grade of D

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**CHEM 444 - Organic Reaction - 3**

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Emphasis on mono-functional compounds. Topics not covered in elementary courses. Three lecture hours per week.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D

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**CHEM 445 - NMR Oper, Exper Design & Analy - 2**

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F

Current practices in the operation, experimental design, and analysis of modern NMR spectroscopy.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D AND Undergraduate level CHEM 361B Minimum Grade of D

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**CHEM 446 - Organic Spectral Analysis - 1**

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F

Use of modern spectral techniques to analyze the structure of organic compounds. Various types of spectroscopy along with computer techniques will be employed. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D AND Undergraduate level CHEM 361B Minimum Grade of D

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**CHEM 449 - Special Topics in Organic Chem - 1 to 3**

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Selected advanced topics. May be repeated for up to 6 hours so long as no topic is repeated. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D AND Undergraduate level CHEM 361A Minimum Grade of D

### **CHEM 451A - Biochemistry - 3**

FMS

Life processes at the molecular level. Structure and function of biomolecules.

**Attributes:** BLS, DNSM

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of C AND Undergraduate level CHEM 300 Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry, Chemistry

### **CHEM 451B - Biochemistry - 3**

FMS

Life processes at molecular level. Intermediary metabolism, transmission of hereditary information. Must be taken in sequence. Prerequisite: 451a with grade of C or better.

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level CHEM 451A Minimum Grade of C

### **CHEM 451C - Biochemistry - 3**

F

Life processes at molecular level. Advanced topics including proteomics, genomics, cellular and molecular techniques, bioanalytical, biophysical and bioorganic chemistry. Must be taken in sequence. Prerequisite: 451b with grade of C or better.

**Prerequisites:** Undergraduate level CHEM 451B Minimum Grade of C OR Graduate level CHEM 451B Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry

### **CHEM 455 - Experimental Mthds in Biochem - 2**

S

Current practice in enzyme isolation and assessment. Microcomputer-assisted data treatment, graphics, statistical methods, and data acquisition. Four laboratory hours per week.

**Attributes:** EL, LNSM, LS

**Prerequisites:** Undergraduate level CHEM 241B Minimum Grade of D

**Corequisites:** CHEM451B

### **CHEM 459 - Special Topics in Biochemistry - 1 to 3**

Selected topics such as enzymology, metabolism, and nucleic acids. May be repeated for a total of 6 hours provided no topic is repeated.

**Attributes:** LS

**Prerequisites:** Undergraduate level CHEM 361A Minimum Grade of D

### **CHEM 461A - Biophysical Chemistry 1 - 3**

F

Examination of biophysical chemistry principles of thermodynamics and kinetics and the understanding of biological systems using physical chemistry.

**Prerequisites:** (Undergraduate level PHYS 131B Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C) AND (Undergraduate level CHEM 451B Minimum Grade of C OR Graduate level CHEM 451B Minimum Grade of C) AND (Undergraduate level MATH 145 Minimum Grade of C OR Undergraduate level MATH 150 Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry

### **CHEM 461B - Biophysical Chemistry II - 3**

S

Course will examine the biophysical chemistry principles of quantum mechanics and spectroscopy and the understanding of biological systems using physical chemistry.

**Prerequisites:** Undergraduate level CHEM 461A Minimum Grade of C OR Graduate level CHEM 461A Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry

### **CHEM 465 - Biophysical Chemistry Lab - 2**

F

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: CHEM 461A with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level CHEM 461A Minimum Grade of C (concurrency allowed) OR Graduate level CHEM 461A Minimum Grade of C (concurrency allowed)



### **CHEM 469 - Special Tpcs in Physical Chem - 1 to 3**

Selected advanced topics. May be repeated for up to 6 hours provided no topic is repeated. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 361B  
Minimum Grade of D

### **CHEM 471 - Principles of Toxicology - 3**

Chemical and biological effects of toxic substances in living organisms at the molecular and cellular level. Topics include: routes of entry, mechanism of action, effects, and antidotes. Cross-listed with ENVS 531.

**Attributes:** BLS, DNSM

**Prerequisites:** Undergraduate level CHEM 120A  
Minimum Grade of D AND Undergraduate level CHEM 120B  
Minimum Grade of D AND Undergraduate level BIOL 150  
Minimum Grade of D  
**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, Junior, Sophomore

### **CHEM 479 - Special Tpcs in Env Chemistry - 1 to 3**

Selected advanced topics. May be repeated to a maximum of 6 hours provided no topic is repeated. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level CHEM 241B  
Minimum Grade of D

### **CHEM 494 - Mthds of Tch Chem in Seco Schl - 3**

Current teaching and resource materials. Ways to teach different chemical topics, problem solving techniques, and societal issues; preparing for laboratory activities; and safety concerns. Not for graduate credit. Requires consent of instructor.

**Attributes:** PS

### **CHEM 496 - Chemical Problems - 2**

Research problems directed by faculty member. May be repeated up to a maximum of 4 hours. Students

are required to submit written report at end of each semester in which they are enrolled. Not for graduate credit.

**Attributes:** PS

### **CHEM 499 - Senior Assignment - 0**

Capstone exam, review of professional ethics and communications, and presentation on research or literature topic. Required for graduation.

**Prerequisites:** Undergraduate level CHEM 300  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Chemistry, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

## **Chinese (CHIN)**

### **CHIN 101 - Elementary Chinese I - 4**

Reading, writing, listening, comprehension, and speaking in Chinese, within context of Chinese culture. Lab included.

**Attributes:** BICS, FL, HUM, SKFL

### **CHIN 102 - Elementary Chinese II - 4**

Continuation of CHIN 101. Lab included.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL

**Prerequisites:** Undergraduate level CHIN 101  
Minimum Grade of D

### **CHIN 201 - Intermediate Chinese I - 4**

Further comprehension of spoken language and oral expression, reading modern prose selections, and writing simple compositions. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level CHIN 102  
Minimum Grade of D

### **CHIN 202 - Intermediate Chinese II - 4**

Continuation of CHIN 201. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level CHIN 201

Minimum Grade of D

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### **CHIN 301 - Advanced Chinese I - 4**

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In-depth grammar review. Composition and conversation. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level CHIN 202  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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### **CHIN 302 - Advanced Chinese II - 4**

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in-depth grammar review. Composition and conversation. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level CHIN 301  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

## **Curriculum and Instruction (CI)**

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### **CI 200 - Introduction to Education - 2**

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Assessment of teaching as a career through personal observation and discussion of schools, teacher's roles, and teaching as a profession. Field experience required.

**Prerequisites:** Complete 12 hours of coursework with a GPA of 2.5 or better.

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### **CI 301 - Understanding the Pre-Primary - 3**

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Characteristics of infants, toddlers, and young children (birth to age 6); study and observation in formal and informal settings.

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### **CI 307 - Mid Lev Phil, Organ & Curr - 3**

---

This course explores middle school topics including the philosophy, curriculum and structure of middle schools, as well as instructional methods for the middle level learner. Requires admission to Elementary Education Program. Prerequisites: EPFR 320 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level EPFR 320  
Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Elementary Education, Secondary Education

---

### **CI 311 - Elem/Mid Lev Fld I 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. Requires admission to Elementary Education Program.

**Restrictions:** Must be enrolled in one of the following Majors: Elementary Education, Secondary Education

---

### **CI 312 - Elem/Mid Lev Fld II Exper - 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.

**Prerequisites:** Undergraduate level CI 311  
Minimum Grade of D

---

### **CI 314 - Elementary/Middle Level Mthds - 1 to 3**

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Current educational theory and practice; processes and underpinnings of teaching and learning in elementary education. Repeatable to 3 credit hours. Requires consent of Instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Elementary Education

---

### **CI 315A - Mthds of Teaching in Secondary - 2**

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Teaching skills for secondary students focusing on effective teaching research and its application to the secondary classroom. Prerequisite: consent of advisor.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C AND Undergraduate level EPFR 320  
Minimum Grade of D (concurrency)

allowed) AND Undergraduate level EPFR 315  
Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed

---

### **CI 315B - Mthds for Teaching Secondary - 2** <sup>s</sup>

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Teaching skills for secondary students focusing on participant observation skills, model teaching, discipline techniques, content teaching.

**Prerequisites:** Undergraduate level CI 315A  
Minimum Grade of D OR Undergraduate level HED 370 Minimum Grade of D

---

### **CI 316 - Early Childhood Mthds in Class - 1**

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Integration of methods and classroom processes in classroom settings. Includes theory, research, and practice related to professional teaching and learning of young children.

**Corequisites:** CI301, SPE440

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

---

### **CI 317 - Pre-Kindergarten Methods - 3**

---

Instructional strategies appropriate for preschool children, with emphasis on interrelatedness of sensorimotor, conceptual, and social development.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D

---

### **CI 323 - Literacy Dev. - Birth - Kinder - 3**

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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.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D

---

### **CI 337 - Literacy at Elem/Middle Levels - 1 to 3**

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Application of theory and pedagogy of elementary and middle level literacy and content-areas methods: standards, strategies, instructional materials, assessments and technology. Requires admission to

the Elementary Education program or consent of program director.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

---

### **CI 338 - Assess & Instr at Elem/Middle - 1 to 3**

---

Administration of literacy assessments, data analysis and strategies implementation to meet the literacy needs of elementary/middle level learners. Requires admission to the Elementary Education program or consent of program director.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

---

### **CI 343 - Social Studies at Elem/Middle - 3**

---

Application of theory and pedagogy of elementary and middle level social studies methods: standards, strategies, instructional materials, assessments and technology. Requires admission to the Elementary or Early Childhood Education program or consent of program director.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

---

### **CI 352A - Student Teaching - Art - 5 to 12**

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Practice teaching in a secondary school. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100 Minimum Grade of C

---

### **CI 352B - Sndary Student Teaching - Biol - 6 to 12** <sup>s</sup>

---

Practice teaching in the secondary schools. Requires registration by secondary education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100 Minimum Grade of C

---

**CI 352C - Sndary Student Teaching - Busi - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352D - Sndary Student Teaching - Chem - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352E - Secondary Student Teaching - 6 to 12**

---

Practice teaching in the secondary schools.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

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**CI 352F - Sndary Student Teaching: Engl - 6 to 12**<sup>s</sup>

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Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352G - Sndary Student Teaching: FL - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352H - Sec Student Teach:Earth&Space - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352I - Sndary Student Teaching: Geog - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

---

**CI 352J - Sndary Student Teaching:Pol Sc - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

---

**CI 352K - Sndary Student Teaching: Hlth - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program advisor.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED 100  
Minimum Grade of C

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**CI 352L - Sndary Student Teaching: Hist - 6 to 12**<sup>s</sup>

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Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 352M - Secondary Student Teaching - 6 to 12**

---

Practice in the secondary schools.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

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**CI 352N - Sndary Student Teaching: Math - 6 to 12** <sup>S</sup>

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 352O - Student Teaching - Music - 5 to 12** <sup>S</sup>

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 352P - Sndary Student Teaching: PE - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program advisor.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 352Q - Sndary Student Teaching: Phys - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200

Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 352T - Sndary Student Teaching: Theater - 6 to 12**

---

Practice teaching in the secondary schools. Requires registration by Secondary Education program adviser.

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D OR Undergraduate level CIED  
100 Minimum Grade of C

---

**CI 388 - C&I 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.

**Attributes:** COOP

**Prerequisites:** Minimum cumulative GPA of 2.25.

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**CI 398 - C&I Intership - 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.

**Attributes:** COOP

**Prerequisites:** Minimum cumulative GPA of 2.25.

---

**CI 407 - Th Middle & Junior High School - 3**

---

Theoretical background and evolving trends in middle and junior high education; curriculum review; learning theories; methods of practice; management techniques.

---

**CI 410 - Principles of Early Chhd Educ - 3**

---

Examination of national and local programs in early childhood education with overview of issues, trends, and research.

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**CI 411 - Elem/Mid Lev Fld III Exper - 1**

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Current educational theory and practice as they relate to field experience: two full-day clinical placements in elementary/middle level classrooms

with extended experiences and responsibilities.  
Prerequisites: CI 311 and CI 312 with minimum grade of D or concurrent enrollment.

**Prerequisites:** Undergraduate level CI 311  
Minimum Grade of D (concurrency allowed) AND  
Undergraduate level CI 312 Minimum Grade of D  
(concurrency allowed)

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### CI 413 - Literature Elem/Middle Lvl - 3

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Surveys literature appropriate for elementary through middle level while focusing on multiple genres, curriculum integration and analysis of literary qualities. Not for Graduate credit.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed, Elementary Education

---

### CI 414 - Teaching Math in Early Childhd - 3

---

Mathematical concept development for Pre-K through Grade 3 teachers, emphasizing developmentally appropriate methodology and instructional strategies; and employing problem solving and inquiry-based learning.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D AND Undergraduate level CI 317 Minimum Grade of D AND Undergraduate level CI 323 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed, Elementary Education

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### CI 415 - Mathematics at the Elem Level - 3

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Application of theory and pedagogy of elementary mathematics methods: standards, strategies, instructional materials, and assessments and technology.

**Corequisites:** CI307, CI312, CI442

**Restrictions:** Must be enrolled in one of the following Majors: Elementary Education

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### CI 416 - Infant & Toddler Dev & Educ - 3

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Study of current theories, knowledge, and practice concerning the growth and development of infants and toddlers.

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### CI 421 - Child, Fam & Comm Rltshps - 3

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Parent involvement strategies: insight from community agency personnel pertaining to goals of early childhood and elementary programs.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D OR Undergraduate level CI 410  
Minimum Grade of D

---

### CI 422 - Hlth & Nutr for the Young Chld - 3

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Nutrition principles related to development of the young child, including food service selection and integration of nutrition concepts into early childhood curriculum.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D AND Undergraduate level CI 410 Minimum Grade of D

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### CI 424 - Literacy Strategies K-3 - 3

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Literacy instructional strategies to meet the needs of diverse learners in K through grade three. Application of theory and pedagogy during field placement.

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### CI 426 - Ed Assess of Young Children - 3

---

Formal and informal assessment strategies for teachers of young children. Includes individuals and group assessment techniques for children birth through Grade 3. Not for graduate credit.

**Prerequisites:** Undergraduate level CI 301  
Minimum Grade of D AND Undergraduate level CI 317 Minimum Grade of D

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### CI 433A - Sel. Topics in CI: Curriculum - 3

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Selected topics: Curriculum. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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### CI 433B - Sel. Topics in CI: Lang Arts - 3

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Selected topics: Language arts. Each segment

carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433C - Sel Topics in CI: Science - 3**

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Selected topics: Science. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433D - Sel Topics in CI: Reading - 3**

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Selected topics: Reading. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433E - Sel Topics in CI: Social Sci - 3**

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Selected topics: Social studies. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433F - Sel Topics in CI: Math - 3**

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Selected topics: Mathematics. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 433G - Sel Topics in CI: Early Chldhd - 3**

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Selected topics: Early childhood. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433H - Sel Topics in CI: Elem Ed - 3**

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Selected topics: Elementary education. Each segment carries 3 credit hours and each segment may be repeated for up to a maximum of 9 hours. Requires consent of instructor.

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**CI 433I - Sel Topc: Mid School Educ - 3**

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Selected topics: Middle School Education. Each segment carries 3 credit hours and each segment can be repeated to a maximum of 9 hours. Requires consent of Instructor.

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**CI 433J - Sel Tpcs: Secondary Ed - 3**

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Selected topics: Secondary education. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 433K - Sel Tpcs in CI: Comm Coll - 3**

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Selected topics: Community college. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 433L - Sel Tpcs in CI: Adult Educ - 3**

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Selected topics: Adult education. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 433M - Sel Tpcs in CI: Env Education - 3**

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Selected topics: Environmental education. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 433N - Sel Tpcs in CI: Organ & Superv - 3**

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Selected topics: Organization and supervision. Each segment carries 3 credit hours and each segment may be repeated to a maximum of 9 hours. Requires consent of instructor.

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**CI 434 - Teachg Sci & Soc Stud Early Ed - 3**

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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.

**Prerequisites:** Undergraduate level CI 317

Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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**CI 440 - Adolescent Literacy - 3**

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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.

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**CI 442 - Science at Elem & Middle Lvl - 3**

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Application of theory and pedagogy of elementary and middle level science methods; standards, strategies, instructional materials, assessments and technology. Not for Graduate credit.

**Corequisites:** CI307, CI312, CI415

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

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**CI 447 - Reading for Speech Lang Path - 3**

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Theories and models of reading as related to instruction; connections between reading and speech difficulties; and ways to help children overcome difficulties.

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**CI 450 - Early Chhd Student Teaching - 3 to 12**

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Practice of teaching at early childhood level. Not for graduate credit. Requires registration by early childhood program adviser only.

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**CI 451A - Elem Student Teaching - 3 to 10**

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Application of theory to practice of teaching. Not for graduate credit. Requires registration by elementary or early childhood education program adviser.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

---

**CI 451B - Elem Student Teaching: Art - 3 to 6**

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Practice of teaching art in elementary school. Not

for graduate credit. Requires registration by elementary education program adviser.

**Restrictions:** Must be enrolled in one of the following Majors: Early Chhd/Elem Ed,Elementary Education

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**CI 451C - Elem Student Teaching: Music - 3 to 6** <sup>FS</sup>

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Practice of teaching music in elementary school. Not for graduate credit. Requires registration by education program adviser.

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**CI 451D - Elem Student Teaching: PE - 3 to 12**

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Practice of teaching physical education in the elementary school. Not for graduate credit. Registration by permit only.

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**CI 452 - Curr Integration & Change - 2**

---

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. Registration by education program adviser.

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**CI 471 - Teaching in Multicultural Clrm - 3**

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Concepts and strategies for developing positive attitudes; increasing knowledge and selecting appropriate materials for teaching children from culturally diverse backgrounds.

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**CI 490A - Independt Rdg&Proj:Curriculum - 1 to 6** <sup>S</sup>

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Independent Readings: Curriculum. Requires consent of Instructor.

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**CI 490B - Ind Projects: Language Arts - 1 to 6**

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Independent Readings: Language Arts. Requires consent of Instructor.



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**CI 490C - Independent Projects: Science - 1 to 6**

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Independent Readings: Science. Requires consent of Instructor.

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**CI 490D - Independent Projects: Reading - 1 to 6**

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Independent Readings: Reading. Requires consent of Instructor.

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**CI 490E - Ind Projects: Social Sciences - 1 to 6**

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Independent Readings: Social Studies. Requires consent of Instructor.

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**CI 490F - Ind Projects: Mathematics - 1 to 6**

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Independent Readings: Mathematics. Requires consent of Instructor.

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**CI 490G - Ind Projects: Early Chhd Educ - 1 to 6**

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Independent Readings: Early Childhood Education. Requires consent of Instructor.

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**CI 490H - Ind Projects: Elem Education - 1 to 6**

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Independent Readings: Elementary Education. Requires consent of instructor.

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**CI 490I - Ind Projects: Middle School Ed - 1 to 6**

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Independent Readings: Middle School Education. Requires consent of instructor.

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**CI 490J - Ind Projects: Secondary Educ - 1 to 6**

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Independent Readings: Secondary school education. Requires consent of instructor.

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**CI 490K - Ind Projects: Community Coll - 1 to 6**

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Independent Readings: Community College. Requires consent of instructor.

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**CI 490L - Ind Projects: Adult Education - 1 to 6**

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Independent Readings: Adult Education. Requires consent of Instructor.

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**CI 490M - Ind Projects: Environmental Ed - 1 to 6**

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Independent Readings: Environmental Education. Requires consent of Instructor.

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**CI 490N - Ind Projects: Organiz & Superv - 1 to 6**

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Independent Readings: Organization & Supervision. Requires consent of Instructor.

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**CI 495 - Selected Topics - 1 to 6**

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Varied content; offered as need exists and as faculty interest and time permit. Requires consent of Instructor.

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**Curr & Instr in Education (CIED)**

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**CIED 100 - Introduction to Education - 3**

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Provides a study of theory and research relating to teaching as a career through personal observations, discussions of schools, teachers' roles, and teaching as a profession. Also offered as New Freshman Seminar Class.

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**CIED 302 - Field Experience II - 1**

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Current educational theory and practice as related to field experience; Clinical placements in P-12 classrooms as designated by program with introductory level experiences and responsibilities.

**Prerequisites:** Undergraduate level CIED 310 Minimum Grade of C AND Undergraduate level CIED 311 Minimum Grade of C

**Corequisites:** CIED312

### **CIED 303 - Field Experience III - 1** s

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Current educational theory and practice as related to field experience; Clinical placements in P-12 classrooms as designated by program with introductory level experiences and responsibilities.

**Prerequisites:** Undergraduate level CIED 302 Minimum Grade of S AND Undergraduate level CIED 312 Minimum Grade of C

**Corequisites:** CIED313

### **CIED 304 - Field Experience IV - 1 to 2** F

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Current educational theory and practice as they relate to field experience; Up to two full-days clinical placements in P-12 classrooms with intermediate level experiences and responsibilities.

**Prerequisites:** Undergraduate level CIED 303 Minimum Grade of S AND Undergraduate level CIED 313 Minimum Grade of C

**Corequisites:** CIED407, CIED441, CIED442, CIED443

### **CIED 310 - Planning for Diverse Learners - 3** FMS

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Introductory course on diverse characteristics of learners as individual and groups (social, cultural, linguistic and academic) and the impact on teaching and learning. This course must be taken concurrently with CIED 301. Taken concurrently with CI 311 for elementary education majors.

**Attributes:** EUSC

**Prerequisites:** Undergraduate level CIED 100 Minimum Grade of C

### **CIED 311 - Differentiated Instruction - 3**

---

Introductory course on foundations of institutional planning and planning for differentiated instruction. Includes research on instructional methods appropriate for a diverse and inclusive classrooms. Prerequisites: CIED 100, CIED 310 and SPE 400 with minimum grade of C (concurrent enrollment allowed); CIED 301 with minimum grade of S (concurrent enrollment allowed).

**Prerequisites:** Undergraduate level CIED 100 Minimum Grade of C (concurrency allowed) AND

Undergraduate level SPE 400 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 310 Minimum Grade of C (concurrency allowed)

### **CIED 312 - Language and Communication - 3** F

---

Apply phonological, synaptic, morphological, semantic, and pragmatic systems to communicate in diverse socio-cultural and linguistic contexts through reading, writing, listening, speaking, viewing, and visually representing.

**Attributes:** BICS

**Prerequisites:** Undergraduate level CIED 310 Minimum Grade of C AND Undergraduate level CIED 311 Minimum Grade of C

**Corequisites:** CIED302

**Restrictions:** May not be enrolled as one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 313 - Introduction to Assessment - 3** S

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Assessment as a component of inquiry. Introduction to the principles of assessment to inform instruction. Understanding types, uses, and application of statistics and assessments. Must be taken concurrently with CIED 303.

**Prerequisites:** Undergraduate level CIED 302 Minimum Grade of S AND Undergraduate level CIED 312 Minimum Grade of C

**Corequisites:** CIED303

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 314 - Learning Environments - 3** FMS

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Theories of classroom management and design, and how they interact with teaching style to create supportive, challenging, growth enhancing learning environments.

**Prerequisites:** Undergraduate level CIED 310 Minimum Grade of C AND Undergraduate level CIED 311 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 315 - Devel Iss in Mid Level Classrm - 3**

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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:** Undergraduate level CIED 301 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 310 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 311 Minimum Grade of C (concurrency allowed)

### **CIED 316 - Active Engagement with Infants - 3** F

---

Theory, research, and practice are integrated throughout the course to highlight all aspects of brain development, learning, emotional development, and early relationships.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 317 - Health, Safety, Nutrition - 3** F

---

Introduces students to traditional and contemporary issues related to children's health, safety, nutrition, and physical activity from infancy through school-age.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 318 - Collaborative Relationships - 3** S

---

Develop understanding of role of the community in education: learn the skills needed to develop and maintain collaborative relationships with colleagues, families, community agencies

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 319A - Inquiry, Play, and Investigate - 3** S

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Candidates will learn to create supportive, nurturing environments that allow young children to thrive through active play and investigation through planning, implementing, and evaluation.

**Corequisites:** CIED319B

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 319B - Inquiry, Play & Investig - Lab - 3**

---

Laboratory experiences will engage teacher candidates in discovery and exploration so they experience the deep investigations across all content areas.

**Corequisites:** CIED319A

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education, May not be enrolled as the following Departments:

### **CIED 320 - Language & Literacy:B-5 - 3** S

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Focuses on planning and implementing appropriate literacy experiences for English speaking and Dual Language Learning children and their families.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 321 - Primary Literacy - 3** S

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Theory and practice application for teaching primary level literacy including assessments, methods, strategies, literature, and materials for diverse students including English Language learners.

**Prerequisites:** Undergraduate level CIED 302 Minimum Grade of S AND Undergraduate level CIED 312 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 322 - Literacy Composition - 3** F

---

Applying theory and practice for teaching upper elementary and middle level literacy including assessments, methods, strategies, literature, and materials for diverse students including English Language learners.

**Prerequisites:** Undergraduate level CIED 312 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

**CIED 323 - Adolescent Disciplinary Litrcy - 3** F

---

Applying theory and practice for teaching upper elementary and middle level literacy including assessments, methods, strategies, literature, and materials for diverse students including English Language learners.

**Corequisites:** CIED424, CIED425, CIED426, CIED427

**CIED 330 - Early Childhood Field I - 1** F

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Student will spend 2 mornings a week in an infant or toddler classroom observing and helping the teacher with routines and instruction.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 331 - Early Childhood Field II - 1** S

---

Students will spend 2 mornings a week in a Pre-Kindergarten classroom observing and helping the teacher with routines and instruction.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 332 - Early Childhood Field III - 1**

---

Students will spend 2 full days a week in an elementary (K-2) classroom observing and helping the teacher with routines and instruction.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 407 - Mid Sch Philos and Organizatn - 3**

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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.

**Corequisites:** CIED304

**CIED 416 - Inquiry & Play Primary - 3**

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The primary focus is on using complex play, the tools of literacy, mathematics, the arts and content knowledge to engage in deep inquiry.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 417 - Assessment of Young Children - 3**

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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.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 418 - Early Childhood Mathematics - 3**

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Major emphasis is placed on teaching and learning; integrating meaningful curriculum; learning environment; assessment; and technology.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

**CIED 424 - Learn and Teach ELA at ML - 3**

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Course will focus on applying theory and principles to effective strategies in order to promote Literacy in the middle grades.

**Prerequisites:** Undergraduate level CIED 313 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 322 Minimum Grade of C (concurrency allowed)

**Corequisites:** CIED323

**CIED 425 - Learn Teach Math at ML - 3** M

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Designed around professional principles and standards. Course will focus on mathematics, equity, curriculum, teaching, learning, assessment, technology, and participation in a professional community.

**Prerequisites:** Undergraduate level CIED 313 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 322 Minimum Grade of C (concurrency allowed)

**Corequisites:** CIED323

**CIED 426 - Learn and Teach Science at ML - 3**

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This course prepares middle level teacher candidates to implement science into the middle level curriculum using state and national standards as their guide.

**Prerequisites:** Undergraduate level CIED 313 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 322 Minimum Grade of C (concurrency allowed)

**Corequisites:** CIED323

### **CIED 427 - Learn Teach Social Stu at ML - 3**

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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:** Undergraduate level CIED 313 Minimum Grade of C (concurrency allowed) AND Undergraduate level CIED 322 Minimum Grade of C (concurrency allowed)

**Corequisites:** CIED323

### **CIED 441 - Elementary Math Methods - 3**

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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:** Undergraduate level CIED 313 Minimum Grade of C AND Undergraduate level CIED 321 Minimum Grade of C

**Corequisites:** CIED304, CIED442, CIED443

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 442 - Elementary Science Studies - 3**

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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:** Undergraduate level CIED 313 Minimum Grade of C AND Undergraduate level CIED 321 Minimum Grade of C

**Corequisites:** CIED304, CIED441, CIED443

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 443 - Elementary Social Studies - 3**

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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:** Undergraduate level CIED 313 Minimum Grade of C AND Undergraduate level CIED 321 Minimum Grade of C

**Corequisites:** CIED304, CIED441, CIED442

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 451 - Student Teaching - 10**

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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:** Undergraduate level CIED 304 Minimum Grade of S AND Undergraduate level CIED 441 Minimum Grade of C AND Undergraduate level CIED 442 Minimum Grade of C AND Undergraduate level CIED 443 Minimum Grade of C

**Corequisites:** CIED452

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education,Elementary Education

### **CIED 452 - Senior Seminar - 2**

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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:** Undergraduate level CIED 304 Minimum Grade of S AND Undergraduate level CIED 441 Minimum Grade of C AND Undergraduate level CIED 442 Minimum Grade of C AND Undergraduate

level CIED 443 Minimum Grade of C

**Corequisites:** CIED451

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education, Elementary Education

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**CIED 455B - 9-12 Student Teaching - Biol - 10**

Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must be concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455D - 9-12 Student Teaching - Chem - 10**

Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must be concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455F - 9-12 Student Teaching - Engl - 10**

Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must be concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455G - 9-12 Student Teaching - FLang - 10**

Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must be concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455I - 9-12 Student Teaching - Geog - 10**

Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of

Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must ne concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455J - 9-12 Student Teaching - PolSci - 10**

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Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must ne concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455L - 9-12 Teaching - Hist - 10**

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Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must ne concurrently enrolled in

CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455N - 9-12 Student Teaching - Math - 10**

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Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must ne concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 455T - 9-12 Student Teaching - Theat - 10**

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Five day a week clinical placement in high school level classroom with experiences and responsibilities appropriate for pre-service educators in their final semester of a professional educator licensure program. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must ne concurrently enrolled in CIED 456. OCECA Advisor approval.

**Corequisites:** CIED456

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**CIED 456 - 9-12 Senior Seminar - 2**

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An exploration, synthesis and application of previous program coursework. A synthesis and application to

the filed during full-time student teaching. Prerequisite: Acceptance into SEHNB Secondary Education Licensure Sequence. Successful completion of the first three blocks of Secondary Professional Educator Licensure sequenced courses in SEHNB including: IT 300, CIED 302, CIED 303, CIED 304, CIED 310, CIED 311, CIED 313, CIED 314, CIED 314, CIED 323, and SPE 400. Successful completion of all CAS Content Methods course(s) for your subject area. You must meet the minimum required CAS Program major requirements. You must be concurrently enrolled in CIED 455 (b,d,f,g,i,j,l,n, or t). OCECA Advisor approval.

### **CIED 457 - Ethics & Advocacy - 2**

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An exploration, synthesis and application of previous program coursework and translating its application to the field during full-time student teaching.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 458 - Pre-K Student Teaching - 5**

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Practice of teaching at Pre-K level.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

### **CIED 459 - Elementary Student Teaching - 5**

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Practice of teaching at Elementary (K-2) level.

**Restrictions:** Must be enrolled in one of the following Majors: Early Childhood Education

## **Criminal Justice Studies (CJ)**

### **CJ 111 - Intro to Criminal Justice - 3** FMS

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Introduction to the system of Criminal Justice including police, courts, and corrections.

**Attributes:** BSS, ISS

**Restrictions:** May not be enrolled as the following Levels: Graduate

### **CJ 202 - Introduction to Corrections - 3** FS

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Overview of corrections in the U.S. includes philosophy of punishment, prisons, community-based

sanctions, death penalty, and ethical issues.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **CJ 205 - Juvenile Justice - 3** FS

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Arrest, pre-trial detention, court procedures, and punishment involving juveniles; includes waivers to adult court, privacy issues, community-based corrections, and recidivism.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **CJ 206 - Principles of Criminal Law - 3** FMS

---

This course is an introduction to criminal law. The course covers the elements of crimes, criminal defenses and the nature of criminal responsibility.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **CJ 207 - Criminal Procedure - 3** FS

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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.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 201  
Minimum Grade of D OR Undergraduate level CJ 111  
Minimum Grade of D

### **CJ 208 - Introduct to Law Enforcement - 3** FS

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History, organization and operations of police; includes use of discretion, arrest powers, detective work, interagency cooperation, and use of force.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following



Classifications: Freshman, 1st Semester, Freshman

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**CJ 273 - Crime, Theory, and Practice - 3** FS

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An overview of crime and the theories in Criminal Justice that form the foundation for policies and programs in the criminal justice systems.

**Attributes:** BSS

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C

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**CJ 302 - Research Meth in CJ - 3** FMS

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Major research methods in social sciences as applied to study of crime and justice; includes surveys; observational methods; experimentation; and comparative and historical research.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C

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**CJ 303 - Data Analysis in CJ - 3** FMS

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Key statistical concepts, their application and interpretation. Using a computer to calculate and graphically display statistics. Creating and manipulating data sets.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 302  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Criminal Justice Studies, Sociology

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**CJ 308 - Criminal Investigations - 3** M

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level CJ 208  
Minimum Grade of D

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**CJ 311 - Perspectives on Terrorism - 3** M

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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.

**Attributes:** SS

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**CJ 348 - Law and Society - 3** S

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Examines the nexus of culture, dispute management and law. We will explore law as a social construct, focusing on law's everyday impact on citizens' lives. Crosslisted with PHIL 348 and POLS 392.

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**CJ 357 - Organized Crime - 3**

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Explores the history, structure, and response to organized crime in the United States and other countries.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Classifications: Graduate

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**CJ 364 - Rehab & Treatment Modalities - 3**

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Examines treatment and rehabilitation strategies, including theoretical foundations, counseling techniques, and community-based approaches.

**Attributes:** SS

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**CJ 365 - Ethics in Criminal Justice - 3**

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Explores ethical responsibilities of criminal justice personnel and the moral dilemmas faced by police, court and corrections officials in processing suspects, defendants and offenders.

**Attributes:** SS

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**CJ 366 - Race & Class in Criminal Justi - 3** FS

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Criminal Justice from the vantage point of race and class relations; racial and cultural interaction; enforcement patterns; use of discretion; case outcomes; and punishment.

**Attributes:** SS

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**CJ 367 - Gender and Criminal Justice - 3**

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Explores issues of gender in criminal justice, particularly with regard to offending, victimization, processing, incarcerating, rehabilitating and among

professionals in the field.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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### **CJ 368 - Serial Rape and Murder - 3**

Prevailing myths surrounding sexual assault and examination of the various typologies explaining rape and murder.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 273  
Minimum Grade of C OR Undergraduate level CJ 272  
Minimum Grade of C

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### **CJ 390 - Spec Topics in CJ - 3**

FMS

Topics not included in regular course offerings. May be repeated once to a maximum of 6 hours provided no topic is repeated.

**Attributes:** SS

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### **CJ 396 - Readings in Criminal Justice - 1 to 6**

Supervised readings or projects in selected areas of criminal justice. May be repeated for up to 6 hours. Requires consent of instructor.

**Attributes:** SS

**Restrictions:** Must be enrolled in one of the following Majors: Criminal Justice Studies

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### **CJ 398 - Pre-Law Program Internship - 3**

M

This provides experimental learning internships for pre-law students to gain first-hand knowledge of legal settings. It is an online independent study by instructor approval.

**Attributes:** SS

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### **CJ 401 - Community Corrections - 3**

Historical and current practices and success rates of community based alternatives to prison; includes boot camps, probation, electronic monitoring and new "creative" sentencing.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following

Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CJ 408 - Crit Issues in Law Enforcement - 3**

M

Examination and analysis of issues in policing including training and socialization; management and organization; deviance; minority recruitment; community based efforts; and use of force.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CJ 410 - Jud Process:T/Crim Crt System - 3**

Federal and Illinois criminal courts examined. Application of law, criminal and appellate processes to case scenarios emphasized.

**Attributes:** SS

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### **CJ 420 - United States Drug Policy - 3**

Examine historical and contemporary drug use and policy efforts, including secondary problems affiliated with drugs; and the war on drugs and its impact nationally and internationally.

**Attributes:** SS

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### **CJ 450 - Neighborhoods and Crime - 3**

To develop an understanding of the relationship between communities and the way they contribute in shaping and controlling patterns of crime and delinquency.

**Attributes:** BSS, DSS

**Prerequisites:** CJ 273 with a grade of C or higher or graduate standing.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CJ 454 - Capital Punishment - 3**

Explores the history, practice, and legal status of the death penalty in the United States and other countries.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

### **CJ 464 - Mental Health & /Crim System - 3**

Explores treatment of individuals with mental illness by police, courts, and corrections. Insanity defense, competency, commitment, diversion, and CIT discussed.

**Attributes:** SS

### **CJ 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.

**Attributes:** SS

**Prerequisites:** Undergraduate level CJ 273  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **CJ 488 - Supervised Internship - 3** FMS

140 hours of supervised work in a criminal justice organization culminating in a written and oral presentation to CJ faculty relating the experience to coursework. Prerequisite: CJ majors only with senior standing and completion of at least 18 hours of CJ course work.

**Prerequisites:** Undergraduate level CJ 111  
Minimum Grade of C AND Undergraduate level CJ 202  
Minimum Grade of C AND Undergraduate level CJ 206  
Minimum Grade of C AND Undergraduate level CJ 208  
Minimum Grade of C AND Undergraduate level CJ 273  
Minimum Grade of C AND Undergraduate level CJ 302  
Minimum Grade of C AND Undergraduate level CJ 366  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Criminal Justice Studies, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## **Computer Mgmt. & Info. Systems (CMIS)**

### **CMIS 108 - Computer Concepts & Applicatns - 3** FMS

Computer technology's impact on individuals and our world. Finding and accessing worldwide sources of information; presenting ideas orally, graphically and in writing.

**Attributes:** BICS, SKCP

### **CMIS 130 - 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.

**Attributes:** BICS

### **CMIS 232 - Microsoft IDE Prog for Bus - 3** FS

Programming with Visual Studio, Microsoft's integrated development environment (IDE), to create business applications that run the .Net framework and mobile operating systems.

**Prerequisites:** Undergraduate level CMIS 130  
Minimum Grade of C

### **CMIS 234 - Java for Business - 3** FS

Application of business problem solving techniques, program design and development, and programming logic to create java programs.

**Prerequisites:** Undergraduate level CMIS 130  
Minimum Grade of C

### **CMIS 260 - Cobol Programming - 3**

Business-oriented computer programming using listings computations, comparisons, table/arrays, files. Students apply logical methods to the design of programs. IAI CS 913

**Prerequisites:** Undergraduate level CMIS 130  
Minimum Grade of C

### **CMIS 270 - Structured Systems Analysis - 3** FS

Structured tools and techniques as used in business

systems analysis and design.

**Prerequisites:** Undergraduate level CMIS 108 Minimum Grade of D OR Undergraduate level MIS 108 Minimum Grade of D OR Undergraduate level CS 108 Minimum Grade of D OR Undergraduate level CS 145 Minimum Grade of D

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### **CMIS 300 - Web-Based Application Design - 3**

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Analysis, design and implementation of internet web-site home pages using current tools of hypertext markup languages, integrated software packages, and specialized web creation software.

**Prerequisites:** Undergraduate level CMIS 270 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 310 - Inform Tech Hardwr&Syst Softwr - 3** FMS

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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.

**Prerequisites:** Undergraduate level CMIS 270 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 342 - Information Systems for Bus - 3** FMS

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Information system principles applied to Business. Analysis of how computer-based information systems support operational, tactical, and planning decisions.

**Prerequisites:** (Undergraduate level ACCT 210 Minimum Grade of C OR Undergraduate level ACCT 301 Minimum Grade of C) AND (Undergraduate level CS 108 Minimum Grade of D OR Undergraduate level CMIS 108 Minimum Grade of D) AND Undergraduate level MGMT 331 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the

following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **CMIS 422 - Information Security - 3**

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Provides an introduction to the various technical and administrative aspects of Information Security and Assurance.

**Prerequisites:** CMIS 310 with a C or higher or Graduate Standing.

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### **CMIS 424 - IT Audit & Controls - 3**

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Provides an overview of IT Audit and Controls including IT audit methods, methodologies, and procedures and how IT controls serve business needs.

**Prerequisites:** CMIS 310 with a grade of C or higher or graduate standing.

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### **CMIS 430 - Advanced Java Programing - 3**

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Development of applications, applets, and advanced GUI, including advanced object-oriented programming in JAVA, multithreading, files, multimedia, database use and networking concepts used for application.

**Prerequisites:** Undergraduate level CMIS 234 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 435 - Mobile App Development - 3**

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Develop apps for mobile devices, including smart phones and tablets, on multiple platforms. Opportunity to develop your own ideas for real-world apps.

**Prerequisites:** Undergraduate level CMIS 232 Minimum Grade of C OR Undergraduate level CMIS 234 Minimum Grade of C

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### **CMIS 450 - Database Design - 3** FS

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Basic concepts/terminology of relational models with emphasis on current technology and business

applications including SQL.

**Prerequisites:** Undergraduate level CMIS 270  
Minimum Grade of C AND (Undergraduate level  
CMIS 130 Minimum Grade of C OR Undergraduate  
level CS 145 Minimum Grade of C)

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### **CMIS 455 - Adv Database & Bus Analytics - 3**

Advanced programming for querying and reporting from structures databases, working with unstructured data sources, and introduction to business analytics and business intelligence.

**Prerequisites:** Undergraduate level CMIS 450  
Minimum Grade of C

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### **CMIS 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.

**Prerequisites:** Undergraduate level CMIS 232  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 462 - Unix and Server Systems - 3**

UNIX and Windows server operating systems to include scripting language plus server software installation and configuration.

**Prerequisites:** Undergraduate level CMIS 310  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 468 - Business Telecommunications - 3** <sup>FS</sup>

Concepts and terminology dealing with data communication and distributed systems with emphasis on business applications.

**Prerequisites:** Undergraduate level CMIS 310  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 470 - Structured Systems Design - 0 or 3** <sup>FS</sup>

Structured systems design methodologies, including process-oriented, data structure-oriented, and information-oriented techniques. Not for Graduate Credit.

**Prerequisites:** Undergraduate level CMIS 310  
Minimum Grade of D AND Undergraduate level  
CMIS 450 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 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 network setting.

**Prerequisites:** Undergraduate level CMIS 342  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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### **CMIS 488 - Information Systems Internship - 3** <sup>FMS</sup>

Application of information systems knowledge in a structured work environment with a written report of the work experience. Not for graduate credit. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CMIS 490 - Indept Study /Inform Systems - 3 to 6**

Investigation of topical CMIS area resulting in deliverable unit. May be repeated to a maximum of 6 hours. Requires consent of department chair or

program director.

**Restrictions:** Must be enrolled in one of the following Majors: Computer Management and Info Sys

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**CMIS 495 - Sem: Information Systems - 3 to 6** <sup>F</sup>

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Current issues related to business aspects of dealing with information systems. May be repeated to a maximum of 6 hours if topics differ.

## Construction (CNST)

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**CNST 120 - Introduction to Construction - 2** <sup>FS</sup>

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Survey of construction industry; typical employment opportunities; history; and current development. Introduction to construction graphics and problem solving techniques.

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**CNST 199 - Construction Cooperative ED I - 0** <sup>FMS</sup>

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Supervised work experience with agency, firm or organization which employs constructors. First work period of an academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**CNST 210 - Bldg Construction Mats & Mthds - 3** <sup>S</sup>

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Introduction to construction materials and material properties, construction methods and equipment for handling, storing and installing. Prerequisite: CNST 120, MATH 150, and [CHEM 120A or CHEM 121A or CHEM131] with minimum grade of D (concurrent enrollment allowed).

**Prerequisites:** Undergraduate level CNST 120 Minimum Grade of D (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of D (concurrency allowed) AND (Undergraduate level CHEM 120A Minimum Grade of D (concurrency allowed) OR Undergraduate level CHEM 121A

Minimum Grade of D (concurrency allowed) OR Undergraduate level CHEM 131 Minimum Grade of D (concurrency allowed))

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**CNST 211 - Civil Cnst Matls & Methods - 3**

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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: CNST 120, MATH 150, and [CHEM 120A or CHEM 121A or CHEM131] with minimum grade of D (concurrent enrollment allowed).

**Prerequisites:** Undergraduate level CNST 120 Minimum Grade of D (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of D (concurrency allowed) AND (Undergraduate level CHEM 120A Minimum Grade of D (concurrency allowed) OR Undergraduate level CHEM 121A Minimum Grade of D (concurrency allowed) OR Undergraduate level CHEM 131 Minimum Grade of D (concurrency allowed))

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**CNST 241 - Statics & Mechanics of Solids - 4** <sup>FS</sup>

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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.

**Prerequisites:** (Undergraduate level PHYS 141 Minimum Grade of C OR Undergraduate level PHYS 151 Minimum Grade of C) AND Undergraduate level MATH 152 Minimum Grade of D

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**CNST 264 - Construction Surveying - 4**

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Surveying applications for construction. Prerequisite: CNST 120 and MATH 150 with minimum grade of D (concurrent enrollment allowed).

**Prerequisites:** Undergraduate level CNST 120 Minimum Grade of D (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of D (concurrency allowed)

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**CNST 299 - Construction Coop ED II - 0** <sup>FS</sup>

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Supervised work experience with agency, firm, or organization which employs constructors. Second work period of an academic/work experience program. Prerequisite: Consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **CNST 301 - Soils - 2**

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s

Physical properties and behavior of soil as a construction material; construction methods and equipment in earthmoving; erosion and sedimentation control; and regulatory requirements.

**Prerequisites:** Undergraduate level CNST 211 Minimum Grade of D AND (Undergraduate level CNST 241 Minimum Grade of D OR Undergraduate level CE 242 Minimum Grade of D)

**Corequisites:** CNST301L

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### **CNST 301L - Soils Laboratory - 1**

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s

Laboratory and field experiments in soil classification and determination of engineering index properties. Interpretation of test results and geotechnical reports.

**Corequisites:** CNST301

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### **CNST 310 - Legal Aspects of Land Surveying - 3**

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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:** Undergraduate level CNST 264 Minimum Grade of D

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### **CNST 321 - Electrical Systems - 3**

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s

Basic electrical theory; electrical systems and distribution for facilities and during construction, safety, wiring and energy consumption.

**Prerequisites:** Undergraduate level PHYS 141 Minimum Grade of D OR Undergraduate level PHYS 151 Minimum Grade of D

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### **CNST 332 - Mechanical Systems - 3**

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F

Mechanical heating, air conditioning, and ventilation systems. Requirements during construction; and construction installation for completed facility. Prerequisite: CNST 210 with minimum grade of C or concurrent enrollment and [PHYS 141 or PHYS 151] with minimum grade of D.

**Prerequisites:** Undergraduate level CNST 210 Minimum Grade of C (concurrency allowed) AND (Undergraduate level PHYS 141 Minimum Grade of D OR Undergraduate level PHYS 151 Minimum Grade of D)

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### **CNST 341 - Plans and Specifications - 3**

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FS

Reading and interpreting plans and specifications. Standard construction specifications and standard procedures. Take-off methods for estimating.

**Prerequisites:** (Undergraduate level CNST 210 Minimum Grade of C OR Undergraduate level CNST 211 Minimum Grade of C) AND Undergraduate level CNST 264 Minimum Grade of D

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### **CNST 351 - Analy, Design & CNST/Struct System - 3**

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F

Load paths in typical structural configurations, approximate stress analysis of structures, and concrete formwork design. Analysis, design and construction of wood, concrete, steel, masonry and composite structures.

**Prerequisites:** Undergraduate level CNST 210 Minimum Grade of D AND Undergraduate level CNST 241 Minimum Grade of D OR Undergraduate level CE 242 Minimum Grade of D

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### **CNST 353 - Computer Applications in CNST - 3**

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s

Introduction to computer methods used in the construction industry. Computer aided drafting, spreadsheets, elementary computer programming, and web-based construction management.

**Prerequisites:** Undergraduate level CNST 210 Minimum Grade of D

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### **CNST 364 - Boundary Surveying - 3**

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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.

**Prerequisites:** Undergraduate level CNST 310  
Minimum Grade of D

### **CNST 399 - Construction Coop ED III - 0** FMS

Supervised work experience with agency, firm, or organization which employs constructors. Third work period of an academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### **CNST 403 - Planning and Scheduling - 3** FS

Planning and scheduling construction projects including resource and manpower allocation. CPM and PERT methods; progress reports; and records. Prerequisites: (applies to undergraduates only) CNST 341, CNST 353

**Prerequisites:** CNST 341 and CNST 353 for undergraduates only or GM standing for grad students.

### **CNST 411 - Construction Contracts - 3** S

Legal aspects of contracts and bidding; types of construction contracts and documents including bonds; and OSHA, local, state, federal regulations. Not for Graduate credit.

**Prerequisites:** Undergraduate level CNST 341  
Minimum Grade of D

### **CNST 415 - Land Development - 3** S

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. Prerequisite: CNST 341 with minimum grade of D or concurrent enrollment.

**Prerequisites:** Undergraduate level CNST 341  
Minimum Grade of D (concurrency allowed)

### **CNST 422 - Spanish for Construction - 3**

Job-specific Spanish for non-Spanish speaking construction personnel. Understanding cultural differences and issues that affect the Hispanic construction workforce.

**Attributes:** EGC, IC, II

### **CNST 425 - Heavy Civil Construction - 3**

Methods and procedures for estimating, planning and constructing road and bridge projects. Prerequisite: (applies to undergraduate enrollment only) CNST 210

**Prerequisites:** Undergraduate level CNST 211  
Minimum Grade of C

### **CNST 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.

**Prerequisites:** Undergraduate level CNST 341  
Minimum Grade of D

### **CNST 442 - Building Information Modeling - 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.

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

### **CNST 451 - Estimating and Bidding - 3** FS

Methods and procedures for estimating and bidding construction projects. Use of take-off quantities, productivity, and material costs. Prerequisites: (applies to undergraduates only) CNST 341, CNST 353

**Prerequisites:** CNST 341 and CNST 353 for Undergraduates; or GM standing for Graduate students.

**Corequisites:** CNST451L

**Restrictions:** May not be enrolled as the following



Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CNST 451L - Estimating and Bidding Lab - 1** FS

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Computer applications for quantity take-off, cost estimation and bid preparation.

**Corequisites:** CNST451

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**CNST 452 - Cons Mgmt& Senior Assessment - 4** FS

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Professional aspects of construction management. Management techniques, quality control, safety, time and cost management. Senior assessment project. Not for graduate credit.

**Prerequisites:** Undergraduate level CNST 403 Minimum Grade of D AND Undergraduate level CNST 451 Minimum Grade of D

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**CNST 461 - Materials Sampling and Testing - 3**

---

Procedures and methods for developing and evaluating sampling and testing programs for construction. Individual projects required. Available for Graduate Credit.

**Prerequisites:** Undergraduate level STAT 244 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Junior, Sophomore

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**CNST 463 - Concrete Properties - 3**

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Concrete construction techniques are analyzed. Emphasis will be on how fundamental properties are used to make project decisions. Individual projects required.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Junior, Sophomore

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**CNST 464 - Project Controls - 3**

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Discussion of methodology and techniques used typically by the construction industry in the control of project schedule, cost, contract administration and construction quality.

**Prerequisites:** Undergraduate level CNST 341 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Junior, Sophomore

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**CNST 470 - Construction Internship - 3** MS

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Acquisition of hands-on experience in the management of a typical construction project. The jobsite becomes the classroom. Not for Graduate Credit. Prerequisite: CNST 341, completion or concurrent enrollment in the OSHA 10-hour safety course; senior standing and/or consent of instructor.

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**CNST 482 - Advanced Survey Systems - 4**

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Celestial observations and GPS. Surveying instrumentation, operation, error sources, and calibration.

**Prerequisites:** Undergraduate level CNST 310 Minimum Grade of D

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**CNST 484 - Surveying Computations and App - 4**

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Application of celestial observations and GPS to boundary, topographic, route surveying, and subdivision design. Analysis and adjustment of errors.

**Prerequisites:** Undergraduate level CNST 482 Minimum Grade of D

---

**CNST 495 - Topics in Construction - 2 to 9**

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Selected topics of special interest in construction. May be repeated to a maximum of 9 hours provided no topic is repeated. Not for Graduate Credit.

**Prerequisites:** Undergraduate level CNST 341 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Junior, Sophomore

## Computer Science (CS)

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**CS 108 - Applied Computer Concept - 3** FMS

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Computer skills course which assumes no prior experience with computers. Introduces computer concepts and word processing; spreadsheets and

database software; and 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.

**Attributes:** BICS, SKCP

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**CS 111 - Concepts of Computer Science - 3** FMS

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Broad view of computer science: hardware; operating systems; software design and development; algorithms; networks; and applications.

**Attributes:** BICS, INSM

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**CS 140 - Introduction to Computing I - 0 or 4** FMS

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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.

**Attributes:** SKCP

**Prerequisites:** Undergraduate level MATH 120 Minimum Grade of C OR Undergraduate level MATH 120E Minimum Grade of C

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**CS 145 - Intro to Computing f/Engineers - 3** FS

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Introduces C++ programming and basic problem solving. Focuses on computer applications in engineering, science and numeric methods. Prerequisite: Basic computer literacy.

**Attributes:** SKCP

**Prerequisites:** Undergraduate level MATH 150 Minimum Grade of C

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**CS 150 - Intro to Computing II - 3** FMS

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Algorithmic problem solving with a modern programming language. Language syntax; basic design methods; algorithms; and abstraction.

**Attributes:** SKCP

**Prerequisites:** Undergraduate level CS 140 Minimum Grade of C OR Undergraduate level CS 145 Minimum Grade of C

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**CS 198 - CS Work Experience I - 0** FMS

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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 6 hours.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**CS 199 - CS Cooperative Ed Exp I - 0** FMS

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Supervised work experience with agency employing computer scientists or information specialists. First work period of 5-year academic/work experience program.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**CS 234 - Database and Web System Dev - 3** FS

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An introduction to multi-tier software systems and database programming and their application to web-based information storage and retrieval systems.

**Prerequisites:** Undergraduate level CS 150 Minimum Grade of C

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**CS 240 - Intro to Computing III - 3** FMS

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Basic software engineering concepts, elementary data structures and algorithms, fundamentals of object-oriented programming.

**Prerequisites:** Undergraduate level CS 150 Minimum Grade of C

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**CS 286 - Intro Computer Organiz & Arch - 3**

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Processor, memory, I/O structure of computer systems, data representations, instruction set architecture of typical processor as hardware/software interface, processor implementation, performance evaluation methods.

**Prerequisites:** Undergraduate level CS 150 Minimum Grade of C

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**CS 298 - Comput Science Work Exp. II - 0** FMS

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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 6 credit hours.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Computer Science, Must be enrolled in one of the following Classifications: Junior, Sophomore, Must be enrolled in one of the following Levels: Undergraduate

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**CS 299 - CS Cooperative Ed Exp II - 0** FMS

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**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Senior with Degree, Senior

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**CS 314 - Operating Systems - 3** FMS

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Processes, threads, and synchronization; I/O and memory management at the hardware and OS levels; file systems; and implementation of basic OS abstractions, concurrent programming.

**Prerequisites:** Undergraduate level CS 240 Minimum Grade of C AND Undergraduate level CS 286 Minimum Grade of C

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**CS 321 - Human-Computer Interact Design - 3** FS

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Design of interactions between people and computers. Interface design, conceptual models, design methods, software evaluation and ethical concerns. Software design project.

**Prerequisites:** Undergraduate level CS 234 Minimum Grade of C AND (Undergraduate level STAT 244 Minimum Grade of C OR Undergraduate level STAT 380 Minimum Grade of C)

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**CS 325 - Software Engineering - 3** FS

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Introduction to the concepts and techniques required to develop complex software systems and manage software projects. Emphasis on object-oriented methodologies and modeling via UML.

**Prerequisites:** Undergraduate level CS 240 Minimum Grade of C AND Undergraduate level CS

234 Minimum Grade of C

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**CS 330 - Programming Languages - 3** FS

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Design, appropriateness and linguistics issues associated with different programming languages and programming paradigms. Covers syntax and semantics of languages, including BNF Notation.

**Prerequisites:** Undergraduate level CS 286 Minimum Grade of C

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**CS 340 - Algorithms and Data Structures - 3** FS

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Considers appropriate choice of data structures, comparisons of algorithms, recursive algorithms, complexity, and introduction to parallel algorithms.

**Prerequisites:** Undergraduate level CS 240 Minimum Grade of C AND Undergraduate level MATH 224 Minimum Grade of C AND (Undergraduate level MATH 130 Minimum Grade of C OR Undergraduate level MATH 150 Minimum Grade of C)

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**CS 360 - Eth/Soc Implications Computing - 3**

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An introduction to the social, ethical, legal, and professional contexts in which software systems are developed and utilized.

**Prerequisites:** Undergraduate level CS 234 Minimum Grade of C

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**CS 382 - Game Design, Development & Tec - 3**

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Introduction to the entire process of game development, including history, social impact, design, programming, software engineering, math, physics, graphics, animation, audio, AI, and hardware.

**Prerequisites:** Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level CS 286 Minimum Grade of C AND Undergraduate level CS 321 Minimum Grade of C

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**CS 390 - Topics in Computer Science - 3**

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Selected topics in computer science. May be repeated to a maximum of 6 hours for different

topics.

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**CS 398 - CS Work Experience III - 0** FMS

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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 6 credit hours.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Computer Science, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**CS 399 - Comp Sci Coop Ed Exp III - 0** FMS

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Supervised work experience with agency employing computer scientists or information specialists. Third work period of 5-year academic/work experience program.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Computer Science, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior, Must be enrolled in one of the following Levels: Undergraduate

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**CS 423 - Compiler Construction - 3**

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Translation of programming languages. Emphasis on techniques used in construction of compilers, including lexical analysis, syntactical analysis, type checking, and code generation.

**Prerequisites:** Undergraduate level CS 330  
Minimum Grade of C

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**CS 425 - Senior Project:Software Design - 3** FS

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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:** Undergraduate level CS 340  
Minimum Grade of C AND Undergraduate level CS 314 Minimum Grade of C AND Undergraduate level CS 325 Minimum Grade of C AND Undergraduate

level CS 321 Minimum Grade of C AND  
Undergraduate level CS 360 Minimum Grade of C

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**CS 434 - Database Management Systems - 3** M

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Database management system concepts, models, languages. Entity/relationship, relational and object-oriented data models; relational database design and implementation including SQL; and object databases.

**Prerequisites:** Undergraduate level CS 240  
Minimum Grade of C AND Undergraduate level CS 234 Minimum Grade of C

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**CS 438 - Artificial Intelligence - 3** S

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Principles and programming techniques of artificial intelligence. Intelligent agents, heuristic programming, knowledge representation, expert systems, and machine learning.

**Prerequisites:** Undergraduate level CS 340  
Minimum Grade of C

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**CS 447 - Networks and Data Communica - 3** FMS

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Concepts of networks and data communications. Networking protocols and architecture; data encoding and transmission; network management; and distributed applications.

**Prerequisites:** Undergraduate level CS 340  
Minimum Grade of C AND (Undergraduate level CS 314 Minimum Grade of C OR Undergraduate level CS 414 Minimum Grade of C)

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**CS 454 - Theory of Computation - 3** F

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Theoretical foundations of computer science, including a theory of automata: pushdown automata, Turing machines; and formal languages.

**Prerequisites:** CS 330 and MATH 224 with C or better; or Graduate Standing

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**CS 456 - Advanced Algorithms - 3** FS

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Advanced algorithms and data structures; basic complexity theory; and approximation algorithms for NP-hard problems.

**Prerequisites:** Undergraduate level CS 340  
Minimum Grade of C

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### **CS 482 - Computer Graphics - 3**

Introduction to 2D and 3D graphics, graphics hardware, scan conversion, anti-aliasing, hidden components, transformations, projections, ray tracing, curve and surface modeling, and animation.

**Prerequisites:** Undergraduate level CS 286  
Minimum Grade of C AND Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level CS 240 Minimum Grade of C

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### **CS 490 - Topics in Computer Science - 3** FS

Selected topics in computer science. May be repeated to a maximum of 6 hours for different topics. Requires consent of instructor.

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### **CS 495 - Independent Study - 3** FMS

Reading and research in specific areas of computer science. May be repeated for a maximum of 6 hours. Requires consent of department chair or program director.

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### **CS 499 - Senior Proj: Software Implem - 3** FS

Second part of a two-semester sequence in which teams implement, test, and deploy software development project that was planned and designed in CS 425. Includes a formal presentation to the computer science faculty.

**Prerequisites:** Undergraduate level CS 425  
Minimum Grade of C

## **Dance (DANC)**

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### **DANC 111 - The Dance Experience - 3** FMS

Introductory course to give the student an understanding of how essential components of movement study come together to produce an aesthetic dance experience.

**Attributes:** BFPA, IFAH

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### **DANC 114 - Movement Fundamentals - 3** FS

Movement course: Introduction to dance technique, theory, and anatomy. May be repeated to a maximum of 9 hours.

**Attributes:** DFAH, EH, FPA

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### **DANC 210A - Beginning Modern Dance Tech - 2** F

Movement course: Modern dance theories and techniques. Modern dance theories and techniques. May be repeated to a maximum of 6 hours.

**Attributes:** EH, FPA

**Prerequisites:** Undergraduate level DANC 114  
Minimum Grade of D

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### **DANC 210B - Beginning Modern Dance - 2**

Modern dance theories and techniques. Repeatable to 6 hours.

**Attributes:** EH, FPA

**Prerequisites:** Undergraduate level DANC 114  
Minimum Grade of D

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### **DANC 211A - Beginning Ballet - 2** F

Technique class. Fundamentals of classical ballet through Barre and Center exercises.

**Attributes:** EH, FPA

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### **DANC 211B - Beginning Ballet - 2** S

Technique class. Fundamentals of classical ballet through Barre and Center exercises.

**Attributes:** EH, FPA

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### **DANC 212A - Jazz Dance - 1**

Technique class. Exploring jazz techniques and performance style. May be repeated to a maximum of 4 hours.

**Attributes:** EH, FPA

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### **DANC 212B - Jazz Dance - 1**

Technique class. Exploring jazz techniques and performance style. May be repeated to a maximum of 4 hours.

**Attributes:** EH, FPA

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**DANC 213 - Beginning Tap Dance - 1**

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Basic tap steps and vocabulary. Tap choreography. May be repeated to a maximum of 3 hours.

**Attributes:** FPA

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**DANC 214 - Dance Improvisation - 1**

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Developing skills in perception and rapid translation of ideas into dance. May be repeated to a maximum of 4 hours.

**Attributes:** DFAH, EH, FPA

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**DANC 220 - Rhythmic Structure & Analysis - 2**

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Analysis and use of rhythms and compositional forms of music for dance.

**Attributes:** FPA

**Prerequisites:** Undergraduate level DANC 210A Minimum Grade of D AND Undergraduate level DANC 210B Minimum Grade of D

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**DANC 230 - Intro to Laban Movement Analys - 2**

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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) and space/harmony (system that describes human movement in relation to space).

**Attributes:** FPA

**Prerequisites:** Undergraduate level DANC 214 Minimum Grade of D AND Undergraduate level DANC 320 Minimum Grade of D

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**DANC 240 - History of Dance - 3**

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Development of dance prior to and during the 20th century. Not for Graduate Credit.

**Attributes:** DFAH, FPA

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**DANC 250 - University Dance Company - 1 to 2** <sup>FS</sup>

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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.

**Attributes:** FPA

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**DANC 260 - Performance/Choreography - 1 to 2**

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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. Requires consent of instructor.

**Attributes:** DFAH, FPA

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**DANC 270 - Independent Study of Dance - 1 to 2**

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Supervised study for students in dance, choreography, or performance. May be repeated to maximum of 8 hours. Requires consent of instructor.

**Attributes:** DFAH, FPA

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**DANC 310A - Inter Modern Dance Techniques - 2** <sup>F</sup>

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Movement course: Techniques designed for strength, flexibility, coordination. May be repeated to a maximum of 6 hours.

**Attributes:** EH, FPA

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**DANC 310B - Inter Modern Dance Techniques - 2** <sup>S</sup>

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Movement course: Techniques designed for strength, flexibility, coordination. May be repeated to a maximum of 6 hours.

**Attributes:** EH, FPA

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**DANC 311A - Intermediate Ballet Techniques - 2** <sup>F</sup>

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Additional ballet vocabulary through Barre and Center work of increased difficulty. May be repeated to a maximum of 6 hours.

**Attributes:** FPA

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**DANC 311B - Intermediate Ballet Techniques - 2** <sup>S</sup>

---

Additional ballet vocabulary through barre and center work of increased difficulty. May be repeated to a maximum of 6 hours.

**Attributes:** FPA

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### **DANC 314 - Broadway Dance Styles - 1**

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Movement course: Exploration of various dance styles used in Broadway musicals. Course will use techniques in the jazz, ballet, and modern genres.

**Attributes:** BFPA, DFAH, EH

**Prerequisites:** Undergraduate level DANC 114  
Minimum Grade of C

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### **DANC 410A - Advanced Modern Dance Tech - 2** <sup>F</sup>

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Movement course: Theory and technique. Developing advanced skills in dance movement. Preparing kinetic and artistic abilities for performance. Not for graduate credit. May be taken up to 8 credits.

**Attributes:** FPA

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### **DANC 410B - Advanced Modern Dance Tech - 2** <sup>S</sup>

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Movement course: Theory and technique. Developing advanced skills in dance movement. Preparing kinetic and artistic abilities for performance. Not for graduate credit. May be taken up to 8 credits.

**Attributes:** FPA

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### **DANC 411A - Advanced Ballet - 2** <sup>F</sup>

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Mastery of ballet vocabulary through advanced barre and center floor work. Not for graduate credit. May be repeated to a maximum of 8 hours.

**Attributes:** FPA

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### **DANC 411B - Advanced Ballet - 2** <sup>S</sup>

---

Mastery of ballet vocabulary through advanced barre and center floor work. Not for graduate credit. May be repeated for a maximum of 8 hours.

**Attributes:** FPA

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### **DANC 420A - Dance Composition I - 2**

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Movement studies for solo figure based on exploration of fundamental ingredients of dance and how to organize them into compositional forms.

**Attributes:** FPA

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### **DANC 420B - Dance Composition II - 2**

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In-depth development of movement themes for duet, trio, and larger groups. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level DANC 420A  
Minimum Grade of D

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### **DANC 433 - Dance Pedagogy and Methodology - 2**

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Principles and methodologies of dance instruction. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level DANC 214  
Minimum Grade of D AND Undergraduate level DANC 220 Minimum Grade of D

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### **DANC 460 - Performance/Choreography - 1 to 2**

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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 no topic is repeated. Not for graduate credit. Must have completed all Theater and Dance core courses. This restriction does not apply to non-theater and Dance majors or minors.

**Attributes:** DFAH, FPA

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### **DANC 470 - Independent Study in Dance - 1 to 2** <sup>FS</sup>

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Supervised study for upper level students in dance, choreography or performance. May be repeated to a maximum of 8 hours. NOT FOR GRADUATE CREDIT. Prerequisite: consent of instructor.

**Attributes:** DFAH, FPA

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### **DANC 499 - Senior Assessment in Dance - 3** <sup>S</sup>

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Individual/group projects demonstrating proficiency in dance and general education skills and knowledge. Not for graduate credit. Prerequisite: Senior Dance major.

**Attributes:** DFAH, FPA

**Restrictions:** Must be enrolled in one of the following Majors: Theater and Dance, Must be enrolled in one of the following Classifications: Senior with Degree, Senior, May not be enrolled as the following Levels: Graduate

## Electrical & Comp. Engineering (ECE)

### ECE 145 - Intro 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.

**Attributes:** BICS, SKCP

**Prerequisites:** Undergraduate level MATH 120 Minimum Grade of C OR Undergraduate level MATH 120E Minimum Grade of C

### ECE 198 - ECE Work Experience I - 0 <sup>MS</sup>

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. Student must be a declared major in electrical and computer engineering.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### ECE 199 - ECE Cooperative Educ I - 0 <sup>FMS</sup>

Supervised work experience with agency, firm, or organization which uses engineers. First work period of five year academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### ECE 210 - Circuit Analysis I - 0 to 3 <sup>FMS</sup>

DC and AC steady-state circuit analysis. Loop and nodal analysis, network theorems, phasors, complex power, single-phase and three-phase circuits. Prerequisite: Declared major in engineering discipline; [PHYS 151 or PHYS 211A], [PHYS 151L or PHYS 212A], MATH 150, and MATH 250 with minimum grades of C (concurrent enrollment allowed in MATH 250).

**Prerequisites:** (Undergraduate level PHYS 151 Minimum Grade of C OR Undergraduate level PHYS 141 Minimum Grade of C OR Undergraduate level PHYS 211A Minimum Grade of C) AND (Undergraduate level PHYS 151L Minimum Grade of C OR Undergraduate level PHYS 141L Minimum Grade of C OR Undergraduate level PHYS 212A Minimum Grade of C) AND Undergraduate level MATH 250 Minimum Grade of C (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of C AND Undergraduate level MATH 152 Minimum Grade of C

### ECE 211 - Circuit Analysis II - 0 to 4 <sup>FMS</sup>

Time-domain transient analysis; complex frequency; frequency response; two-port networks; Laplace transform techniques; and impulse response and convolution. Three hours lecture and one laboratory session per week. Prerequisite: Declared major in an engineering discipline, ECE 210, MATH 150, MATH 152, MATH 250 and MATH 305 with minimum grade of C (concurrent enrollment allowed in MATH 305).

**Prerequisites:** Undergraduate level ECE 210 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of C AND Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C

### ECE 282 - Digital Systems Design - 0 to 4 <sup>FMS</sup>

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. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level CS 140 Minimum Grade of C OR Undergraduate level CS 145 Minimum Grade of C

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**ECE 298 - ECE Work Experience II - 0** MS

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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. Student must be a declared major in an engineering discipline.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**ECE 299 - ECE Cooperative Education II - 0** FMS

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Supervised work experience with agency, firm, or organization which uses engineers. Second work period of five year academic/work experience program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**ECE 326 - Electronic Circuits I - 0 to 4** FS

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Introduction to semiconductors; diode, transistor and FET; small and large signal analysis; and logic gate families and design. Three hours lecture and one laboratory session per week. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 211 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C

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**ECE 340 - Engineering Electromagnetics - 0 to 3** FS

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Introduction to engineering electromagnetics. Includes vector analysis, time-harmonic fields, electromagnetic wave propagation, transmission lines, waveguides, antennas. Declared major in engineering discipline.

**Prerequisites:** (Undergraduate level PHYS 152 Minimum Grade of C OR Undergraduate level PHYS 211B Minimum Grade of C) AND (Undergraduate level PHYS 152L Minimum Grade of C OR Undergraduate level PHYS 212B Minimum Grade of C) AND Undergraduate level ECE 211 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C

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**ECE 341 - Princ w/Electro Mec Enrg Conv - 0 to 4** FS

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Basic electromagnetic concepts; energy-based torque and force and calculations; transformers; induction machines; synchronous machines; and DC machines. Three hours lecture and one laboratory session per week. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 340 Minimum Grade of C

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**ECE 351 - Signals and Systems - 3** FS

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Basics of continuous and discrete signals and systems. Convolution; Fourier analysis; filtering; modulation and sampling; and Z-transforms. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 211 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Electrical Engineering

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**ECE 352 - Enginr Probabilty and Stat - 3** FS

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Probability; random variables and probability distributions; statistics; Monte-Carlo simulations; estimation theory; decision theory; hypothesis testing; random processes; and linear system response to random processes. Prerequisite: Declared major in an engineering discipline and ECE 351 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level ECE 351 Minimum Grade of C (concurrency allowed)

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**ECE 365 - Control Systems - 3** FS

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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.

**Prerequisites:** Undergraduate level ECE 351  
Minimum Grade of C

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**ECE 375 - Introduction to Communications - 3** FS

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Time- and frequency-domain analysis; and bandwidth, distortion, and noise. Baseband pulse transmission; sampling; pulse shaping. Digital and analog modulation techniques. Analysis of bit-error probability. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351  
Minimum Grade of C AND Undergraduate level ECE 352 Minimum Grade of C

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**ECE 381 - Microcontrollers - 3** FS

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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.

**Prerequisites:** Undergraduate level ECE 282  
Minimum Grade of C

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**ECE 398 - ECE Work Experience III - 0** FMS

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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. Student must be a declared major in electrical and computer engineering.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

---

**ECE 399 - ECE Cooperative Education III - 0** FMS

---

Supervised work experience with agency, firm, or organization which uses engineers. Third work period of five year academic/work experience

program. Requires consent of advisor.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ECE 404 - ECE Senior Design I - 3** FMS

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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:** Undergraduate level ECE 282  
Minimum Grade of C AND Undergraduate level ECE 351 Minimum Grade of C AND (Undergraduate level ECE 375 Minimum Grade of C OR Undergraduate level ECE 381 Minimum Grade of C)

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**ECE 405 - ECE Senior Design II - 3** FMS

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Realization of senior project designed in 404, including construction, computer simulation, debug, and test as required by project to obtain functional prototype. Not for Graduate credit. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 404  
Minimum Grade of C

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**ECE 426 - High Frequency Design - 3** F

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High frequency circuit design with elements of RF engineering. Amplifiers, oscillators, modulators, impedance matching, switching, signal integrity, and tuning. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 326  
Minimum Grade of C

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**ECE 427 - Knowledge-Based Systems - 3** M

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Engineering-oriented perspective on artificial intelligence (AI) technology. General AI concepts specifically knowledge-based (expert) systems applied to engineering problem-solving. Student must be a declared major in electrical and computer

engineering, and have knowledge of one of the familiar computer programming languages (BASIC, C, Fortran or Pascal).

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### **ECE 428 - Analog Filter Design - 3**

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F

Active and passive filter synthesis. Standard low-pass approximations: Butterworth, Chebyshev, Inverse Chebyshev, Cauer, Bessel and frequency transformations. Active and passive circuit implementations. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351 Minimum Grade of C AND Undergraduate level ECE 326 Minimum Grade of C

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### **ECE 429 - Bioinstrumentation - 3**

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Design and use of biosignal sensors, bioamplifiers, and filters for measuring physiological data; emphasizes origins and characteristics of nerve and heart signals; includes cell analysis and dialysis machine design.

**Prerequisites:** ECE 327 with a C or better; or graduate standing in Engineering.

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### **ECE 433 - Fuzzy Logic and Applications - 3**

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Fundamentals of fuzzy sets, basic operations, fuzzy arithmetic, and fuzzy systems. Examples of applications in various fields of engineering and science. Student must be a declared major in an engineering discipline

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### **ECE 436 - Digital Signal Processing - 3**

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FS

Discrete-time signals and systems; sampling; z-transforms; discrete Fourier transform; difference equations; design and implementation of digital filters; and DSP development systems. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351 Minimum Grade of C

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### **ECE 438 - Image Analysis & Comp Vision - 3**

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F

Image formation, geometrical and topological properties of binary images; image filtering;

boundary detection; image segmentation; and pattern recognition. Two hours lecture and one laboratory session per week. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351 Minimum Grade of C

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### **ECE 439 - Digital Image Processing - 3**

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S

Fundamentals of human perception; sampling and quantization; image transforms; enhancement; and restoration and coding. Two hours lecture and one laboratory session per week. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351 Minimum Grade of C

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### **ECE 441 - Design of Electric Machines - 3**

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Practical design of electrical machines based on finite element analysis.

**Prerequisites:** ECE 341 or equivalent courses with C or better or admission to graduate ENGE program.

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### **ECE 444 - Power Electronics - 3**

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Basics of DC/DC and DC/AC conversion, inductors, transformers, switching characteristics of semiconductor devices, elements of electromagnetic compatibility.

**Prerequisites:** ECE 326 with C or better or admission to graduate Engineering Program.

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### **ECE 445 - Power Distribution System - 3**

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S

Distribution system planning; load characteristics; application of distribution transformers; design of distribution system; voltage-drop and power-loss calculations; voltage regulation; and protection and reliability. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 341 Minimum Grade of C

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### **ECE 446 - Power System Analysis - 3**

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M

Synchronous machines; power transformers; transmission lines; system modeling; load-flow study;

economic operation of power systems; symmetrical components; symmetrical and unsymmetrical faults; and power system stability. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 341  
Minimum Grade of C

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### **ECE 447 - Radar Systems - 3**

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Introduction to radar systems, including antenna fundamentals, radar equation, radar signals and systems, CW radar, FM-CW Radar, pulse radar, and tracking radar. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 340  
Minimum Grade of C AND Undergraduate level ECE 351  
Minimum Grade of C

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### **ECE 455 - System Modeling & Optimization - 3**

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Mathematical modeling of engineering systems; dynamic response of electrical and mechanical systems; and optimization models in electrical engineering. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 351  
Minimum Grade of C

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### **ECE 465 - Control Systems Design - 3**

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Root-locus analysis; frequency-response analysis; design and compensation technique; describing-function analysis of nonlinear control systems; and analysis and design by state-space methods. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 365  
Minimum Grade of C

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### **ECE 466 - Digital Control - 3**

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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. Same as ME 466. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ME 450  
Minimum Grade of C OR Undergraduate level ECE 365  
Minimum Grade of C

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### **ECE 467 - Robotics-Dynamics and Control - 3**

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(Same as ME 454 and MRE 454) Robotics; robot kinematics and inverse kinematics; trajectory planning; differential motion and virtual work principle; and dynamics and control. Student must be a declared major in an engineering discipline and obtain the consent of the instructor.

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### **ECE 475 - Communication Systems - 3**

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Digital transmission through band-limited channels; optimum receiver principles; symbol synchronization; channel capacity and coding; Bandpass digital modulation; and case studies of communication systems. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 375  
Minimum Grade of C

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### **ECE 476 - Electronic Circuits II - 3**

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Small signal analysis, transistor amplifier design, frequency response, feedback system analysis, output stage design, signal generation and waveform shaping circuits. Three hour lecture and one hour laboratory session per week.

**Prerequisites:** Undergraduate level ECE 326  
Minimum Grade of C

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### **ECE 477 - Network Engineering - 3**

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Principles and practices of network engineering with particular emphasis on the physical, data-link, and network layers as applied to telecommunication and computing systems.

**Prerequisites:** Undergraduate level ECE 282  
Minimum Grade of C

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### **ECE 482 - Microprocessor System - 0 to 3**

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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. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 282  
Minimum Grade of C

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**ECE 483 - Advanced Digital Syst Engr - 0 to 3** MS

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Design of digital systems using a hardware description language, and logic synthesis tools. Three hours lecture and one laboratory session per week.

**Prerequisites:** Undergraduate level ECE 282  
Minimum Grade of C

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**ECE 484 - Digital VLSI Design - 3** F

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Discussion of CMOS circuits, MOS transistor theory, CMOS processing technology, circuit characterization, and CMOS Circuit and Logic Design. Student must be a declared major in an engineering discipline.

**Prerequisites:** Undergraduate level ECE 326  
Minimum Grade of C

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**ECE 485 - Embedded Power Electr. Control - 3**

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Practical approach to programming dedicated microprocessor systems, communication links, sensor signal conditioning, gate driver, inner and outer control loops, power startup, and user interface.

**Prerequisites:** Undergraduate level ECE 282  
Minimum Grade of C

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**ECE 491 - Independent Study - 1 to 4** MS

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Individual investigation of a topic in electrical engineering to be agreed upon with the instructor. May be repeated to a maximum of 6 hours provided no topic is repeated. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Computer Engineering, Computer Engineering, Electrical Engineering

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**ECE 492 - Topics in Elect & Comp Engin - 2 to 6** FMS

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Selected topics of special interest. Course schedule will include name of topic. May be repeated to a maximum of 6 hours so long as no topic is repeated. Requires consent of instructor.

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**Economics (ECON)**

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**ECON 111 - Principles of Macroeconomics - 3** FMS

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Measurement and determination of national economic activity including production, income, employment, and prices. Role of government policy in U.S. macroeconomy.

**Attributes:** BSS, ISS

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**ECON 112 - Principles of Microeconomics - 3** FMS

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Principles and characteristics of the market economy including: supply, demand, and market equilibrium; household demand, firm cost and supply; market structure, government regulation and deregulation; and factor markets. IAI Course No. S3 902

**Attributes:** BSS, DSS

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**ECON 301 - Intermed Microeconomic Theory - 3** FS

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Determination of prices and quantities in markets for goods and services. Theories of consumer behavior, cost structures, and factor payments. Firm behavior in alternative markets.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level ECON 112  
Minimum Grade of D AND Undergraduate level MS 251  
Minimum Grade of D

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**ECON 302 - Intermediate Macro Econ. - 3** FS

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Roles of goods markets and financial markets in the determination of national income and inflation; economic growth and business cycles; and fiscal and monetary policy

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D AND  
Undergraduate level MS 251 Minimum Grade of D

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### **ECON 315 - Emp Business Applications - 3**

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Demonstrates the application of popular empirical methods for analyzing data using real-world micro and macro data from different business areas: accounting, economics, finance, management, and marketing.

**Attributes:** BSS, EL

**Prerequisites:** Undergraduate level MS 251  
Minimum Grade of C

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### **ECON 321 - Economic History of the U.S. - 3**

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Analysis of key elements and experiences in U.S. economic development from colonial times to present; evolution of markets; changing role of government and policies.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of C AND Undergraduate level  
ECON 112 Minimum Grade of C

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### **ECON 327 - Soc Ec: Iss in Inc, Emp & Pol - 3** <sup>FM</sup>

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Economic aspects of social problems such as poverty, discrimination and unemployment. Economic analysis of social policies such as social insurance, welfare programs, employment legislation, and taxation.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D

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### **ECON 331 - Labor Economics - 3**

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An analysis of labor force participation, employment, wage determination, economic stability, investment in human capital; trade unionism; and collective bargaining and public policy.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111

Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D

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### **ECON 341 - Topics In Economics - 3** <sup>S</sup>

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Selected topics in economics. May be repeated up to 6 hours provided no topic is repeated.

**Attributes:** BSS, DSS

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### **ECON 343 - Money and Banking - 3**

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The role of money and banking in modern economies, the monetary policy process, regulation and supervision of the financial system, and internationalization of financial markets.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of C

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### **ECON 345 - Econs of the Pub Sector: Nat - 3**

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Role of government in U. S. economy; federal expenditures, revenue, and debt; and evaluation of government policy including analysis of taxes, grants, public services.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D

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### **ECON 350 - Economics and Ethics - 3**

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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.

**Attributes:** BSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of C AND Undergraduate level  
ECON 112 Minimum Grade of C

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### **ECON 361 - Intro to International Econ - 3** <sup>S</sup>

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Survey of causes and composition of trade between nations; barriers to trade; balance of payments; foreign exchange markets; and international monetary markets and policy.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D

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### **ECON 411 - Health Economics - 3**

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Understanding the economics of health outcomes and in the choice and provision of healthcare. Emphasis on healthcare service and insurance market effectiveness, regulation of these markets, and international comparison of healthcare systems.

**Attributes:** EH, SS

**Prerequisites:** Undergraduate level ECON 301  
Minimum Grade of C

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### **ECON 415 - Econometrics - 3**

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Empirical research methodology and ethics. Hypothesis testing and predicting with OLS regression. Estimation with violations of classical assumptions. Multicollinearity problems; dummy variables; and model specification. Will not count toward MA or MS in Economics and Finance.

**Attributes:** SS

**Prerequisites:** Undergraduate level ECON 315  
Minimum Grade of C

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### **ECON 416 - SAS Base Programming - 3**

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Reading data from various file formats into SAS and creating new variables. Creating new SAS data sets by subsetting, merging, and restructuring existing data sets. Creating reports in list and HTML format.

**Attributes:** SS

**Prerequisites:** Undergraduate level MS 251  
Minimum Grade of C OR Undergraduate level MATH 150 Minimum Grade of C

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### **ECON 417 - Business Forecasting - 3**

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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.

**Attributes:** SS

**Prerequisites:** Undergraduate level ECON 315  
Minimum Grade of C

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### **ECON 428 - Applied Microeconomics - 3**

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This course applies microeconomic theory to business decision making. Focus is on applications/cases; and understanding how to apply economic tools to variety of business problems.

**Attributes:** SS

**Prerequisites:** Undergraduate level ECON 301  
Minimum Grade of C

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### **ECON 429 - Macroeconomic Analysis - 3**

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Covers current macroeconomic events with policy applications. It allows students to follow analysis of macroeconomic news in business newspapers such as The Wall Street Journal and The Financial Times.

**Attributes:** SS

**Prerequisites:** Undergraduate level ECON 302  
Minimum Grade of C

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### **ECON 431 - Econ of Labor & Human Capital - 3**

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Applications of labor economic theory. Particular emphasis on human capital development and impacts of discrimination on employment outcomes.

**Prerequisites:** Undergraduate level ECON 301  
Minimum Grade of C

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### **ECON 435 - Competition and Public Policy - 3**

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Economic implications of alternative market structures. Investigation of impact of concentration, economies of scale, advertising, and conglomerates on business and society.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 301  
Minimum Grade of D

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### **ECON 439 - Economics of Sports - 3**

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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 Finance.

**Attributes:** SS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of C AND Undergraduate level  
ECON 112 Minimum Grade of C AND  
Undergraduate level MS 250 Minimum Grade of C  
AND Undergraduate level MS 251 Minimum Grade  
of C

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### **ECON 445 - Econ Pub Sec: State/Local - 3**

Public expenditure and taxation; intergovernmental  
fiscal relations; budgeting; grants; and public choice.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level ECON 111  
Minimum Grade of D AND Undergraduate level  
ECON 112 Minimum Grade of D

---

### **ECON 461 - Inter Trade Theory and Policy - 3**

Theory of causes and composition of trade;  
comparative advantage; tariff and non-tariff barriers  
to trade; economic integration; and commercial  
policy.

**Attributes:** BSS, DSS, EGC, II, SAB

**Prerequisites:** Undergraduate level ECON 301  
Minimum Grade of D OR Graduate level ECON 518  
Minimum Grade of C

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### **ECON 490 - Independent Study in Economics - 1 to 6**

Investigation of topic areas. Individual or small  
group readings under supervision of faculty member.  
Requires consent of department chair or program  
director. Will not count toward MA or MS in  
Economics and Finance.

**Attributes:** SS

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### **ECON 491 - Senior Project - 1**

Writing assignment to fulfill senior assignment.  
Economic majors must take 491 or 492. Grade of C  
or higher required for major. Not for graduate  
credit.

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### **ECON 492 - Senior Honors Thesis - 3**

Senior honors thesis to fulfill senior assignment.  
Economic majors must take 491 or 492. Grade of C  
or higher required for major. Not for graduate  
credit.

## **Education Foundations (EDFD)**

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### **EDFD 355 - Philosophy of Education - 3**

Examination of function of education in connection  
with principles of justice, equity, and freedom.

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### **EDFD 451 - Gender and Education - 3**

Policies and practices related to sex-role  
stereotyping; teacher expectations and gender;  
curricular bias; discrimination; personnel policies;  
and strategies for change. Course satisfies the  
general education requirement in intergroup  
relations. Same as WMST 451.

## **Education (EDUC)**

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### **EDUC 305 - Educational Psychology - 1 to 3**

Human learning and development as applied to  
school environment. Emphasis on cognitive  
processes, cognitive development, behavior, and  
classroom evaluation.

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### **EDUC 381 - Educ in Multicultural Society - 1**

Introduction to pluralism in America and the multi-  
cultural educational programs that will enhance  
cultural relationships in schools. Concurrent  
enrollment with EDFD 380 except by consent of  
instructor.

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### **EDUC 405 - 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: EDUC 305, EDFD  
381 or graduate standing.



## English Language & Literature (ENG)

### ENG 100G - Writing Lab-Grammar - 1 FMS

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Computerized self-instructional materials for improving writing. GRM is prerequisite to 100R (Rhetoric). Not for English majors or minors.

### ENG 100R - Writing Lab-Rhetoric - 1 FS

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Computerized self-instructional materials for improving writing. Eng 100G is the prerequisite to Eng 100R. Not for English majors or minors.

**Prerequisites:** Undergraduate level ENG 100G  
Minimum Grade of D

### ENG 101 - English Composition I - 3 FMS

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Instruction and practice in analyzing and composing the academic expository essay.

**Attributes:** FW1, SKW1

**Prerequisites:** ACT English score of 21 or higher; or placement score; and/or completion of AD 090a/b or AD 092 with grade of C or better and AD 080, 082 or AD 116.

**Restrictions:** Must be enrolled in one of the following Classifications: Freshman, 1st Semester

### ENG 101N - Eng. Comp: Non-Native Speakers - 3 F

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Instruction and practice in expository writing, including the paragraph and short essay. Course is a general education skills course. Requires consent of advisor.

**Attributes:** FW1, SKW1

### ENG 102 - English Composition II - 3 FMS

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Builds upon the analytical and writing skills developed in 101 with emphasis on argumentation and critical synthesis of information based on research.

**Attributes:** FW2, SKW2

**Prerequisites:** Undergraduate level ENG 101  
Minimum Grade of C

### ENG 102N - Eng. Comp: Non-Native Speakers - 3 S

---

Instruction and practice in expository writing, including the essay and research paper. Course is a general education skills course. Requires consent of advisor.

**Attributes:** FW2, SKW2

**Prerequisites:** Undergraduate level ENG 101  
Minimum Grade of C OR Undergraduate level ENG 101N Minimum Grade of C

### ENG 111 - Introduction to Literature - 3 FMS

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Representative works in world drama, fiction, and poetry. Development of appreciation of literature by understanding themes, purposes, techniques, and history. [IAI Course No. H3 900]

**Attributes:** BHUM, EGC, IFAH, LIT

**Prerequisites:** Undergraduate level ENG 101N  
Minimum Grade of D OR Undergraduate level ENG 101 Minimum Grade of D

### ENG 200 - Introduction to Literary Study - 3 FS

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Required of majors. Focuses on literary genres, terminology, and close reading. Strongly recommended as a prerequisite for other course work. Required of English majors and minors; open to prospective English majors and minors.

**Attributes:** HUM

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): English, American and English Lit, Teaching Eng as 2nd Language, Teach of Writing, Tch Eng 2nd Lang

### ENG 201 - Intermediate Composition - 3 FS

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Builds upon skills developed in ENG 102. Useful for students across disciplines. Focuses on writing for the rhetorical demands of discipline-specific academic audiences and purposes.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

### ENG 202 - Studies in Drama - 3

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Reading and discussion of classic examples of ancient and modern drama, with attention to themes, techniques and cultural significance. [IAI Course No. H3 902]

**Attributes:** BHUM, DFAH, EGC, LIT

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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### ENG 203 - Studies in Poetry - 3

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Reading and discussion of selected examples of British and American poetry; recent and traditional. [IAI Course No. H3 903]

**Attributes:** BHUM, DFAH, EUSC, LIT

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### ENG 204 - Studies in Fiction - 3

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FS

Reading and discussion of selected major examples of modern fiction, the short story to the novel. Attention to themes and techniques. [IAI Course No. H3 901]

**Attributes:** BHUM, DFAH, LIT

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### ENG 205 - Intro to Afr. American Texts - 3

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FMS

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.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

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### ENG 206 - Introduction to Film Genre - 3

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Introduces students to a variety of film genres and develops skills in film appreciation.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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### ENG 207 - Language Awareness - 3

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F

Introductory course in the nature of language. Focus on English language; what language is; and how people use it.

**Attributes:** BICS, DFAH, EGC, EUSC

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### ENG 208 - Topics in Early British Lit - 3

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F

The in-depth study of a variety of early British literary works. Topic varies.

**Attributes:** BHUM, DFAH, EGC, LIT

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### ENG 209 - Topics in Modern British Lit - 3

---

S

The in-depth study of a variety of modern British literary works. Topic varies.

**Attributes:** BHUM, DFAH, EGC, LIT

---

### ENG 211 - Topics in Early American Lit - 3

---

F

The in-depth study of a variety of early American literary works. Topic varies.

**Attributes:** BHUM, DFAH, EUSC, LIT

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### ENG 212 - Topics in Modern American Lit - 3

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FS

The in-depth study of a variety of modern American literary works. Topic varies.

**Attributes:** BHUM, DFAH, EUSC, LIT

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### ENG 214 - Topics in World Lit: Anct- Medv - 3

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F

The in-depth study of a variety of works in ancient and medieval world literatures. Topic varies.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### ENG 215 - Topics in World Lit: Ren-Moder - 3

---

S

The in-depth study of a variety of works in Renaissance through modern world literatures. Topic varies.

**Attributes:** BHUM, DFAH, EGC, IC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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### ENG 290 - Intro to Creative Writing - 3

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FMS

Provides an introduction to the basic genres of creative writing (fiction, poetry, drama, and creative non-fiction) with an emphasis on craft and the writing process.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman

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**ENG 301 - Intro to Lit. Theory & Crit. - 3** FMS

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Selected literary theories, types of criticism, and theorists. Practice in interpreting and writing about literature, and in application of research methods. Open to English majors only.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level ENG 200  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): English, American and English Lit, Teaching Eng as 2nd Language, Teach of Writing, Tch Eng 2nd Lang

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**ENG 306 - Introduction to the Bible - 3** S

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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.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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**ENG 307 - Introduction to Shakespeare - 3**

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Shakespeare's life, the Elizabethan theater, and representative plays and poems. [IAI Course No. H3 905]

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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**ENG 309 - Popular Literature - 3**

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Analysis of literature which has influenced and been influenced by popular culture. May be repeated up to 6 hours provided no topic is repeated.

**Attributes:** BHUM, DFAH, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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**ENG 310 - Class. Myth. & Its Influence - 3**

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Major Greek and Roman myths: origin, nature, interpretations, and use in the modern world.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of D

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**ENG 315 - Literature and Sustainability - 3**

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Considers sustainability in an environmental, economical, cultural and/or political context in literature. Topics range from nature, animals, farming, resource scarcity, food, and social justice.

**Attributes:** BHUM, DFAH, EUSC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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**ENG 318 - Language Endangerment - 3**

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An introduction to the concept of linguistic diversity as well as the socio-political and economic factors presenting threats to this diversity.

**Attributes:** BHUM, EGC, IC

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**ENG 332 - Argument - 3** F

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Students will investigate argument history, strategy, and theory; analyze arguments and rhetorical situations-rhetor, audience, purpose, context; and compose and evaluate argumentative prose.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

**ENG 333 - The Rhetoric of Videogames - 3**

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Introduction to investigation of theory, history, practices, applications of videogames. Examination of games, gamers, and gaming culture. Videogame play and reflection. Analysis/creation of videogames.

**Attributes:** BICS, EUSC

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

**ENG 334 - Scientific Writing - 3** S

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Offers students experience in researching, writing,

structuring and revising scientific documents.  
Designed for science and English majors or minors.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 340 - Topics in Global Literatures - 3**

Global literatures from antiquity to present; social, political, historical, and philosophical problems reflected in literature.

**Attributes:** BHUM, DFAH, EGC, IC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 341 - Afr. American Women's Writing - 3** <sup>F</sup>

Poems, novels, short stories, essays, dramas, autobiography and other texts by African American women writers during various periods from colonial to contemporary times. [IAI Course No. H3 910d]  
Cross-listed with Women's Studies 341.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

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### **ENG 342 - Topics in Afr. Am. Lit. - 3** <sup>S</sup>

Variable topics course exploring trends in African American literature across literary time periods.  
May repeat up to 6 hours with new topic.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 343 - Tpcs in Afr Am Rhet & 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 hours provided no topic is repeated.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 344 - Topics in Ethnic Literature - 3**

This course will examine ethnic literatures from a socio-economic, political and historical context. Students will investigate issues of Diaspora, class, gender, and resistance in literatures often marginalized. May be repeated up to 6 hours provided no topic is repeated.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 345 - Afr Am Poetry & Folklore - 3**

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 hours provided no topic is repeated.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

---

### **ENG 369 - Grammatical Analysis - 3** <sup>FS</sup>

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.

**Attributes:** BICS, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 370 - Morphological Analysis - 3**

An introduction to the analysis of the internal structure of words and the processes of inflection, derivation, and word formation found in human languages.

**Attributes:** BICS, DFAH, EGC, EUSC, HUM

---

### **ENG 392 - Fiction Writing - 3** <sup>FS</sup>

Short story writing, with special emphasis on plot, point of view, description, dialogue, and other elements in the rhetoric of fiction. Workshop format.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level ENG 290  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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### ENG 393 - Poetry Writing - 3

FS

Writing of poetry and study of poetic fundamentals, including form, imagery, figurative language, and speaker. Workshop setting for critiques of student work.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level ENG 290  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

---

### ENG 394 - Playwriting - 3

Provides a close acquaintance with a range of theatrical strategies explored by playwrights, and a workshop forum for the development of student's own writing.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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### ENG 400 - Principles of Linguistics - 3

F

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.

**Attributes:** BICS, DFAH, EGC, EUSC, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### ENG 403 - History of English Language - 3

Historical survey of major phonological and grammatical changes in English language from its Indo-European antecedents to the present.

**Attributes:** BICS, DFAH, EGC, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### ENG 404 - Chaucer: Canterbury Tales - 3

The Canterbury Tales read in Middle English.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### ENG 405 - Pragmatics - 3

Study of principles controlling how implicit levels of meaning are expressed in language and how context influences the interpretation of meaning.

**Attributes:** BICS, HUM

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### ENG 406 - Old English Language - 3

Sounds, grammar, and vocabulary of the Old English language, including readings in Old English poetry and prose.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### ENG 408 - Phonological Analysis - 3

Principles of linguistic analysis and interpretation as applied to sound systems of language.

**Attributes:** BICS, DFAH, EGC, EUSC, HUM

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### ENG 409 - Syntactic Analysis - 3

Principles of syntactic analysis and interpretation as applied to clause and sentence level structures.

**Attributes:** BICS, DFAH, EGC, EUSC, HUM

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### ENG 410 - Rhetoric, Writing, Citizen - 3

S

Examination of rhetoric's role in US citizenship both past and present. Students will write analytical and persuasive documents. Service learning project required.

**Attributes:** BICS, DFAH, EUSC

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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### ENG 411 - Internship in Writing - 3

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Involvement in developing workplace writing.  
Supervised by selected faculty member and  
cooperating site. NOT FOR GRADUATE CREDIT.

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** Must be enrolled in one of the  
following Classifications: Junior, Senior with Degree,  
Senior

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### ENG 412 - Digital Literacies - 3

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Students will investigate digital literacy - electronic  
technologies, discursive practices, and cyberspaces.  
Analysis and assessment of digital artifacts, cultures,  
and texts.

**Attributes:** BICS, DFAH, EGC, HUM

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

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### ENG 416 - Language and Society - 3

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Study of relationships between language, society,  
and culture, and their implications for education and  
intercultural communication. Topics include  
language variation, socialization, and ethnography of  
communication.

**Attributes:** BICS, EGC, EUSC, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### ENG 417 - Language and Ethnicity - 3

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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.

**Attributes:** BICS, DFAH, EGC, EUSC, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,

Sophomore

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### ENG 420 - Topics in Film Studies - 3

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Variable topics course focusing on the history and  
aesthetic development of one or two film genres,  
styles or historical periods.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### ENG 443 - Prosody - 3

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Students will both study and write metrical poetry.  
All aspects of versification will be considered. For  
both literature majors and creative writing minors.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### ENG 444 - Creative Nonfiction - 3

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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.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level ENG 290

Minimum Grade of D

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### ENG 445 - Young Adult Literature - 3

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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.

**Attributes:** HUM

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 446 - Studies in Afr. American Lit. - 3** F

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This course will examine the 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.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ENG 457 - Postcolonial Lit & Criticism - 3**

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Examination of postcolonial texts-novels, plays, poem, 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.

**Attributes:** BHUM, DFAH, EGC, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ENG 463 - Topics in Literary Periods - 3**

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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. Junior standing or consent of instructor.

**Attributes:** BHUM, DFAH, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore, Must be enrolled in one of the following  
Levels: Graduate, Undergraduate

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**ENG 464 - Topics in Forms and Genres - 3**

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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.

Junior standing or consent of instructor.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ENG 465 - Special Topics - 3**

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Special topics in literature, linguistics, rhetoric and composition, and creative writing. May be repeated once for a maximum of six hours provided no topic is repeated. Prerequisite: ENG 102 with a C or better; junior standing or consent of instructor.

**Attributes:** DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**ENG 468 - Second Language Acquisition - 3**

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Examination of issues and theories applicable to understanding process of second language development.

**Attributes:** BICS

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**ENG 470 - Meth & Matls: P-12 ESL & Bilin - 3**

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Examination of techniques and materials for teaching dual-language and English Learners in P-12 settings.

**Attributes:** BICS, EUSC

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**ENG 471 - Shakespeare - 3**

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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.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore, Must be enrolled in one of the following

Levels: Graduate, Undergraduate

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### **ENG 472 - Assessment and Testing in ESL - 3**

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Examination of issues and methods for assessing oral and written proficiency in English as a Second Language.

**Attributes:** BICS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 473 - Milton - 3**

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Paradise Lost and other works such as Samson Agonistes, Paradise Regained, Lycidas, Comus, and selected prose.

**Attributes:** BHUM, DFAH, EGC, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 474 - Bilingualism & Bilingual Ed. - 3**

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An introduction to cognitive, linguistic, and social perspectives on bilingualism; and the history and politics of bilingual education in the U.S.

**Attributes:** BICS, EUSC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 475 - Mthds of Tchng Sec Eng: Lit & - 3** <sup>F</sup>

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Approaches to and issues in teaching literature and culture at the secondary level. Must be seeking secondary ELA certification.

**Attributes:** LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Master of Arts in Teaching, English, American and English Lit, Teach of Writing, May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 476 - Practicum in Eng As 2nd Lang. - 3**

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This course is designed for students who need to gain supervised experience teaching English as a second language for the purposes of the state English as a second language enrollment.

**Prerequisites:** Undergraduate level ENG 470  
Minimum Grade of D OR Undergraduate level ENG 542 Minimum Grade of D

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### **ENG 477 - Morrison - 3**

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Reading and analysis of the works of major contemporary American author Toni Morrison.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore, Must be enrolled in one of the following  
Levels: Graduate, Undergraduate

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### **ENG 478 - Studies in Women, Lang. & Lit. - 3** <sup>FS</sup>

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Relationships among society, gender, language, and literature; ways women are affected by and depicted in language and literature; literature written by women; and feminist criticism. Topic varies; may be repeated to a maximum of 6 hours so long as topic is not repeated.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 479 - Major Authors: Shared Traditns - 3** <sup>FM</sup>

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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 as long as authors and topic are not repeated.

**Attributes:** BHUM, DFAH, LIT

**Prerequisites:** Undergraduate level ENG 102



Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore, Must be enrolled in one of the following  
Levels: Graduate, Undergraduate

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### **ENG 480 - Maj Authrs: Crossng Boundaries - 3**

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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.

**Attributes:** BHUM, DFAH, EUSC, IGR, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore, Must be enrolled in one of the following  
Levels: Graduate, Undergraduate

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### **ENG 482 - Technology & Literature - 3**

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Analysis of digital theory, electronic environments, hypertextual editing, and born-digital literatures.

**Attributes:** BICS, LIT

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **ENG 485 - Mthds of Tchng Sec Eng: Comp & - 3**

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Approaches to and issues in teaching composition and language usage at the secondary level. Must be seeking secondary ELA certification.

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Master of Arts in Teaching, English, Teaching Eng as 2nd Language, Teach of Writing, Tch Eng 2nd Lang, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **ENG 486 - Teaching Creative Writing - 3**

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Seminar on the teaching of creative writing, with an emphasis on poetry and/or fiction.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **ENG 488 - Rhetoric, Politics, & the Law - 3**

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Rhetorical figures, political texts and speeches, law and policies, from classical origins to today. Analysis of persuasion, reason, style, fallacy, rhetorical situation and context.

**Attributes:** BHUM, DFAH, EGC

**Prerequisites:** ENG 102 with a C or better or graduate standing (GM).

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### **ENG 489 - Style and Intentionality - 3**

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A writing course on the study of style. The aim: to study stylistic conventions and innovations. The course is both theoretical and practical.

**Attributes:** DFAH, HUM

**Restrictions:** Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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### **ENG 490 - Advanced Composition - 3**

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FS

Writing sophisticated expository prose. Review of grammatical matters as needed. Emphasis on clarity, organization, effectiveness, and flexibility. May be repeated once for a max of 6 hours with permission.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level ENG 102  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **ENG 491 - Technical and Business Writing - 3**

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FMS

Technical communication, professional correspondence, reports, proposals, descriptions, and evaluations. Word processing and graphics software. For students in English, business, engineering, nursing, the sciences, and the social

sciences.

**Attributes:** BICS

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 492 - Advanced Fiction Writing - 3** FS

Advanced seminar in short story writing. Includes readings in fiction and a study of the psychology of creativity, fiction markets, and experimental fiction. Workshop format.

**Attributes:** FPA

**Prerequisites:** Undergraduate level ENG 392

Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 493 - Advanced Poetry Writing - 3** S

Advanced workshop in writing poetry. Examination of poetic expression.

**Attributes:** FPA

**Prerequisites:** Undergraduate level ENG 393

Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 494 - Literary Editing - 3** F

Principles of literary editing, primarily of fiction and poetry.

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 496 - Scholarly and Critical Editing - 3**

Editorial preparation of copy for scholarly and critical journals in English language and literature.

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**ENG 497A - Senior Seminar - 3** FS

Required of majors. A variable topics course providing intensive study of a specialized topic. Includes a substantial research paper. Not for Graduate Students.

**Prerequisites:** Undergraduate level ENG 301  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): English, American and English Lit, Teaching Eng as 2nd Language, Teach of Writing, Tch Eng 2nd Lang, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**ENG 498 - Creative Writing with Research - 3**

Multi-genre investigation into a variety of ways creative writers engage in research to enhance their work. Students will complete an ambitious semester-long writing project. NOT FOR GRADUATE CREDIT.

**Prerequisites:** Undergraduate level ENG 392  
Minimum Grade of C OR Undergraduate level ENG 393  
Minimum Grade of C

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**ENG 499 - Readings in English - 1 to 3**

Independent study in specific area of interest. Extensive reading. For English students only; may be repeated to a maximum of 6 hours. Requires consent of department chair and instructor.

**Environmental Sciences (ENSC)**

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**ENSC 111 - Environment and Sustainability - 3**

Biological, chemical, physical, political, and social aspects of environmental problems; Sustainability in food production, energy use, conservation, and resource management; Current major environmental challenges.

**Attributes:** BPS, II

### **ENSC 120 - Survey of Env. Sciences - 1**

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Survey of the biological, chemical, physical, political and social interactions which constitute environmental problems and the consequences of proposed solutions.

### **ENSC 125 - Topics of Environmental Health - 2**

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Naturally occurring and anthropogenic toxicants can cause adverse environmental impacts. Provides the fundamental information concerning the effects of environmental toxicants on living organisms.

**Attributes:** BPS, DNSM

### **ENSC 210 - Applied Research Methods - 3**

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Research methods for the analysis of environmental problems. Survey research and other data collection techniques. Collection, interpretation, and critical evaluation of data.

**Attributes:** BPS, DNSM

### **ENSC 220 - Princ of Environmental Science - 3**

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System approaches to policy of air, soil and water environments; land use; energy supplies; and other resources using biological, ecological, physical, and chemical principles.

**Attributes:** BPS, DNSM

### **ENSC 220L - Princ of Environmental Sci Lab - 1**

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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.

**Attributes:** BPS, DNSM, EL, LNSM

**Corequisites:** ENSC220

### **ENSC 325A - Toxicants in the Environment I - 3**

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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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level ENSC 220  
Minimum Grade of D

### **ENSC 325B - Toxicants in the Environment II - 3**

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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.

**Attributes:** BPS, DNSM, EL

**Prerequisites:** Undergraduate level ENSC 325A  
Minimum Grade of D

### **ENSC 330 - Env. Health & Waste Mgmt - 3**

---

Introduction to human health effects of environmental hazards of a biological or physical nature in food, water, soil, animals and wastes.

**Attributes:** DNSM, EGC, II, LS

**Prerequisites:** (Undergraduate level CHEM 111 Minimum Grade of D AND Undergraduate level BIOL 111 Minimum Grade of D) OR Undergraduate level BIOL 120 Minimum Grade of D OR (Undergraduate level BIOL 150 Minimum Grade of D OR Undergraduate level BIOL 151 Minimum Grade of D)

### **ENSC 340 - Ecosystem Mgmt. & Sustain. - 3**

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Management of natural resources through the adaptive and community-based conservation approaches, with an emphasis on developing sustainable ecosystems.

**Attributes:** BLS, DNSM

**Prerequisites:** Undergraduate level BIOL 111  
Minimum Grade of D

### **ENSC 401 - Environmental Policy - 3**

---

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.

**Attributes:** BSS

**Prerequisites:** Undergraduate level ENSC 220  
Minimum Grade of D

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### **ENSC 402 - Environmental Law - 3**

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F

Principal issues in environmental law and the judicial interpretation of important environmental statutes.

**Attributes:** DSS, SS

**Prerequisites:** Undergraduate level ENSC 220  
Minimum Grade of D

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### **ENSC 404 - Regional Environment Planning - 3**

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Interrelationships between regions, environments, and planning.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **ENSC 411 - Hydrology - 3**

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F

Hydrologic cycle; major stream systems; and uses of water resources and their relationships to quality and future supplies. Same as GEOG 411

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level GEOG 111  
Minimum Grade of D

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### **ENSC 412 - Groundwater Hydrology - 3**

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Study of groundwater: occurrence; physical and chemical properties; flow and flow system modeling; relation to rock structure and lithology; and contamination of groundwater resources.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level GEOG 310  
Minimum Grade of D AND Undergraduate level CHEM 113 Minimum Grade of D

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### **ENSC 419 - Science, Experts & Pub. Policy - 3**

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Analysis of factors affecting the influence of scientists, planners, and other experts in policy-making. Several cases and controversies will be examined.

**Prerequisites:** Undergraduate level ENSC 340  
Minimum Grade of D

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### **ENSC 426 - Environmental Geochemistry - 3**

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Study of exogenic environment as a geochemical system, natural circulation of water, sediment, carbon, sulfur, nitrogen, and phosphorus; and assessment of human activities on these cycles.

**Attributes:** DNSM, LS

**Prerequisites:** Undergraduate level GEOG 310  
Minimum Grade of D AND Undergraduate level CHEM 113 Minimum Grade of D

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### **ENSC 431 - Environmental Toxicology - 3**

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F

Chemical and biological effects of toxic substances in living organisms at the molecular and biological levels. Topics include: routes of entry, mechanism of action, effects, and antidotes. (Same as CHEM 471)

**Prerequisites:** Undergraduate level CHEM 120A  
Minimum Grade of D AND Undergraduate level CHEM 120B Minimum Grade of D AND Undergraduate level BIOL 150 Minimum Grade of D

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### **ENSC 431L - Environmental Toxicology Lab - 1**

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Laboratory exercises of common experimental approaches and chemical analysis techniques used in assessing effects of environmental toxicants on different levels of organisms functions.

**Attributes:** EL

**Prerequisites:** Undergraduate level CHEM 120A  
Minimum Grade of D AND Undergraduate level CHEM 120B Minimum Grade of D AND (Undergraduate level ENSC 431 Minimum Grade of D (concurrency allowed) OR Undergraduate level CHEM 471 Minimum Grade of D (concurrency allowed))

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### **ENSC 432 - Molecular Toxicology - 3**

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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:** Undergraduate level BIOL 319  
Minimum Grade of D OR Undergraduate level CHEM

471 Minimum Grade of D OR Undergraduate level  
ENSC 431 Minimum Grade of D

### **ENSC 434 - Aquatic Ecotoxicology - 3**

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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:** Undergraduate level ENSC 220  
Minimum Grade of D AND Undergraduate level  
ENSC 330 Minimum Grade of D

### **ENSC 435 - Ecological Risk Assessment - 3**

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Introduction to science behind environmental policy/regulations. Application of ecology, chemistry, and toxicology to assess present and future pollution risks to populations, communities ecosystems.

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of D AND Undergraduate level  
ENSC 431 Minimum Grade of D

### **ENSC 436 - Environmental Epidemiology - 3**

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Basic biology of microorganisms, characteristics of microbial diseases, epidemiology and infection control, examples of infectious diseases acquired through inhalation, ingestion, and skin mucous membranes.

**Prerequisites:** Undergraduate level ENSC 220  
Minimum Grade of D AND Undergraduate level  
ENSC 330 Minimum Grade of D

### **ENSC 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.

**Prerequisites:** Undergraduate level ENSC 220  
Minimum Grade of D AND Undergraduate level  
ENSC 330 Minimum Grade of D

### **ENSC 440 - Sustainable Practices - 3**

---

Practices that meet the needs of the present generation without compromising the ability of future generations to meet their needs.

**Prerequisites:** Undergraduate level ENSC 330  
Minimum Grade of D AND Undergraduate level  
ENSC 340 Minimum Grade of D

### **ENSC 445 - Conservation Biogeography - 3**

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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.

**Attributes:** LS

**Prerequisites:** Undergraduate level GEOG 316  
Minimum Grade of D

### **ENSC 450 - Applied Ecology - 3**

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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. (Same as BIOL 464)

**Prerequisites:** Undergraduate level BIOL 365  
Minimum Grade of C

### **ENSC 465 - Aquatic Ecosystems - 4**

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Biogeochemistry and community structure of aquatic systems. Three lectures one three-hour laboratory per week.

**Attributes:** DNSM, EL, LNSM, LS

**Prerequisites:** Undergraduate level BIOL 151  
Minimum Grade of C AND Undergraduate level  
CHEM 121B Minimum Grade of C

### **ENSC 466 - Terrestrial Ecosystems - 3**

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Community structure, biogeochemistry and historical development of terrestrial ecosystems. Two lectures, one three-hour laboratory per week. Prerequisite: One semester of botany or consent of instructor.

**Attributes:** DNSM, EL, LS

**Prerequisites:** Undergraduate level BIOL 220  
Minimum Grade of D

### **ENSC 472 - Topics in Plant Physiology - 4**

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Topics include photosynthesis, mineral nutrition, water as related to plants growth and movement of

plants. Two lectures and two laboratories per week. Requires completion of one semester of botany or consent of instructor.

**Attributes:** LS

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### **ENSC 473 - Occupational Health - 3** F

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Concepts and details regarding occupational health. Requires completion of at least one year of college chemistry.

**Attributes:** DNSM, LS

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### **ENSC 475 - Chemical Safety Management - 3**

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Concepts and details regarding safe use and handling of chemicals as recommended by safety professionals. Requires completion of at least one year of college chemistry.

**Attributes:** BPS, DNSM

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### **ENSC 477 - Industrial Risk Monitoring - 3**

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Principles of health surveillance and monitoring assessment of occupational exposures to contaminants and non-chemical factors.

**Prerequisites:** Undergraduate level ENSC 220 Minimum Grade of D AND Undergraduate level ENSC 330 Minimum Grade of D

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### **ENSC 490 - Senior Assignment - 1**

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Demonstration of proficiency in environmental sciences. Not for graduate credit.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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### **ENSC 491 - Readings in Env. Science - 1 to 3**

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Coordinated readings with faculty in the areas of science, politics, law, education, technology, and other environmental areas. May be repeated for a maximum of 4 credit hours. For declared minors only or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Environmental Sciences

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### **ENSC 495 - Topics in Env. Sciences - 1 to 3**

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Advanced topics in environmental sciences. An in-depth examination of a selected topic. May be repeated to maximum of 6 hours provided no topic is repeated. Requires consent of instructor or program director.

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### **ENSC 497 - Env Health Practicum - 1 to 3**

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Internships in non-governmental or governmental organization, providing job experience for a career as an environmental health professional.

**Restrictions:** Must be enrolled in one of the following Concentrations: Environmental Health, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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### **ENSC 498 - Senior Project - 1** S

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Senior research, in which students work intensively on individual or group research projects. Background information, data collection, data analysis, integration, and interpretation.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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### **ENSC 499 - Research in ENSC - 1 to 3** S

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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:** Undergraduate level ENSC 210 Minimum Grade of D AND Undergraduate level ENSC 220 Minimum Grade of D

### **Educ Psych, Found, & Research (EPFR)**

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### **EPFR 315 - Educational Psychology - 3**

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Human learning and development as applied to school environment. Emphasis on cognitive processes, cognitive development, behavior, and classroom evaluation.

**Attributes:** SS

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**EPFR 320 - Found of Ed A Multi Soc - 3**

F

Philosophical, historical, social and cultural foundations of education in a multicultural society with an emphasis on understanding education in context to improve teaching practice.

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**EPFR 415 - The Middle Sch 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, 321 or graduate standing.

**Prerequisites:** Undergraduate level EPFR 315 Minimum Grade of D AND Undergraduate level EPFR 320 Minimum Grade of D

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**EPFR 451 - Gender and Education - 3**

S

Policies and practices related to sex-role stereotyping; teacher expectations and gender; curricular bias; discrimination; personnel policies; and strategies for change. Same as WMST451

**Attributes:** EUSC, IGR

**Earth Science (ESCI)**

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**ESCI 111 - Intro to Phys Geol&Geog - 3**

FMS

Physical geology and geography of the solid earth. Hydrologic system, weathering, soils, landforms, sedimentary rocks. Tectonic system, magmatism, igneous rocks, crustal deformation, metamorphism. [IAI Course No. P1 905]

**Attributes:** BPS, EL, INSM

**Fine Arts & Communication (FAC)**

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**FAC 350 - Spe Tpcs i/FA & Communications - 1 to 4**

Topics in areas not offered in departmental curriculum with emphasis on interdisciplinary studies. Varied content. May be repeated to a maximum of 12 hours. Requires consent of instructor.

**Attributes:** DFAH

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**FAC 450 - Spe Top in FA & Comm - 1 to 4**

Topics in areas not offered in departmental curriculum with emphasis on interdisciplinary studies. Varied content. May be repeated to a maximum of 12 hours. Not for graduate credit. Requires consent of instructor.

**Attributes:** DFAH

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**FAC 495 - Intnshp in FA & 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. Requires consent of department chair or program director.

**Attributes:** DFAH

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

**Finance (FIN)**

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**FIN 305 - Personal Finance - 3**

Holistic planning in the modern society for financial well-being. Behavioral aspects of consuming vs. saving, and risk-taking. Enabling education, homeownership, retirement, and financial security through sound choices. Risk management for catastrophic losses due to poor health, accidents, bereavement, and natural disasters.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level MS 251 Minimum Grade of C

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**FIN 306 - Real Estate Principles - 3**

This introductory class in real estate is to broadly introduce students to the business world of real estate. To prepare students to make sound decisions concerning real estate use and investment.

**Attributes:** SS

**Prerequisites:** Undergraduate level MS 251 Minimum Grade of C

### **FIN 320 - Fin Mgmt & Decision Making - 3** FMS

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Introduction to financial decisions, tools, and models. Valuation, capital budgeting, and capital structure. Operating decisions and other long and short-term applications.

**Attributes:** DEX

**Prerequisites:** Undergraduate level ACCT 200 Minimum Grade of C AND Undergraduate level MS 251 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **FIN 341 - Topics in Finance - 3**

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Selected topics in finance. May be repeated to a maximum of 6 hours provided that no topic is repeated.

**Prerequisites:** Undergraduate level FIN 320 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **FIN 344 - Financial Markets - 3** S

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Conceptual framework of financial markets and institutions; functions and practices of debt, equity and derivative security markets; Bank and nonbank financial institution operations and regulations.

**Attributes:** SS

**Prerequisites:** Undergraduate level FIN 320 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **FIN 360 - Principles of Insurance - 3**

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Theoretical and applied concepts underlying individual life and health insurance; annuities and property; and assessing risk and calculation of

premiums.

**Prerequisites:** Undergraduate level FIN 320 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **FIN 361 - Retirement Planning - 3**

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Technical aspects of various types of retirement plans will be discussed. The course will cover different types of retirement plans, investment choices, and benefits available to employees.

**Attributes:** SS

**Prerequisites:** Undergraduate level FIN 320 Minimum Grade of C

### **FIN 420 - Problems in Corporate Finance - 3** FMS

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In-depth development of analytical decision models; and 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:** Undergraduate level FIN 320 Minimum Grade of C OR Undergraduate level ACCT 312 Minimum Grade of C

### **FIN 421 - Merger and Capital Structure - 3**

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The focus of this course is on issues related to mergers, capital structure, and distribution. This course is structured for students who wish to expand their knowledge in the area of corporate finance. Topics such as how firms raise capital via security issuances, how mergers are appraised, why firms pay dividends and share repurchases will be discussed in depth.

**Prerequisites:** Undergraduate level FIN 420 Minimum Grade of C

### **FIN 430 - Portfolio Analysis - 3** FS

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Modern portfolio theory and asset pricing models; theory and practice of portfolio performance evaluation; structure of equity markets; trading of



securities; and mutual funds. Satisfies research requirement for business program and EL designation.

**Attributes:** EL

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of C OR Undergraduate level FIN 420 Minimum Grade of C

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### **FIN 431 - Derivative Securities - 3**

F

Introduction to derivatives; options, forwards, futures and swaps; trading of derivatives and the arbitrage relationships; and pricing of derivatives on equities, debt, commodities and foreign exchange.

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of D OR Graduate level FIN 527  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Economics and Finance

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### **FIN 432 - Fixed Income Securities - 3**

Types and characteristics of fixed-income securities. Issuance, trading and valuation. Term structure movement, risk and return. Credit analysis. Fixed-income embedded options and portfolio management.

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of C

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### **FIN 435 - Real Estate Fin & Investment - 3**

Fundamental concepts, and investigation and evaluation of real (estate) assets. Single residence, multiple dwellings, and commercial properties. Applications based on financial theory and methodology.

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **FIN 436 - Fin Ana of Entrepreneurial Ven - 3**

Deals with the use of financial tools and techniques to plan, fund, operate and value entrepreneurial ventures. It focuses on the financial management aspects that deal with the different stages of a business venture's life cycle from its development to maturity stages.

**Attributes:** SS

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of C

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### **FIN 440 - Financial Institutions - 3**

F

Financial management of financial institutions: commercial banks, S&L's, insurance companies, and other financial institutions. Asset and liability management.

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **FIN 445 - Appld Security Anly & Portfolio - 3**

Topics include financial statement analysis; stock valuation; earnings/dividends projections; dividend and asset pricing models; portfolio management; and research report writing. Students manage actual investment fund. Restricted to senior BUEF / Bus Admin / Finance students.

**Prerequisites:** Undergraduate level FIN 430  
Minimum Grade of B

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### **FIN 450 - International Finance - 3**

F

International financial markets. Determinants of foreign exchange rates and risk management in global markets. Managerial implications of foreign exchange exposure and firm valuation. International investment analysis.

**Attributes:** EGC, II, SS

**Prerequisites:** Undergraduate level FIN 320  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the

following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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**FIN 451 - Advanced Finance with Excel - 3**

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Individuals and businesses have to make financial decisions on a regular basis. This course will help students learn how to make those decisions using Excel.

**Attributes:** SS

**Prerequisites:** Undergraduate level FIN 450  
Minimum Grade of C OR Undergraduate level FIN 431 Minimum Grade of C

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**FIN 460 - Corp Fin Analysis & Strategy - 0 or 3** FS

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In-depth analysis of financial data and stock prices. Study the relationship among financial markets, financial strategy, and welfare of corporate stake holders. Will not count toward MA or MS in Economics and Finance.

**Prerequisites:** Undergraduate level FIN 420  
Minimum Grade of D

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**FIN 480 - Cases&Prob i/Corporate Finance - 3**

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Use case analyses to study financial concepts and techniques; topics included: investment decisions, mergers and acquisitions, and long-term and short-term financing. Will not count toward MA or MS in Economics and Finance.

**Prerequisites:** Undergraduate level FIN 420  
Minimum Grade of D

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**FIN 490 - Independent Study in Fin - 1 to 6**

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Investigation of topic areas through individual or small group readings under supervision of faculty member. Requires consent of instructor and department chairperson. May be repeated up to a total of 6 hours. Will not count toward MA or MS in Economics and Finance.

## Foreign Language & Literature (FL)

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**FL 101 - Elementary Foreign Language I - 4**

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Listening, speaking, reading, and writing. Culture of target language country. Lab included.

**Attributes:** FL, HUM, SKFL

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**FL 102 - Elementary Foreign Language II - 4**

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Continuation of 101. Lab included.

**Attributes:** EGC, FL, HUM, IC, SKFL, SKIL

**Prerequisites:** Undergraduate level FL 101  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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**FL 106 - Word Anly:Lat & Greek Roots - 3**

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Analytic reasoning and logic based upon linguistic word-elements and syntax; practical application to vocabulary building. (Skills course).

**Attributes:** BICS, HUM, SKLG

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**FL 111A - Intro to Foreign Studies Fr - 3**

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Overview of language, development of literature, and 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 and toward general education. Course is a general education introductory level course, and satisfies the international culture general education requirement.

**Attributes:** BHUM, EGC, HUM, IC, IFAH

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**FL 111B - Intro Foreign Studies German - 3** FS

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Overview of language, development of literature, and 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 and toward general education. Course is a general education introductory level course and satisfies the international culture General Education requirement.

**Attributes:** BHUM, EGC, HUM, IC, IFAH

**FL 111C - Intro to Foreign Stds Spanish - 3** <sup>F</sup>

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Overview of language, development of literature, and 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 and toward general education. [IAI Course No. H2 903N]

**Attributes:** BHUM, EGC, IC, IFAH

**FL 111D - Intro To Foreign Studies: Chin - 3**

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Overview of language, development of literature, and 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.

**Attributes:** BHUM, EGC, HUM, IC, IFAH

**FL 111E - Int t/Foreign St:t/Fr Spk Wrld - 3**

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Overview of French colonization in Africa, Asia, North America, and the Caribbean; the decolonization experience; and cultural and ethnic diversity in France today.

**Attributes:** BHUM, EGC, HUM, IC, IFAH

**FL 111F - Latin American Culture - 3**

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Study of the representation of childhood in Latin American film and the ways in which young characters are victims/witnesses/social actors in Latin America.

**Attributes:** BHUM, EGC, II

**FL 121 - Learning Another Language - 3**

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Systematic methods for learning foreign language presented through lectures and practical exercises.

**Attributes:** BICS, DFAH, HUM

**FL 201 - Intrmediate Foreign Language I - 4**

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Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary

readings, compositions. Lab included.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level FL 102  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

**FL 202 - Intermediate Foreign Lang II - 4**

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Continuation of 201, 1. Lab included.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level FL 201  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

**FL 220 - Brazilian History through Film - 3**

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This course surveys the history of Brazil from colonial times to the present as represented in Brazilian films released after the 1980s.

**Attributes:** BHUM, DFAH, EGC, IC

**FL 230 - Foundations of Celtic Culture - 3**

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Overview of ancient Celtic culture from its beginnings to its decline (1000BCE - 50CE).

**Attributes:** DFAH, EGC, HUM, IC

**FL 330 - Cltc Cul:Mythology & Religion - 3**

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Ancient Celtic divinities and mythology; druidism; and Christianity. [Dist. FAH, IC]

**Attributes:** BHUM, DFAH, EGC, HUM, IC

**FL 345 - Literature in Translation - 3**

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Works of major authors. May count for major or minor credit in FL with permission of the department and term paper in target language.

**Attributes:** DFAH, EGC, HUM, IC

**FL 350 - Celtic Heroic Literature - 3**

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Survey of Irish and Welsh literature of the Celtic heroic age, with emphasis on the Tain and the Mabinogion.

**Attributes:** BHUM, DFAH, EGC, HUM, IC

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**FL 390 - Readings - 3**

Selected works of representative authors in student's field of interest. Offered in French, German, Italian, Russian, Spanish, Latin, and Greek. Primarily for students with no foreign language concentration, but may be taken for credit in Foreign Language concentration with consent of instructor. Requires consent of instructor.

**Attributes:** DFAH, HUM

**Prerequisites:** (Undergraduate level GER 202 Minimum Grade of D OR Undergraduate level ITAL 202 Minimum Grade of D OR Undergraduate level SPAN 202 Minimum Grade of D OR Undergraduate level FR 202 Minimum Grade of D OR Undergraduate level RUSS 202 Minimum Grade of D)

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**FL 401 - Comp Latin & 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. Requires consent of instructor.

**Attributes:** DFAH, HUM

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**FL 486 - Methods for Teaching FL K-12 - 3** <sup>F</sup>

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.

**Attributes:** DFAH, HUM

**Prerequisites:** (Undergraduate level FR 301 Minimum Grade of D OR Undergraduate level GER 301 Minimum Grade of D OR Undergraduate level SPAN 301 Minimum Grade of D)

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**FL 491 - Cultur&Lang Wksh: It,Ch,Ru,Etc - 3 to 6**

Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures; and travel-study abroad.

Supervised projects in foreign studies. May be repeated to a maximum of 6 hours provided no topic is repeated.

**Attributes:** DFAH, EGC, HUM, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

**French (FR)**

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**FR 101 - Elementary French I - 4** <sup>F</sup>

Listening, speaking, reading and writing. Culture of French-speaking countries. Lab included. Course is a general education skills course.

**Attributes:** BICS, FL, HUM, SKFL

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**FR 102 - Elementary French II - 4** <sup>S</sup>

Continuation of French 101. Lab included. Course is a general education skills course and satisfies the International Culture requirement for general education. Prerequisite: 101 or placement testing.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL

**Prerequisites:** Undergraduate level FR 101 Minimum Grade of D

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**FR 104 - Elementary French - 8**

Intensive instruction in listening, speaking, reading, and writing. Culture of French-speaking countries. Lab included. Must enroll for all 8 hours credit. Check with department chairperson to determine if course will be offered.

**Attributes:** EGC, FL, HUM, IC, SKFL

---

**FR 201 - Intermediate French I - 4** <sup>F</sup>

Continued practice in listening, speaking, reading, and writing. Grammar review; cultural and literary readings; and compositions. Lab included. Prerequisite: 102 or 104 or placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level FR 102 Minimum Grade of D OR Undergraduate level FR 104 Minimum Grade of D

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**FR 202 - Intermediate French II - 4** <sup>S</sup>

Continuation of 201. Lab included. [IAI Course No. H1 900] Prerequisite: 201 or placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level FR 201  
Minimum Grade of D

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### FR 301 - Advanced French - 4

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In-depth grammar review. Composition and conversation. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

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### FR 302 - Advanced French - 4

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Selected topics in grammar, readings, and composition. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

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### FR 304 - Interpretation - 3

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Oral translation of selected passages, alternating between English and French. Development of precision and clarity in both languages.

**Attributes:** BICS, DFAH, HUM  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

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### FR 305 - Translation - 3

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Written translation of selected passages, alternating between English and French. Development of precision and clarity in both languages.

**Attributes:** BICS, DFAH, HUM  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

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### FR 308 - French Phonetics - 3

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Articulatory exercises to acquire correct pronunciation. Difficulties encountered by speakers of American English.

**Attributes:** DFAH, HUM  
**Prerequisites:** Undergraduate level FR 202

Minimum Grade of D

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### FR 311 - Contemporary France - 3

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Significant aspects of French culture. Course satisfies the advanced level general education requirement in Fine Arts and Humanities, and satisfies the International Culture general education requirement.

**Attributes:** BHUM, DFAH, EGC  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

### FR 312 - Quebecois Culture & 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.

**Attributes:** BHUM, DFAH, EGC, IC  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

### FR 320 - Advanced French Conversation - 3

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Practice in advanced-level conversation. Focus on pronunciation and fluency. Prerequisite: FR 202, placement testing or instructor permission.

**Attributes:** BICS, DFAH, EGC, HUM, IC  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

### FR 351 - Survey Fr Lit: Mid Ages Class - 3

---

Representative prose, poetry, and drama: 11th through 17th centuries.

**Attributes:** BHUM, DFAH, EGC, IC  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

### FR 352 - Survey Fr Lit: Enlight to Pres - 3

---

Representative prose, poetry, and drama: 18th through 20th centuries.

**Attributes:** BHUM, DFAH, EGC, IC  
**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

**FR 353 - Survey of French Novel - 3**

---

Selected readings; literary and cultural background.

**Attributes:** BHUM, DFAH, EGC

**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

**FR 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.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level FR 201  
Minimum Grade of C AND Undergraduate level FR 202  
Minimum Grade of C

---

**FR 400A - Senior Essay in French - 2**

---

F

Supervised research of an extensive scholarly paper in French. Not for graduate credit. Requires foreign language advisor approval.

**Attributes:** HUM

**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

**FR 400B - Senior Essay in French - 2**

---

S

Supervised preparation of an extensive scholarly paper in French. Not for graduate credit. Requires foreign language advisor approval.

**Attributes:** HUM

**Prerequisites:** Undergraduate level FR 202  
Minimum Grade of D

---

**FR 402 - Business French - 3**

---

Oral and written business expression; specialized terminology and idioms. Not for graduate credit.

**Attributes:** BICS, DFAH, EGC, HUM

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 451 - Studies Frch Lit Mid Ages Ren - 3**

---

Literary analysis of prose, poetry, and drama: 11th through 16th centuries. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 452 - Studies Frch Lit: Clsism-Enlgt - 3**

---

Literary analysis of prose, poetry, drama: 17th and 18th centuries. Not for graduate credit.

**Attributes:** DFAH, EGC, HUM, IC

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 453 - Stdy French Lit: Roman-Present - 3**

---

Literary analysis of prose, poetry, and drama: 19th and 20th centuries. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 454 - Selected Topics in Literature - 3**

---

Selected topics in literature or literary criticism. May be repeated to a maximum of 6 hours provided that no topic is repeated.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 455 - French Drama - 3**

---

Major and typical works.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 456 - Seminar on Women Writers - 3**

---

Fiction, nonfiction, drama, and poetry. Taught in English. For credit in FL; term paper written in French. Same as WMST 456.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

**FR 457 - Africn & Caribn Lit Frch Exp - 3**

---

Literature of various French-speaking nations. Taught in English. For credit in FL; term paper written in French.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level FR 301  
Minimum Grade of D

---

### FR 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.

**Attributes:** DFAH, HUM

---

### FR 491 - Cultural & Lang Wkshp - French - 3 to 6

---

Comparative or contrastive linguistics; advanced methodology; and techniques. In-depth study of foreign cultures, and travel-study abroad.  
Supervised projects in French. May be repeated to a maximum of 6 hours provided that no topic is repeated.

**Attributes:** DFAH, EGC, HUM, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

---

### FR 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.

**Attributes:** DFAH, HUM

**Restrictions:** Must be enrolled in one of the following  
Classifications: Senior with Degree, Senior

## General Business Admin (GBA)

---

### GBA 301 - Bus Trans I: Plan for Success - 1 <sup>FS</sup>

---

School of Business orientation; development of professional skills; introduction to and practice of business knowledge, interpersonal skills and integration of knowledge and skills.

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Levels: Undergraduate

---

### GBA 398 - Business Internship - 0

---

FMS

Practical work activity with an outside organization providing students with the opportunity to apply conceptual knowledge in the workplace. Enrollment is through the Career Development Center. Students will receive a grade of pass/no credit.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman

---

### GBA 399 - Business Cooperative Education - 0

---

FMS

Supervised work experience with an organization utilizing business skills. Formal enrollment in approved co-op course through Career Development Center. Students receive grade of pass/no credit.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

---

### GBA 402 - Bus TransII:Commit Beyond Coll - 1 <sup>FS</sup>

---

Transition to professional business environment including job search, graduate school, and networking. Reinforcement, reflection, and integration of business knowledge and interpersonal skills.

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Levels: Undergraduate

---

### GBA 489 - Study Abroad - 1 to 15

---

S

Participation in school's 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 undergrads & 15 hours for grads. Requires appropriate language competency, and approval by director of exchange programs.

## Geography (GEOG)

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### GEOG 111 - Intro to Geography - 3

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FMS

Examines physical and human geographic principles in order to understand the spatial distribution of both physical attributes and human activities and their interrelationships. [IAI No. S4 900N]

**Attributes:** BSS, EGC, EL, IC, ISS

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**GEOG 201 - World Regions - 3** FS

---

Survey of major world areas in terms of population, settlement, and related human occupancy patterns.

**Attributes:** BSS, DSS, EGC, IC

---

**GEOG 202 - Natural Resource Mgmt & Sustain - 3** FMS

---

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.

**Attributes:** BLS, DNSM

---

**GEOG 205 - Human Geography - 3** FS

---

Geographic principles underlying the location and distribution of people and their activities in relation to the environment. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, EL, II

---

**GEOG 210 - Physical Geography - 3** FMS

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Distribution and interrelation of Earth's physical elements. Selected topics include geodesy, climatology/meteorology, and landforms. [Dist. NSM] [IAI Course No. P1 909]

**Attributes:** BPS, DNSM, EL

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**GEOG 211 - Meteorology - 3** FMS

---

Introduction to weather controls and elements; and their relationship to human activities; analysis and use of weather maps and forecasts.

**Attributes:** BPS, DNSM, EL

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**GEOG 270 - Physical Geography Lab - 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 hours. Prerequisite: GEOG 210 or GEOG 211 with minimum grade of D or concurrent enrollment.

**Attributes:** BPS, DNSM, EL, LNSM

**Prerequisites:** (Undergraduate level GEOG 210 Minimum Grade of D (concurrency allowed) OR Undergraduate level GEOG 211 Minimum Grade of D (concurrency allowed))

---

**GEOG 300 - Population Geography - 3**

---

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.

**Attributes:** BSS, DSS, EGC, EH, EL, II

**Prerequisites:** Undergraduate level GEOG 205 Minimum Grade of C

---

**GEOG 301 - Economic Geography - 3**

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Spatial patterns and distribution of economic activities, interaction processes, and location theory.

**Attributes:** DSS, EGC, II, SS

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**GEOG 303 - Intro to Urban Geography - 3** F

---

Survey of human and environmental factors related to the distribution, interrelations, and internal spatial organization of cities.

**Attributes:** BSS, DSS

---

**GEOG 310 - Physical Geology - 3**

---

Composition and structure of the Earth. Physical and chemical processes responsible for modifying the Earth and its surface. Laboratory.

**Attributes:** DNSM, EL, LNSM, PS

**Prerequisites:** Undergraduate level ESCI 111 Minimum Grade of D

---

**GEOG 314 - Climatology - 3**

---

Survey of climatic controls and elements; classification systems; and distribution of resultant



climatic regions. Relationships between climatic elements and landforms.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level GEOG 211  
Minimum Grade of D

---

### **GEOG 315 - Geomorphology - 3**

---

Processes and structures influencing the shape of the Earth's surface. Requires consent of instructor.

**Attributes:** DNSM, PS

---

### **GEOG 316 - Introduction to Biogeography - 3**

---

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.

**Attributes:** DNSM, LS

**Prerequisites:** (Undergraduate level GEOG 202  
Minimum Grade of D OR Undergraduate level GEOG 210  
Minimum Grade of D)

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### **GEOG 320 - Cartography - 3**

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FMS

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.

**Attributes:** DNSM

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### **GEOG 321 - Quantitative Techniques - 3**

---

FS

Quantitative techniques used in solving geographic problems. The emphasis is on descriptive, inferential, and bivariate statistics.

**Attributes:** BICS, DNSM, EL

**Prerequisites:** Undergraduate level MATH 120  
Minimum Grade of D OR Undergraduate level MATH 120E  
Minimum Grade of D

---

### **GEOG 322 - Air Photo Interpretation - 3**

---

Methods and techniques used in interpreting aerial photographs for research in physical and social sciences. Requires completion of GEOG 320 or consent of instructor.

**Prerequisites:** Undergraduate level GEOG 320  
Minimum Grade of D

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### **GEOG 330 - Geography of Europe - 3**

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Physical settings and geographic patterns of human activities with area descriptions of European countries and particular regions stressing human and environmental relationships.

**Attributes:** DSS, EGC, IC, SS

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### **GEOG 331 - Geog Commonwealth Ind States - 3**

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Physical settings and geographic patterns of human activities with area descriptions of particular Soviet regions stressing human and environmental relationships.

**Attributes:** DSS, EGC, IC, SS

---

### **GEOG 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.

**Attributes:** DSS, EGC, IC, SS

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### **GEOG 333 - Geography of Asia - 3**

---

M

Physical settings and geographic patterns of human activities with area descriptions of Asian countries and particular regions stressing human and environmental relationships.

**Attributes:** DSS, EGC, IC, SS

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### **GEOG 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.

**Attributes:** DSS, EGC, IC, SS

---

### **GEOG 335 - Geography of North America - 3**

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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.

**Attributes:** DSS, SS

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### **GEOG 401 - Geography of Development - 3**

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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. Requires consent of instructor.

**Attributes:** DSS, EGC, II, SS

---

### **GEOG 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. Requires consent of instructor.

**Attributes:** BHUM, DSS

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### **GEOG 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. Prerequisite: GEOG 303 with minimum grade of C or better, or consent of instructor, or concurrent enrollment.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level GEOG 303  
Minimum Grade of C (concurrency allowed)

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### **GEOG 404 - Medical Geography - 3**

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This course examines medical geographic principles to understand the diversity of health around the world and the processes connecting them.

**Prerequisites:** Undergraduate level GEOG 205  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **GEOG 405 - Geography of Food - 3**

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Examination of food production and distribution. The relationship between food and culture from

geographic perspective.

**Attributes:** EH, HUM

**Prerequisites:** Undergraduate level GEOG 205  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

---

### **GEOG 406 - Political Geography - 3**

---

Fundamental principles of geopolitics, geostrategic theory, electoral geography, and their application to the United States and other major world regions. Can be taken for graduate credit. Requires junior and senior standing.

**Attributes:** DSS, EGC, II, SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

---

### **GEOG 407 - Spatial Thinking & Behavior - 3**

---

This course examines how people understand, think about, and behave in space.

**Attributes:** BICS

**Prerequisites:** Undergraduate level GEOG 205  
Minimum Grade of C

---

### **GEOG 408 - Snow and Ice Processes - 3**

---

This course: focuses on the properties processes, and distribution of seasonal and perennial snow; provides an overview of glaciers; and studies snow and ice climatology.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level GEOG 314  
Minimum Grade of D

---

### **GEOG 410 - Soils - 3**

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Formation processes, classification, distribution, use, and problems associated with Earth surface materials. Field trip.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level ESCI 111  
Minimum Grade of D

---

### **GEOG 411 - Hydrology - 3**

---

F

Hydrologic cycle, major stream systems, and uses of water resources and their relationships to quality and future supplies. Same as ENSC 411.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 120  
Minimum Grade of D OR Undergraduate level MATH 120E Minimum Grade of D

---

### **GEOG 412 - Groundwater Hydrology - 3**

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Study of groundwater: occurrence; physical and chemical properties; flow and flow system modeling relation to rock structure and lithology; and contamination of groundwater resources.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 113  
Minimum Grade of D AND (Undergraduate level MATH 120 Minimum Grade of D OR Undergraduate level MATH 120 Minimum Grade of D)

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### **GEOG 413 - Environmental Geochemistry - 3**

---

Study of exogenic environment as a geochemical system; natural circulation of water, sediment, carbon, sulfur, nitrogen, and phosphorus; and assessment of human activities on these cycles. C/I with ENVS 426.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level CHEM 113  
Minimum Grade of D

---

### **GEOG 414 - Floods, Climate & the Envirnmnt - 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.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level GEOG 411  
Minimum Grade of D

---

### **GEOG 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.

**Attributes:** LS

**Prerequisites:** Undergraduate level GEOG 316  
Minimum Grade of D

---

### **GEOG 416 - Conservation Biogeography - 3**

---

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. Same as ENSC 445.

**Attributes:** LS

**Prerequisites:** Undergraduate level GEOG 316  
Minimum Grade of D

---

### **GEOG 417 - River Landscapes - 3**

---

Combines scientific understanding of river and watershed processes with ecological concepts to address rivers as comprehensive systems.

**Attributes:** BPS, DNSM

**Prerequisites:** GEOG 210 or permission of Instructor or graduate admission to Geography.

---

### **GEOG 418 - Geographic Information Systems - 3**

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FS

Concepts, basic theory, and principles of GIS using both Raster and Vector data models in a PC environment. Requires consent of instructor.

**Attributes:** DNSM

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### **GEOG 419 - Thematic Cartography - 3**

---

This course offers an in-depth analysis of cartographic techniques, theories, and their application to the design of maps.

**Attributes:** DNSM

**Prerequisites:** Undergraduate level GEOG 320  
Minimum Grade of D

---

### **GEOG 420 - Interactive & Animated Cartogr - 3**

---

Investigate and develop alternatives such as interactive maps and map animation to traditional map representations such as static paper maps.

**Prerequisites:** Undergraduate level GEOG 320

Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

---

### **GEOG 421 - Digital Elevation Modeling - 3**

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Processing of digital elevation models and the generation of 3D renderings with digital orthophotos, satellite imagery, digital raster graphics, and/or other 3D features.

**Prerequisites:** Undergraduate level GEOG 418  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

---

### **GEOG 422 - Remote Sensing & Digital Image - 3**

---

Concepts of remote sensing including air-photo interpretation, digital image preprocessing, and classification of satellite based imagery.

**Attributes:** DNSM

**Prerequisites:** Undergraduate level GEOG 321  
Minimum Grade of D

---

### **GEOG 423 - Computer Mapping - 3**

---

Cartographic design techniques related to computer aided conversion, analysis, and presentation of data. Includes use of arc view, symbol perception, and map design. Requires consent of instructor.

**Attributes:** DNSM

---

### **GEOG 424 - Vector Based Geog Info Systems - 3**

---

Examination of vector topology, digital map transformation, manipulation, analysis, and composition.

**Attributes:** DNSM

**Prerequisites:** Undergraduate level GEOG 418  
Minimum Grade of D

---

### **GEOG 425 - Raster Based Geog Info Systems - 3**

---

In-depth study of cell-based (Raster) GIS concepts. Includes the development of cell based GIS models for addressing environmentally related issues.

**Attributes:** DNSM

**Prerequisites:** (Undergraduate level MATH 120  
Minimum Grade of D OR Undergraduate level MATH 120E Minimum Grade of D OR Undergraduate level MATH 125 Minimum Grade of D) AND  
Undergraduate level GEOG 418 Minimum Grade of D

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### **GEOG 426 - Field Study - 1 to 6**

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Field investigation of physical and cultural features of the environment. [Dist. NSM] may be repeated to a max of 6 hours. Requires advanced standing or consent of instructor.

**Attributes:** DNSM

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **GEOG 427 - Internship - 1 to 6**

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FMS

Work experiences in public or private agencies. May be repeated to a maximum of 6 hours.

**Restrictions:** Must be enrolled in one of the following Majors: Geography, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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### **GEOG 428 - Travel Study - 1 to 6**

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Enrichment through travel, supervised study, and readings on areas visited. May be repeated to a maximum of 6 hours.

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### **GEOG 429 - Strm Chas& Assess Fld Crse - 3**

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Exposes students to the unique environments and hazards associated with local thunderstorms. Students will benefit from lecture and participation in event assessment. Requires consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level GEOG 314  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Geography

---

### **GEOG 430 - Global Climate Change - 3**

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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.

**Attributes:** BPS, DNSM, II

**Prerequisites:** Undergraduate level GEOG 211  
Minimum Grade of C AND Undergraduate level  
GEOG 314 Minimum Grade of C

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### **GEOG 431 - Web-based Online Mapping - 3**

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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.

**Attributes:** BICS

**Prerequisites:** Undergraduate level GEOG 320  
Minimum Grade of C

---

### **GEOG 432 - Python Scripting in GIS - 3**

---

Use of Python as a tool to automate geoprocessing tasks in the creation of maps, tools and add-ins in ArcGIS.

**Prerequisites:** Undergraduate level GEOG 418  
Minimum Grade of C OR Graduate level GEOG 418  
Minimum Grade of C

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### **GEOG 440 - Teaching Geography - 3**

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Methods and techniques of teaching geography in primary and secondary classroom situations. Emphasis on teaching devices, illustrative materials, and literature. Requires junior standing.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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### **GEOG 450 - Topics in Geography - 3**

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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.

**Restrictions:** Must be enrolled in one of the  
following Majors: Geography, May not be enrolled as  
the following Classifications: Freshman, 1st  
Semester, Freshman, Junior, Sophomore

---

### **GEOG 451 - Topics in Human Geography - 3**

---

Specific topics in human geography based on faculty expertise. May be repeated to a maximum of 6 hours.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Junior, Sophomore, Must be enrolled in one of the  
following Departments: Geography

---

### **GEOG 452 - Topics in Physical Geography - 3**

---

Specific topics in physical geography based on faculty expertise. May be repeated to a maximum of 6 hours.

**Attributes:** PS

**Restrictions:** Must be enrolled in one of the  
following Majors: Geography, May not be enrolled as  
the following Classifications: Freshman, 1st  
Semester, Freshman, Junior, Sophomore

---

### **GEOG 453 - Topics in Regional Geography - 3**

---

Specific topics in regional geography based on faculty expertise. May be repeated to a maximum of 6 hours.

**Attributes:** SS

**Restrictions:** Must be enrolled in one of the  
following Majors: Geography, May not be enrolled as  
the following Classifications: Freshman, 1st  
Semester, Freshman, Junior, Sophomore

---

### **GEOG 454 - Topics in Geographic Techniques - 3**

---

Specific topics in geographic techniques based on faculty expertise. May be repeated to a maximum of 6 hours.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Junior, Sophomore, Must be enrolled in one of the  
following Departments: Geography

---

### **GEOG 470 - Adv Physical Geog Laboratory - 2 to 4**

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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. Graduate credit requirements include additional course work design and conduct a field survey, then analyze and report on the data collection. Requires consent of instructor.

**Attributes:** PS

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**GEOG 490 - Tutorial in Geography - 1 to 3** s

Individual and small group conferences with faculty to examine geographic topics. May be repeated to a maximum of 6 hours. Requires consent of adviser and instructor.

---

**GEOG 499 - Senior Assignment - 3** FS

Research paper of an approved topic in geography; required for graduation. Not for graduate credit.

**Prerequisites:** Undergraduate level GEOG 321  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## German (GER)

---

**GER 101 - Elementary German I - 4** F

Listening, speaking, reading and writing. Culture of German-speaking countries. Lab included.

**Attributes:** BICS, FL, HUM, SKFL

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**GER 102 - Elementary German II - 4** s

Continuation of GER101. Lab included. Prerequisite: 101 or placement testing.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL  
**Prerequisites:** Undergraduate level GER 101  
Minimum Grade of D

---

**GER 104 - Elementary German - 8**

Intensive instruction in listening, speaking, reading and writing. Culture of German-speaking countries. Lab included. Equivalent to 101 and 102 combined.

Must enroll in all 8 hours credit. Check with department chairperson to determine when course will be offered.

**Attributes:** EGC, FL, HUM, IC, SKFL

---

**GER 201 - Intermediate German I - 4** F

Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisites: 102 or 104 or placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level GER 102  
Minimum Grade of D OR Undergraduate level GER 104  
Minimum Grade of D

---

**GER 202 - Intermediate German II - 4** S

Continuation of GER201. Lab included. [IAI Course No. H1 900] Prerequisite: 201 or placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level GER 201  
Minimum Grade of D

---

**GER 301 - Advanced German - 4** F

In-depth grammar review. Composition and conversation. Lab included. Prerequisite: 202 or placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

---

**GER 302 - Advanced German - 4**

Selected topics in grammar, readings, and composition. Lab included.

**Attributes:** DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level GER 301  
Minimum Grade of D

---

**GER 303 - German Language Structure - 3**

Technical aspects of German language.

**Attributes:** BICS, DFAH, HUM  
**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 304 - German in Commerce and Govern - 3**

---

Selections from publications related to German commerce and government.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 305 - Technical German - 3**

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Contrastive analysis. Reading skills in scientific and other technical fields.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 311 - German Culture - 3**

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Significant aspects of German culture and their development and manifestation in contemporary Germany.

**Attributes:** DFAH, EGC, HUM, IC

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 320 - Advanced German Conversation - 3**

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Practice in advanced-level conversation. Focus on pronunciation and fluency.

**Attributes:** BICS, DFAH, EGC, HUM, IC

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 351 - Surv o/ Ger Lit: Mid Ages Romntcm - 3**

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Selected readings. Literary and cultural background.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 352 - Surv o/ Ger Lit: Real to Pres - 3**

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Selected readings. Literary and cultural background.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level GER 202

Minimum Grade of D

### **GER 353A - Survey of German Poetry - 3**

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Survey of a German genre: Poetry. Selected readings: literary and cultural background.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 353B - Sur of A German Genre: Novelle - 3**

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Survey of a German genre: Novelle. Selected readings: literary and cultural background.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 353C - Surv of A German Genre: Drama - 3**

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Survey of a German genre: Drama. Selected readings: literary and cultural background.

**Attributes:** BHUM, DFAH, EGC

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 400A - Senior Essay in German - 2**

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Supervised research of an extensive scholarly paper in German. Requires foreign language advisor approval required.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 400B - Senior Essay in German - 2**

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Supervised preparation of an extensive scholarly paper in German. Requires foreign language advisor approval required.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

### **GER 401 - Develop of German Structure - 3**

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Historical development of German language. How

modern German structure came into being in standard and main dialects. Not for graduate credit.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level GER 202  
Minimum Grade of D

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### **GER 402 - Business German - 3**

Everyday business practices in Germany. Specialized vocabulary, correspondence, and cultural background. Not for graduate credit.

**Attributes:** BICS, DFAH, EGC, HUM

**Prerequisites:** Undergraduate level GER 301  
Minimum Grade of D

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### **GER 411 - German Civilization - 3**

German-speaking areas of the world. Anthropological and social aspects of various cultures.

**Attributes:** DFAH, EGC, HUM, IC

**Restrictions:** Must be enrolled in one of the following Majors: Foreign Languages and Literature, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **GER 452 - Faust - 3**

Goethe's masterpiece, its background, meaning, and impact on world literature. Life and times of Goethe.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level GER 301  
Minimum Grade of D

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### **GER 453 - Seminar in German Lit - 3**

Selected German literary masterpieces organized by theme, historical period, literary movement, or other criteria. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level GER 301  
Minimum Grade of D

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### **GER 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.

**Attributes:** BHUM, DFAH

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### **GER 491 - Cultural & Language Wk German - 3 to 6**

Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, and travel-study abroad. Supervised projects in German studies. May be repeated to a maximum of 6 hours provided that no topic is repeated.

**Attributes:** DFAH, EGC, HUM, IC

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **GER 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. Requires consent of instructor.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## **Greek (GRK)**

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### **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.

**Attributes:** FL, HUM, SKFL

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### **GRK 102 - Introduction to Greek - 4**

Continuation of GRK 101.

**Attributes:** EGC, FL, HUM, IC, SKFL

**Prerequisites:** Undergraduate level GRK 101  
Minimum Grade of D

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### **GRK 201 - Intermediate Greek - 4**



Development of reading facility. Reading of selected masterpieces in history, poetry, and philosophy.

**Attributes:** DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level GRK 102  
Minimum Grade of D

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#### **GRK 202 - Intermediate Greek - 4**

Continuation of GRK 201. [IAI Course No. H1 900]

**Attributes:** DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level GRK 102  
Minimum Grade of D

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#### **GRK 499A - Read:Dev of Lexic& Strc Comp - 4**

Development of lexical and structural competence. GRK499A, 499B, and 499C must be taken in sequence and are prerequisites to GRK499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

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#### **GRK 499B - Readings: Continuation of A - 4**

Continuation of GRK 499A. Must be taken in sequence and are prerequisites to GRK 499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GRK 499A  
Minimum Grade of D

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#### **GRK 499C - Read:Sel Masterpiec of Lit - 4**

Selected masterpieces of literature. GRK 499A, 499B, and 499C must be taken in sequence and are prerequisites to GRK 499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

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#### **GRK 499D - Readings: History - 4**

History. GRK 499A, 499B, and 499C must be taken in sequence and are prerequisites to GRK 499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GRK 499A  
Minimum Grade of D AND Undergraduate level GRK 499B Minimum Grade of D AND Undergraduate level GRK 499C Minimum Grade of D

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#### **GRK 499E - Readings: Poetry - 4**

Poetry. GRK 499A, 499B, and 499C must be taken in sequence and are prerequisites to GRK 499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GRK 499A  
Minimum Grade of D AND Undergraduate level GRK 499B Minimum Grade of D AND Undergraduate level GRK 499C Minimum Grade of D

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#### **GRK 499F - Readings: Philosophy - 4**

Philosophy. GRK 499A, 499B, and 499C must be taken in sequence and are prerequisites to GRK 499D, 499E, or 499F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level GRK 499A  
Minimum Grade of D AND Undergraduate level GRK 499B Minimum Grade of D AND Undergraduate level GRK 499C Minimum Grade of D

### **Health Education (HED)**

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#### **HED 350 - Hlth Ed in the Elementary Sch - 3**

Teacher's role in all phases of school health program. Appraisal and screening; referral; safety; health planning; curriculum integration; and teaching strategies.

**Prerequisites:** (Undergraduate level HED 111  
Minimum Grade of D OR Undergraduate level HED 201 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Majors: Health Education, Health Education, Public Health

## Historical Studies (HIST)

### **HIST 101 - Introductory Topics in History - 3**

Introductory topics such as: history of a specific geographic area, study of a single biographical figure, or thematic approaches to studying the past.

**Attributes:** BSS, DSS

### **HIST 111A - Hist Westn Civ I:Prehist 500AD - 3** FS

111a, b, c-3 each History of Western Civilization [ISS or DSS, IC; BSS, EL, EGC; a I (IAI No. S2902) b II (IAI No. S2902 or S2903) c III (IAI No. S2902 or S2903). (a) the western world from prehistory to the late Antique 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).

**Attributes:** BSS, DSS, EGC, EL, IC, ISS

### **HIST 111B - Hist of Westrn Civ II:500-1715 - 3** S

111a, b, c-3 each History of Western Civilization [ISS or DSS, IC; BSS, EL, EGC; a I (IAI No. S2902) b II (IAI No. S2902 or S2903) c III (IAI No. S2902 or S2903). (a) the western world from prehistory to the late Antique 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).

**Attributes:** BSS, DSS, EGC, EL, II, ISS

### **HIST 111C - Hist Westrn Civ III:1715-Prsnt - 3** FS

111a, b, c-3 each History of Western Civilization [ISS or DSS, IC; BSS, EL, EGC; a I (IAI No. S2902) b II (IAI No. S2902 or S2903) c III (IAI No. S2902 or S2903). (a) the western world from prehistory to the late Antique 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).

**Attributes:** BSS, DSS, EGC, EL, ISS

### **HIST 112A - World History to 1500 - 3** FS

Topics in world civilization before 1500. [IAI Course No. S2 912N]

**Attributes:** BHUM, DSS, EGC, IC

### **HIST 112B - World Hist, 1500 to Pres - 3** FMS

Topics in world civilization 1500 to the present. [IAI Course No. S2 913N]

**Attributes:** BHUM, DSS, EGC, II

### **HIST 130 - History of Black America - 3**

This course examines the experiences of African Americans in the United States. It will also emphasize techniques used by historians to interpret historical change.

**Attributes:** BSS, DSS, EL, EUSC, IGR

### **HIST 130A - Hist of Black America: to 1865 - 3**

Examines the diverse historical experiences of African Americans, from their origins in Africa to the end of the Civil War.

**Attributes:** BSS, DSS, EL, EUSC, IGR

### **HIST 130B - Hist of Blck Amer: 1865 - prsn - 3**

Examines the diverse historical experiences of African Americans beginning with the period following the Civil War and continuing until the present time.

**Attributes:** BSS, DSS, EL, EUSC, IGR

### **HIST 200 - US History & Const: to 1877 - 3** FMS

Political, social, economic and constitutional development. [Dist. SS] [IAI Course No. S2 900] Previous course HIST 201.

**Attributes:** BSS, DSS, EL, EUSC

### **HIST 201 - U.S. Hist&Const:1877 - Present - 3** FS

Political, social, economic and constitutional development. [Dist. SS] [IAI Course No. S2 901] Course replaces HIST 202.

**Attributes:** BSS, DSS, EL, EUSC

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### **HIST 300 - Special Topics - 3**

MS

Single historical topic from areas of political, economic and social history. May be repeated to a maximum of 6 hours provided no topic is repeated. [Dist. SS]

**Attributes:** DSS, SS

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### **HIST 301 - Historical Methods - 3**

FS

Introduction to historiography, philosophy of history, and historical methodology. Restricted to History majors only. Requires Junior standing. Required of all undergraduate students with a major in History.

**Attributes:** SS

**Prerequisites:** Complete 2 courses from HIST 300-499.

**Restrictions:** Must be enrolled in one of the following Majors: History, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **HIST 302 - Ancient Egypt - 3**

Civilization of ancient Egypt from prehistoric through Greco-Roman period. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 304 - History of Greece - 3**

From origins of ancient Greece to 30 B.C. Course replaces HIST 338A and 338B. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 305A - Comp As Cvlzn, Antiq- 16th C - 3**

An historical and comparative exploration of major Asian civilizations, including China, India, and Japan. This course will focus on the evolution of critical religious, philosophical, economic, and political institutions. Prerequisites: ENG 101 and 102. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

**Prerequisites:** Undergraduate level ENG 101 Minimum Grade of D AND Undergraduate level ENG 102 Minimum Grade of D

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### **HIST 305B - Comp Asian Civlzn,1600-Pres - 3**

An historical and comparative exploration of major Asian civilizations, including China, India and Japan. This course will focus on the evolution of critical religious, philosophical, economic, and political institutions. Prerequisites: ENG 101 and 102. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

**Prerequisites:** Undergraduate level ENG 101 Minimum Grade of D AND Undergraduate level ENG 102 Minimum Grade of D

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### **HIST 306A - Hist of Rome:Originsto 30 B.C. - 3**

Republic from origins to 30 B.C. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 306B - Hist of Rome, 303BC-478 AD - 3**

Principate, 30 B.C. - 476 A.D. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 307 - History of Technology - 3**

Explores history of human interaction with technology and the material world using in-depth case studies, emphasis on culture, politics, and business behind technological change.

**Attributes:** BHUM, DFAH

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### **HIST 308A - Imper&Chrtnty:W Erp 300-1000C - 3**

Rise of Christianity and formation of medieval society and institutions in western Europe from Constantine to decline of Carolingians.[Dist. SS, IC]

**Attributes:** BHUM, DSS, EGC, IC

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### **HIST 308B - Med Conq& Kingd, 1000 - 1500C. - 3**

Diversity of medieval experience in west, from rise of Papacy and crusades to Hundred Years' War. [Dist. SS, IC]

**Attributes:** BHUM, DSS, EGC, IC

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### **HIST 309 - Topics in Appl Hist Methods - 3**

Special topics that emphasize the skills and methods used by historians. Specific content, skills, and methods dependent on topic.

**Attributes:** BSS, DSS

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### **HIST 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.

**Attributes:** BSS, DSS

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### **HIST 313 - Witchcraft, Magic & the Occult - 3**

General theory of magic. History of magic and witchcraft in the western world. [Dist. SS]

**Attributes:** BSS, DSS

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### **HIST 315 - Hist of Religion in Europe - 3**

Religious institutions, ideas and practices in European history from antiquity to the present. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 318A - Hist o/Russ 1800-1914 Late Emp - 3**

1800-1914: late empire.

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 318B - Hist of Russia Since 1914 - 3**

Russia since 1914.

**Attributes:** BSS, DSS, EGC, II

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### **HIST 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.

**Attributes:** BHUM, DSS, EGC

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### **HIST 321 - Reformat Europe, 1500 - 1648 - 3**

History of sixteenth-century Europe; social; political and cultural dimensions of Protestant and Catholic reformations; witch-hunts; scientific revolution; and wars of religion.

**Attributes:** BHUM, DSS, EGC

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### **HIST 322 - History of Italy - 3**

People, movements, and ideas leading to formation of Italian nation, Italy in the world wars and thereafter.

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 323 - Social Science Pedagogy - 3**

Designed only for History, Political Science, and Geography Education majors seeking secondary social science certification.

**Attributes:** SS

**Prerequisites:** Undergraduate level HIST 112A Minimum Grade of C AND Undergraduate level HIST 112B Minimum Grade of C AND (Undergraduate level HIST 200 Minimum Grade of C OR Undergraduate level HIST 201 Minimum Grade of C OR Undergraduate level HIST 130 Minimum Grade of C)

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **HIST 326 - Antebellum Amer Hist,1830-1860 - 3**

Antebellum American History is a survey of the cultural, political, and social history of the United States in the thirty years before the Civil War.

**Attributes:** BHUM, DFAH, EUSC

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### **HIST 330 - History of Illinois - 3**

Political, social, economic and cultural history from earliest times to present.

**Attributes:** BSS, DSS, EUSC

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**HIST 334A - The Westward Movement in American History to 1845 - 3**

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Immigration, settlements, exploitation of American land since European conquest. Influence on national, economic, political, cultural and social policies: to 1845.

**Attributes:** BSS, DSS

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**HIST 334B - Westward Move in American History since 1845 - 3**

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Immigration, settlements, exploitation of American land since European conquest; influence on national, economic, political, cultural and social policies: since 1845.

**Attributes:** BSS, DSS

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**HIST 337 - The Coming of the Civil War - 3**

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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.

**Attributes:** BSS, DSS, EUSC, IGR

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**HIST 338 - The Civil War & Reconstruction - 3**

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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.

**Attributes:** BSS, DSS, EUSC, IGR

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**HIST 340 - Black Freedom Movement, 1955 - 75 - 3**

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Civil rights and black power movements' dismantling of the old structure of American apartheid. Its transformation into advanced racism. [Dist. SS, IGR] Prerequisites: HIST 130 or Junior standing.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level HIST 130 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**HIST 342 - History of Religion in America - 3**

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Religious institutions, ideas, and practices in American History. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 344A - History of American Diplomacy to 1919 - 3**

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Problems and trends in U.S. diplomatic history. Foreign and domestic pressures affecting policy making: to 1919. [Dist. SS] Prerequisite: 200.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level HIST 200 Minimum Grade of D

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**HIST 344B - History of American Diplomacy Since 1919 - 3**

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Problems and trends in U.S. diplomatic history. Foreign and domestic pressures affecting policy making: since 1919. [Dist. SS] Prerequisite: 201 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level HIST 201 Minimum Grade of D

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**HIST 345A - History of American Business, Trade/Civil War - 3**

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Development of capitalism, corporations, stock markets, agriculture, banks, unions, and international trade: to Civil War. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 345B - History of American Business, 1860's to Present - 3**

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Development of capitalism, corporations, stock markets, agriculture, banks, unions, and international trade: 1860s to present. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 350A - Making of Modern America - 3**

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Politics, culture and economics in twentieth-century America. (a) 1900-1945.

**Attributes:** BSS, DSS, EUSC, IGR

**HIST 350B - Modern America, 1945-Present - 3**

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Explores the culture, politics, society, and economy of the United States from 1945 to the present.

**Attributes:** BSS, DSS, EUSC

**HIST 352A - Hist of Afr, Preh to Col Times - 3**

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Africa south of the Sahara, prehistoric to colonial times. [Dist. SS, IC][IAI Course No. S2 906N]

**Attributes:** BSS, DSS, EGC, IC

**HIST 352B - Hist of Afr Sub-Sah Col to Pre - 3**

---

Africa south of the Sahara, colonial times to present. [Dist. SS, II][IAI Course No. S2 907N]

**Attributes:** BSS, DSS, EGC, II

**HIST 354A - Islamic Mid East, 600-1400 CE - 3**

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The people and geography of the Middle East. Beliefs and practices of Muslims; and history of the creation of Islamic civilization between 600 and 1400 CE.

**Attributes:** BSS, DSS, EGC, IC

**HIST 354B - Ottoman Empire, 1400-1918 CE - 3**

---

The Ottoman Empire from its pre-Islamic Turkish origins through its heyday as a European and Middle Eastern Islamic Empire to its demise during World War I.

**Attributes:** BSS, DSS, EGC, II

**HIST 354C - 20th-Century Middle East - 3**

---

Examines the political, social, and cultural history of Middle Easterners from the end of World War I to the present.

**Attributes:** BSS, DSS, EGC, IC, II

**HIST 356A - His o/China Anci Times to 1644 - 3**

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Prehistoric times to present: ancient times to 1644.

**Attributes:** BSS, DSS, EGC, IC

**HIST 356B - Hist of China:1644 - Present - 3**

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Modern China: 1644 to present.

**Attributes:** BSS, DSS, EGC, II

**HIST 358 - History of Japan - 3**

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Ancient times to present. Emphasis on feudal traditions, response to western impact, and modern transformation. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

**HIST 360A - Hist of Lat Am to Mid-19th C - 3**

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Emphasis on history of Mexico, Brazil, Argentina, Chile, Peru, and Colombia. From pre-Columbian civilizations to the mid-19th century. [Dist. SS, IC][IAI Course No. S2 910N]

**Attributes:** BSS, DSS, EGC, IC

**HIST 360B - Hist o/Lat Am Mid19th C-Pr - 3**

---

Emphasis on history of Mexico, Brazil, Argentina, Chile, Peru, and Columbia. From mid-19th century until the present. [Dist. SS, II][IAI Course No. S2 911N]

**Attributes:** BSS, DSS, EGC, II

**HIST 400 - Topics in History - 3**

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Selected topics such as biography of a major figure, recent theme in world history, etc. May be repeated for a maximum of 9 hours provided that no topic is repeated. [Dist. SS]

**Attributes:** DSS, SS

**HIST 401 - Historical Research - 3**

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Senior assignment. Rules of historical research applied to a selected topic. Restricted to History majors only. Required of all undergraduate students with major in History. Not for graduate credit.

**Prerequisites:** Undergraduate level HIST 301  
Minimum Grade of C

FS

**Restrictions:** Must be enrolled in one of the following Majors: History

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**HIST 403 - Ancient Mesopotamia - 3**

History and culture of ancient Mesopotamia and surrounding regions from CA. 10,000 B.C. to CA. 539 B.C.E. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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**HIST 404A - Tpc Med Soc,Rel,Int H:400-1000 - 3**

Historiographical problems in the evaluation of medieval society, culture and ritual: 400 - 1000 C.E. [Dist. SS, IC].

**Attributes:** BSS, DSS, EGC, IC

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**HIST 404B - Med Soc,Rel&Intel H 1000-1500C - 3**

Historiographical problems in the evaluation of medieval society, culture and ritual: 1000 - 1500 CE. [Dist. SS, IC].

**Attributes:** BHUM, DSS, EGC, IC

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**HIST 408A - Hist of England: 1509 - 1714 - 3**

Reformation and revolution: 1509 -1714. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 408B - Hist of Eng: 1714 - 1867 - 3**

Birth and growth of industrial England: 1714 -1867. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 408C - Hist of Eng: 1867 to the Pres - 3**

Birth and growth of the welfare state: 1867 to present. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

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**HIST 410 - Directed Reading - 1 to 3**

Supervised reading for students with sufficient background. Not for graduate credit. Requires consent of instructor.

**Attributes:** DSS, SS

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**HIST 412 - The French Revolution - 3**

Examination of the origins of the revolution, its subsequent outbreak, development, radicalization, and collapse; focusing especially on development, radicalization and collapse. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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**HIST 413 - History of Modern France - 3**

Nineteenth and twentieth century France: ongoing revolutions, politics and culture of third republic; efforts to construct 'Frenchness'; Vichy, imperial adventures and leadership in European integration. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

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**HIST 415 - Modern German History - 3**

German history from 1871 to present including Germany under Bismarck, World War I, the Nazi period, World War II, division, and reunification. [Dist. SS, II] Prerequisite: 111B

**Attributes:** BHUM, DSS, EGC, II

**Prerequisites:** Undergraduate level HIST 111B Minimum Grade of D

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**HIST 416 - WW I and Its Aftermath:1914-21 - 3**

War's origins, course, and results; military action as well as political, social, economic, and cultural effect on home fronts, war and world revolution: 1917-1921. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 418 - World War II - 3**

Survey of causes and multiple aspects of the second world war. Emphasis on military operations. [Dist. SS]

**Attributes:** BSS, DSS

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**HIST 420A - Erp Soc,Cult&Intel H:Renaiss Fr - 3**

Renaissance to French revolution. [Dist. SS, IC]

**Attributes:** BSS, DSS, EGC, IC

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**HIST 420B - Erp Soc,Cul&Intell Hst 1789-Pr - 3**

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French revolution to present. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

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**HIST 422A - Late Mod Erp:Vien Cong t/Gr Wr - 3**

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Vienna Congress to the great war. [Dist. SS, IC]  
Prerequisite: HIST 111A

**Attributes:** BSS, DSS, EGC, IC

**Prerequisites:** Undergraduate level HIST 111A  
Minimum Grade of D

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**HIST 422B - Late Mod Erp:WWI Thru WWII - 3**

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World War I through World War II. [Dist. SS, IC]  
Prerequisite: HIST 111B

**Attributes:** BSS, DSS, EGC, IC

**Prerequisites:** Undergraduate level HIST 111B  
Minimum Grade of D

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**HIST 422C - Late Mod Erp:Europe Since WWII - 3**

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Europe since World War II. [Dist. SS, II]  
Prerequisite: HIST 111B or consent of instructor.

**Attributes:** BHUM, DSS, EGC, II

**Prerequisites:** Undergraduate level HIST 111B  
Minimum Grade of D

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**HIST 423A - Trail of Tears: Nat Am Hist - 3**

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Native American history to 1840. Investigation of disparate cultures in contact using historical and anthropological methods, with emphasis on Native American world views.

**Attributes:** BHUM, DSS, EGC, EUSC, IGR

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**HIST 423B - Indian Wars, Prog & Casinos - 3**

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Native American history 1840 to present. Investigation of disparate cultures in contact using historical and anthropological methods, with emphasis on Native American world views.

**Attributes:** BHUM, DSS, EUSC, IGR

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**HIST 424 - Top in East Erpn Hist - 3**

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Selected topics such as the rise of nationalism, World War I, the Cold War, etc.

**Attributes:** BSS, DSS, EGC, II

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**HIST 425 - History of Am. Ideas 1620-1865 - 3**

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History of American Ideas 1620-1865 traces ideological conflicts and compromises that created the United States through the Civil War.

**Attributes:** BHUM, EUSC

**Restrictions:** Must be enrolled in one of the following Classifications: Master's Candidate, Junior, Senior with Degree, Senior

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**HIST 427 - History of South Africa - 3**

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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 - present. [Dist. SS, II, IC] Prerequisite: 301.

**Attributes:** BSS, DSS, EGC, EUSC, IGR, II

**Prerequisites:** Undergraduate level HIST 301  
Minimum Grade of D

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**HIST 428 - Top in Erpean Women's Studies - 3**

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Selected topics in women's history. Course varies from semester to semester. May be repeated to a maximum of nine hours provided that no topic is repeated. [Dist. SS, II]

**Attributes:** BHUM, DSS, EGC, II

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**HIST 429 - History of Am. Ideas 1865 Pres - 3**

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History of American Ideas 1865-Present traces ideological conflicts and compromises that created the United States after the Civil War.

**Attributes:** BHUM, EUSC

**Restrictions:** Must be enrolled in one of the following Classifications: Master's Candidate, Junior,



Senior with Degree, Senior

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### **HIST 430 - American Colonial Hist - 3**

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Founding of colonies in British America and their development to 1763. [Dist. SS]

**Attributes:** BSS, DSS

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### **HIST 431 - Am Revolution & Constitution - 3**

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Conflicting forces and events that led to the American Revolution and to the Constitution. [Dist. SS]

**Attributes:** BSS, DSS

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### **HIST 440 - Women in Am Social History - 3**

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Women from various social classes; ethnic and racial groups; and geographic regions. Social institutions: family, church, schools, etc. Colonial era to present. [Dist. SS, IGR] Same as WMST 440.

**Attributes:** BSS, DSS, EUSC, IGR

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### **HIST 442 - Black Urban Experience - 3**

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Social, economic, and political history. Emphasizes community life and development, as well as race relations. [Dist. SS, IGR]

**Attributes:** BSS, DSS, EUSC, IGR

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### **HIST 444 - The Civil War Era - 3**

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Exploring in-depth questions related to the era of the American Civil War. Seminar will emphasize shared inquiry through research and historiographical methods.

**Attributes:** BSS, DSS, EUSC, IGR

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### **HIST 445 - American Masculinity - 3**

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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.

**Attributes:** DFAH, EUSC, HUM, IGR

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### **HIST 447 - Oral History - 3**

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Workshop course designed to provide practical experience conducting oral history interviews and to familiarize you with major issues in oral history.

**Attributes:** BSS, DSS, EGC

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### **HIST 451 - Native Amer Encouter Lewis&Clk - 3**

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Investigates the Lewis and Clark expedition from American and especially Native American points of view.

**Attributes:** BHUM, DSS, EUSC, IGR

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### **HIST 452 - Native American Women - 3**

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Investigates Native American gender roles, particularly women's roles, from an ethnohistorical perspective.

**Attributes:** BHUM, DSS, EUSC, IGR

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### **HIST 454 - Hist of the Arab-Israeli Conf - 3**

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Origins and development of Zionism and Palestinian nationalism. Relations between Israel, Palestinians and the Arab states. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

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### **HIST 455 - Women & Gender in Islamic Hist - 3**

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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. Cross-listed with WMST 455.

**Attributes:** BSS, DSS, EGC, IC

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### **HIST 460 - History of Mexico - 3**

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Mexican history from the winning of independence to present. Special attention will be devoted to relations with the U.S. [Dist. SS, II]

**Attributes:** BSS, DSS, EGC, II

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### **HIST 461 - History of Cuba - 3**

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The history of Cuba since 1800, with special

emphasis on the political, economic, and cultural development of the island.

**Attributes:** BSS, DSS, EGC, IC, II

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### **HIST 462 - History of Brazil - 3**

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The history of Brazil since 1800 with a focus on the political, economic and cultural development of the nation.

**Attributes:** BSS, DSS, EGC, IC, II

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### **HIST 470 - Public History - 3**

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Explores how history is communicated and practiced in public arenas, including museums, monuments, documentaries, cemeteries, and historic buildings.

**Attributes:** BSS, DSS

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### **HIST 490 - Internship in History - 3 to 6** <sup>M</sup>

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Professional experience in aspects of historical research, preservation, exhibition, and interpretation. May be repeated to a maximum of 6 hours. Enrollment by permission only.

## **Honors Scholars (HONS)**

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### **HONS 100 - Learning, Working, Living - 1** <sup>S</sup>

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Examination of the nature of liberal education and its relation to work and living. Student-led discussion of issues.

**Restrictions:** May not be enrolled as the following Classifications: Junior, Senior with Degree, Senior

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### **HONS 120 - Honors New Freshman Seminar - 3** <sup>F</sup>

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In-depth examination of big question of enduring human significance. Must be taken concurrently with Honors 121. Satisfies the NFS requirement. For Honors Scholars only.

**Corequisites:** HONS121

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### **HONS 121 - Honors Seminar: Rhetoric - 3** <sup>F</sup>

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Advanced introduction to the practices and techniques of written and oral persuasion through

different venues. Must be taken concurrently with Honors 120. For Honors Scholars only.

**Corequisites:** HONS120

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### **HONS 200 - Globalization - 1**

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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.

**Prerequisites:** Undergraduate level HONS 100 Minimum Grade of C

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### **HONS 250 - Connections: Arts & Humanities - 3** <sup>S</sup>

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Uses the arts and humanities to examine connections between widely divergent times, spaces, cultures, forms of knowledge in order to strengthen the imagination.

**Prerequisites:** Undergraduate level HONS 120 Minimum Grade of C AND Undergraduate level HONS 121 Minimum Grade of C

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### **HONS 300 - Special Topics - 1**

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Examination of a topic of pressing concern; topic chosen bi-annually by honors students. Student led discussion of issue. Prerequisite: Honors 100 with a grade of C or better.

**Attributes:** HEXT

**Prerequisites:** Undergraduate level HONS 100 Minimum Grade of C

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### **HONS 320A - Honors Interdisciplinary Sem A - 3** <sup>FS</sup>

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Seminar examining an enduring question or pressing contemporary problem in the social/behavioral sciences from an interdisciplinary perspective. Provides students an opportunity to apply their knowledge to the problem.

**Attributes:** HEXT, IS

**Prerequisites:** Undergraduate level HONS 250 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**HONS 320B - Honors Interdisciplinary Sem  
B - 3**

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Seminar examining an enduring question or pressing contemporary problem in the natural sciences/life sciences/technology from an interdisciplinary perspective. Provides students an opportunity to apply their knowledge to the problem.

**Attributes:** HEXT, IS

**Prerequisites:** Undergraduate level HONS 250  
Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**HONS 420 - Honors Independent Study - 1  
to 9**

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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.

**Attributes:** HEXT

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**HONS 499 - Civic Engagement - 1**

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Honors capstone experience. 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. Prerequisite: HONS 100 with a grade of C or better.

**Prerequisites:** Undergraduate level HONS 100  
Minimum Grade of C

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**Humanities (HUM)**

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**HUM 150 - Basics of Esperanto - 1**

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Introductory vocabulary and grammar of international language developed by Zamenhof.

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**HUM 234L - Digital Hum & Soc Sci Lab - 1**

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Introduces students to the methods and skills of Digital Humanities and Social Sciences. Must be taken concurrent to CS 234. DHSS minors only.

**Corequisites:** CS234

**Restrictions:** Must be enrolled in one of the following Minors: Digital Humanities and Soc Sci

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**HUM 310A - Esperanto - 3**

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Reading, writing, speaking, and understanding international language developed by Zamenhof. Must be taken in sequence. [Dist. SS, II]

**Attributes:** EGC, II

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**HUM 310B - Esperanto - 3**

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Reading, writing, speaking, and understanding international language developed by Zamenhof. Must be taken in sequence. [Dist. SS, II]

**Attributes:** EGC, II

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**HUM 400 - Symposium in the Humanities - 3**

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Subjects not covered by the standard curriculum. May be repeated up to 6 hours. Credit toward concentration at the discretion of the department.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**HUM 450 - Children and Death - 3**

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Mortality, dying, and bereavement as related to childhood and adolescence; socio-cultural and developmental context; guidelines and resources for caregivers, counselors, educators, and parents.

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**HUM 460 - Hospice - 3**

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Hospice philosophy and programs of care for dying persons and their families both before and after death. [Dist. SS] Course history: Course replaces quarter basic course Humanities 460.

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**HUM 470 - Loss, Grief, and Bereavement - 3**

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Detailed study of pre-death and post-death experiences of grief and mourning. [Dist. SS] Course history: Course replaces the quarter based course Humanities 470.

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**HUM 490 - Topics in Death & Dying - 1 to 3**

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Specified topics in depth, varied content; may be repeated to a maximum of 12 hours without repetition of topic.

### **HUM 495 - Digital Hum & Soc Sci Intrnshp - 3** S

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Required of Digital Humanities and Social sciences minors, students work 10-14 hours per week with an approved internship partner.

**Prerequisites:** Undergraduate level CS 234  
Minimum Grade of C AND Undergraduate level HUM 234L Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Minors: Digital Humanities and Soc Sci

## **Industrial Engineering (IE)**

### **IE 106 - Engineering Problem Solving - 3** FMS

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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.

**Attributes:** SKLG

### **IE 198 - IE Engr Work Expr I - 0** MS

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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 credits.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, May not be enrolled as the following Departments:

### **IE 199 - IE Cooperative Educ I - 0** MS

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First period of a five-year supervised academic/work experience with an agency or firm that uses engineers. Graded as satisfactory/unsatisfactory. Requires Sophomore standing in Industrial Engineering and consent of the Chairperson/Program Director.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following

Classifications: Freshman, 1st Semester, Freshman

### **IE 298 - IE Work Experience II - 0** FMS

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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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level IME 198  
Minimum Grade of D OR Undergraduate level IE 198  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **IE 299 - IME Cooperative Educ II - 0** FMS

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Second period of a five year supervised academic/work experience with an agency or firm that uses engineers. Graded as satisfactory or unsatisfactory. Requires Sophomore or Junior standing in Industrial Engineering and consent of the Chairperson/Program Director.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Sophomore

### **IE 335 - Intro to Info Proc Systems - 3** F

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Development of dynamic data-driven applications on MS Office and web platforms for e-Business information processing.

**Prerequisites:** Undergraduate level CS 145  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **IE 345 - Engr Economic Analysis - 3** FMS

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Introduction to engineering cost and decision analysis. Utilizing principles of economic analysis for choice of engineering alternatives and engineering systems. Requires upper division standing in engineering or consent of instructor.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman,

Sophomore

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**IE 370 - Manufacturing Processes - 3** F

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Properties of engineering metals and alloys, heat treatment, measurement and inspection, casting, forging, metal cutting, nontraditional machining processes, and cutting tools. Prerequisites: CE 242 or equivalent, and upper- division standing in Industrial Engineering or consent of instructor.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**IE 375 - 3-D Model in Product Design - 3** FS

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Computer-aided product design process in computer integrated design and manufacturing environments, 3-D feature-based solid modeling, sketching, concurrent engineering. Prerequisites: Junior/Senior Standing of industrial engineering or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**IE 392 - Rdgs in Industrial Engineering - 1 to 6**

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Supervised reading in selected industrial engineering topics. Requires Junior standing in industrial engineering and consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**IE 398 - Industrial Engr Work Exp III - 0** MS

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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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level IME 298  
Minimum Grade of P OR Undergraduate level IE 298  
Minimum Grade of P

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, May not be enrolled as the following Departments:

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**IE 399 - IE Cooperative Ed III - 0** MS

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Third period of a five-year supervised academic/work experience with an agency or firm that uses engineers. Graded as satisfactory or unsatisfactory. Requires Sophomore or Junior standing in industrial engineering and consent of the chairperson/program director.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**IE 401 - Biomechanics - 3**

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Mechanics of human body systems including basic anatomy of human body, 2D and 3D biomechanical models and application of models in real-life problems.

**Prerequisites:** Undergraduate level IME 370  
Minimum Grade of C OR Undergraduate level IE 370  
Minimum Grade of C

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**IE 415 - Op Res Deterministic Models - 3** S

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Linear programming; problem formulation; simplex algorithm; transportation and network problems; duality theory; and sensitivity theory. Requires knowledge of Fortran, MATH 250, or consent of instructor. Same as OR 440.

**Prerequisites:** Undergraduate level MATH 250  
Minimum Grade of D

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**IE 427 - Knowledge-Based Systems - 3** M

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Engineering-oriented perspective on artificial intelligence (AI) technology. General AI concepts

and specifically knowledge-based (expert) systems applied to engineering problem-solving. Requires knowledge of one of the familiar computer programming languages (Basic, C, Fortran, or Pascal) or consent of instructor. Same as CE 427, ECE 427 and ME 427.

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**IE 430 - Managing Engr and Tech - 3** M

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Management functions of planning; organizing, motivating, controlling, and analyzing application of these functions in engineering research, design, production, technical marketing, and project management. Requires Junior or Senior standing in IE.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**IE 431 - Project Analysis & Control - 3** M

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Examines the theories and best practices for completing projects on time, on budget, and to specification.

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**IE 445 - Foundations of Finance Engr - 3**

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Financial engineering integrates computational intelligence, mathematical finance, numerical methods and computer simulations for pricing, trading, hedging, and investment decisions.

**Prerequisites:** (Undergraduate level IME 345 Minimum Grade of C OR Undergraduate level IE 345 Minimum Grade of C) AND Undergraduate level STAT 380 Minimum Grade of C

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**IE 451 - Meth Design & Work Measurement - 3** S

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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.

**Prerequisites:** Undergraduate level STAT 380 Minimum Grade of D OR Undergraduate level IE 365 Minimum Grade of D OR Undergraduate level IME 365 Minimum Grade of D

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**IE 458 - Human Factors Engineering - 3**

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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.

**Prerequisites:** Undergraduate level IME 451 Minimum Grade of D OR Undergraduate level IE 451 Minimum Grade of D OR Graduate level IME 451 Minimum Grade of C OR Graduate level IE 451 Minimum Grade of C

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**IE 461 - Ops Reserch Stoch Models - 3** S

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Probability models; elementary queuing theory with single or multiple servers. Markov processes and models; and decision theory. Same as OR 441.

**Prerequisites:** Undergraduate level STAT 380 Minimum Grade of D OR Undergraduate level STAT 480A Minimum Grade of D OR Graduate level STAT 480A Minimum Grade of C

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**IE 462 - Six Sigma, Quality and Process - 3**

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Provides a comprehensive understanding of the role and value of Six Sigma as an integrated approach to solving process-based problems in quality.

**Prerequisites:** STAT 380 with a grade of C or higher; or Graduate Level status.

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**IE 463 - Reliability Engineering - 3**

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Probabilistic models for the reliability of coherent systems. Statistical models for lifetimes of components and repairable systems. Reliability estimation and prediction. MIL standards. Same as STAT 484. Prerequisites: STAT 480b or STAT 380 or IE 365 with grades of C or better; or consent of instructor.

**Prerequisites:** Undergraduate level STAT 480B Minimum Grade of C OR Graduate level STAT 480B Minimum Grade of C OR Undergraduate level STAT 380 Minimum Grade of C

### **IE 464 - Design and Analysis - 3** s

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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. Crosslisted with IE 464.

**Prerequisites:** Undergraduate level STAT 380 Minimum Grade of C OR (Undergraduate level STAT 480A Minimum Grade of C AND Undergraduate level STAT 480B Minimum Grade of C)

### **IE 465 - Design & Control of Qual Sys - 3** s

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### **IE 466 - Engineering Metrology - 3**

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Exposes the student to the principles associated with dimensional measurement, inspection, measurement systems analysis, and geometric dimensioning and tolerancing.

**Prerequisites:** Undergraduate level IME 370 Minimum Grade of D OR Undergraduate level IE 370 Minimum Grade of D

### **IE 467 - Total Qual & Taguchi Methods - 3**

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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:** Undergraduate level IME 465 Minimum Grade of D OR Undergraduate level IE 465 Minimum Grade of D OR Graduate level IME 465 Minimum Grade of C OR Graduate level IE 465 Minimum Grade of C

### **IE 468 - Operations Research Sim - 3** F

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Design of simulation models using a high level simulation programming language. Applications in production, inventory, queuing, and other models. Same as IE 468. Prerequisites: IE 365 or IE 461 or OR 441 or STAT 380 or consent of instructor.

**Prerequisites:** Undergraduate level IME 461 Minimum Grade of C OR Undergraduate level IE 461 Minimum Grade of C OR Graduate level IME 461 Minimum Grade of C OR Graduate level IE 461

Minimum Grade of C OR Undergraduate level STAT 380 Minimum Grade of C OR Undergraduate level OR 441 Minimum Grade of C OR Graduate level OR 441 Minimum Grade of C

### **IE 470 - Manufacturing Systems - 3** s

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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:** (Undergraduate level IME 370 Minimum Grade of D OR Undergraduate level IE 370 Minimum Grade of D) AND (Undergraduate level STAT 380 Minimum Grade of D OR Undergraduate level IE 365 Minimum Grade of D OR Undergraduate level IME 365 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **IE 475 - CAD/CAM/CAE (Comp Aided Engr) - 3** s

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Advanced 3-D solid and assembly modeling in computer-integrated design and manufacturing environments; parametric and associative modeling; and sketch modeling.

**Prerequisites:** Undergraduate level IE 375 Minimum Grade of D OR Undergraduate level IME 375 Minimum Grade of D

### **IE 476 - Plantwide Process Control - 3** F

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A treatment of techniques in automated control. Digital, analog, open and closed loop controls are discussed. Students gain experience with PC data acquisitions and control.

**Prerequisites:** Undergraduate level ECE 210 Minimum Grade of D AND Undergraduate level CS 145 Minimum Grade of D

### **IE 477 - Comp Integ Manuf Systems - 3**

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Application of robot theory integrated with automated manufacturing systems. Emphasis on design laboratory exercises.

**Prerequisites:** Undergraduate level CS 145  
Minimum Grade of C AND (Undergraduate level IME 470 Minimum Grade of C OR Graduate level IME 470 Minimum Grade of C OR Undergraduate level IE 470 Minimum Grade of C OR Graduate level IE 470 Minimum Grade of C) AND (Undergraduate level IME 476 Minimum Grade of C OR Graduate level IME 476 Minimum Grade of C OR Undergraduate level IE 476 Minimum Grade of C OR Graduate level IE 476 Minimum Grade of C)

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Visiting Student

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### **IE 478 - Industrial Robotics - 3**

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:** Undergraduate level IME 370  
Minimum Grade of C OR Undergraduate level IE 370  
Minimum Grade of C

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### **IE 480 - Tool Engineering - 3**

This course covers topics including locating/orientation principles, clamping, positioning, and concepts required to design and fabricate tooling for machining, joining, and bulk deformation processes. Prerequisite: [IME 345 and IME 370] OR [IE 345 and IE 370] OR [IE 345 and IME 370] OR [IE 370 and IME 345] with minimum grade of D (concurrent enrollment allowed in IE 345 and IME 345).

**Prerequisites:** (Undergraduate level IME 370 Minimum Grade of D AND Undergraduate level IME 345 Minimum Grade of D (concurrency allowed)) OR (Undergraduate level IE 370 Minimum Grade of D AND Undergraduate level IE 345 Minimum Grade of D (concurrency allowed)) OR (Undergraduate level IME 370 Minimum Grade of D AND Undergraduate level IE 345 Minimum Grade of D (concurrency allowed)) OR (Undergraduate level IE 370 Minimum Grade of D AND Undergraduate level IME 345 Minimum Grade of D (concurrency allowed))

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### **IE 482 - Manufacturing Engr Design - 3**

Topics include tolerancing, material selection, cost

estimation, process planning, product fabrication, and activities required to bring product from conceptual design through manufacture. Prerequisite: [IME 345 and IME 370] OR [IE 345 and IE 370] OR [IE 345 and IME 370] OR [IE 370 and IME 345] with minimum grade of D (concurrent enrollment allowed in IE 345 and IME 345).

**Prerequisites:** (Undergraduate level IME 345 Minimum Grade of D (concurrency allowed) AND Undergraduate level IME 370 Minimum Grade of D) OR (Undergraduate level IE 345 Minimum Grade of D (concurrency allowed) AND Undergraduate level IE 370 Minimum Grade of D) OR (Undergraduate level IME 345 Minimum Grade of D (concurrency allowed) AND Undergraduate level IE 370 Minimum Grade of D) OR (Undergraduate level IE 345 Minimum Grade of D (concurrency allowed) AND Undergraduate level IME 370 Minimum Grade of D)

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### **IE 483 - Production Planning & Control - 3**

F

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. (2 hours lecture, 2 hours laboratory). Requires senior standing in Industrial engineering or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Visiting Student

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### **IE 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. Prerequisites: IE 415, IE 451 and upper-division standing in Industrial Engineering or consent of instructor.

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### **IE 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.

**Prerequisites:** Undergraduate level IME 483  
Minimum Grade of D OR Graduate level IME 483  
Minimum Grade of C OR Undergraduate level IE 483  
Minimum Grade of D OR Graduate level IE 483  
Minimum Grade of C

### **IE 490 - Integrated Engineering Design - 3** <sup>S</sup>

Individual/ group laboratory or industrial projects of a research, design, or development nature which may apply to engineering systems. (2 hours lecture, 2 hours laboratory). Requires Senior standing in Industrial Engineering or consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Visiting Student

### **IE 492 - Special Topics in IE - 1 to 6** <sup>S</sup>

Selected topics of current interest in Industrial Engineering and related fields. May include individual research projects for students with honors standing. Requires Senior standing in Industrial.

**Restrictions:** Must be enrolled in one of the following Majors: Industrial Engineering, Mechanical Engineering, Manufacturing Engineering, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Visiting Student

## **Integrative Studies (INTG)**

### **INTG 300 - Foundations of Integrative Std - 3** <sup>FS</sup>

Designed to introduce students to the Integrative Studies degree as well as the process of integrative/interdisciplinary study and research.

**Restrictions:** Must be enrolled in one of the following Majors: Integrative Studies

### **INTG 499 - Senior Assignment - 3** <sup>FMS</sup>

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:** Undergraduate level INTG 300  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Integrative Studies, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

## **International Studies (INTS)**

### **INTS 200 - International Studies - 3** <sup>FS</sup>

Introduces students to the interdisciplinary character of international studies and to acquaint them with the major trends and themes in global affairs today.

**Attributes:** EGC, II

**Restrictions:** Must be enrolled in one of the following Majors: International Studies

### **INTS 400 - Internship in Intl Studies - 3** <sup>MS</sup>

International Studies related supervised work experience. Minimum of 50 hours required.

**Attributes:** II

**Restrictions:** Must be enrolled in one of the following Majors: International Studies, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **INTS 401 - Independent Project in INTS - 3**

Supervised reading or focused research project on a topic not regularly offered in the International Studies curriculum. May be repeated to a maximum of 6 hours.

**Attributes:** II

**Prerequisites:** Undergraduate level INTS 200  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: International Studies, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **INTS 499 - Capstone - 3**

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Independent research project in an area of international studies that integrates linkages between areas of concentration and disciplinary foci of study. Requires final presentation.

**Attributes:** II

**Prerequisites:** Undergraduate level INTS 200 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: International Studies, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### **Interdisciplinary Studies (IS)**

#### **IS 301 - Mathematics and Politics - 3**

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An exploration of political structures (such as social choice, apportionment, yes/no voting, conflict, or polling) from the perspectives of mathematics and political science.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **IS 302 - African American Music & the Struggle for Freedom - 3**

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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.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

#### **IS 303 - The Greatest Motion Pictures - 3**

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An in-depth view of the films that have shaped motion picture history from the perspectives of the Theatre and Mass Communications disciplines.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student, May not be enrolled as the following Levels: Graduate

### **IS 304 - World Mythology - 3**

---

An exploration of aspects of the physical environment and human experience from the viewpoints of classical mythology and contemporary science.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **IS 305 - Native American Studies - 3**

---

An examination of Native American studies from multiple disciplinary perspectives, such as anthropology, archaeology, history, philosophy, and/or political science.

**Attributes:** EUSC, IGR, IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student, May not be enrolled as the following Levels: Graduate

#### **IS 309 - History of Popular Music - 3**

---

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.

**Attributes:** EUSC, IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

#### **IS 319 - Disability in America - 3**

---

Provides an overview of important historical and contemporary issues related to persons with disabilities in the United States.

**Attributes:** IS

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

#### **IS 320 - History and Chemistry of Beer & Spirits - 3**

---

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.

**Attributes:** IS

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

---

### **IS 321 - Biotechnology and Ethics - 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.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

---

### **IS 322 - Ethics, Biology, and Society - 3**

---

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.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### **IS 324 - Peoples & Cultures of the East - 3** <sup>FM</sup>

---

Key organization principles; religious and philosophical norms; social customs; and aesthetic tastes of China, Japan, and other selected Asian nations. (History/Philosophy).

**Attributes:** EGC, IC, IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### **IS 326 - Modern Latin America - 3**

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A multi-disciplinary, team-taught introduction to modern nations of Latin America and Caribbean emphasizing history, literature, political economy, geography, and anthropology. (Anthropology/Foreign Languages/Educational Leadership/History).

**Attributes:** EGC, II, IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### **IS 328 - History and Science - 3**

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Development of scientific questions in historical perspective, and relation of scientific concepts to development of culture; ancient Greece to present. [IS or Dist. NSM, not both] (History/Physics)

**Attributes:** DNSM, IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### **IS 331 - Mind and Language - 3**

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A study of the relationship between thought and language from a variety of academic disciplines, which may include philosophy, linguistics, history, psychology, or speech communication.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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### **IS 332 - The Pol&Soc Thght o/Heg & 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.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### **IS 334 - Nat Res: Issues & Conflicts - 3** <sup>M</sup>

---

American land resource conservation. Principles, practices and problems from the perspective of biology, geography, and earth science. (Biology/Earth Science).

**Attributes:** IS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 335 - Early III: Its Land & People - 3**

---

Geology and geography of prehistoric/historic Indian cultures and European settlement before 1818. Use of visual materials to demonstrate relationships between people and their physical environment. (Anthropology/Geography/History).

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 336 - Glob Prob & Hum Surv - 3**

---

FMS

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)

**Attributes:** EGC, II, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 340 - The Problem of War and Peace - 3**

---

S

Basic concepts, historical background, causes of war, and perspectives of major nations; contemporary ideological, economic, military, political, and legal aspects; and proposals for controlling conflict. (History/Philosophy/Psychology)

**Attributes:** EGC, II, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 341 - The Immigrant in America - 3**

---

Impact of immigrant groups on American social, political, and cultural patterns; assimilation, stereotyping, generational conflict, and nativism. (English/History)

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**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; valuational aspects; and education. (Philosophy/Health Education)

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 343 - Contemporary Hlth Care Issues - 3**

---

FS

Seminar: examination of contemporary health issues of diverse cultures across the lifespan. Discussion of global trends; and cultural, lifespan, and ethical aspects of each topic.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 344 - History Nursing & Health Care - 3**

---

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 issues in contemporary world. Junior or Senior standing (60 or more credits completed) required.

**Attributes:** EGC, IC, IS

**Restrictions:** Must be enrolled in one of the following  
Classifications: Junior, Senior with Degree, Senior

---

**IS 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.

**Attributes:** EUSC, IGR, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

**IS 350 - Women in Social Institutions - 3**

---

Historical, cultural, and social class differences in contexts of education, family, health care, economics, religion, and politics. (Anthropology/Foundations of Education/History/Women's Studies) Same as WMST 350.

**Attributes:** EUSC, IGR, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### IS 352 - Women in the Ancient World - 3

---

History, political, and social lives and literary and artistic representations of/by women in ancient Egypt, Mesopotamia, Greece and Rome. Same as WMST 352.

**Attributes:** EGC, EUSC, IC, IGR, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### IS 353 - Repres Wmn's Bod 0300 - 1500 - 3 <sup>M</sup>

---

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.

**Attributes:** EGC, IC, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### IS 354 - Islam and Politics - 3

---

The central ideas and texts of Muslim political thinkers and their relevance for the historical context of contemporary events in the Muslim world and beyond.

**Attributes:** EGC, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

---

### IS 360 - Survival of the Fittest - 3

---

The overlap of scientific thought and literary convention in Victorian times. Their relationship is

emphasized through lectures, laboratories and discussions.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### IS 361 - Music: Art and Science - 3 <sup>S</sup>

---

Relationship between science and art in music; pitch, overtones, scales, digital recording, and mathematical ratios in art and science.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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### IS 363 - Living Ecologically - 3

---

General principles of living system sustainability applied to organic chemicals, cell symbiosis, plants, animals, human families, cities, societies, and the world ecosystem.

**Attributes:** EGC, II, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

---

### IS 364 - Atom Era:Hitl,t/Holoc&t/Bomb - 3 <sup>F</sup>

---

Political events leading to the emigration of European scientists to America before World War II; development of the atomic bomb; and political and social ramifications of the atomic era; includes lab. [IS,II, IC] Prerequisite: Junior standing

**Attributes:** EGC, IC, II, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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### IS 372 - Understanding Violence - 3

---

Examines a number of theories as they related to a wide range of manifestations of violence in the human community.

**Attributes:** IS

**Restrictions:** Must be enrolled in one of the following  
Classifications: Junior, Senior

### **IS 375 - Technology and Public Policy - 3**

---

Seminar: examines competition between government and society over global economic, ethical, and moral impacts of science and technology on diverse groups.

**Attributes:** EGC, EUSC, IGR, II, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **IS 376 - Inform Technology & Society - 3**

---

Investigation of social and ethical issues associated with information technology and its increasing importance in modern life. (Computer Science and Philosophical Studies).

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore, Visiting Student

### **IS 377 - The Arts & the French Revol - 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. (History/Music).

**Attributes:** EGC, IC, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **IS 380 - Song and Poetry - 3**

---

M

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.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **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).

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **IS 386 - Cyberarts:Expr FA& Comp Tec - 3**

---

S

Explores relationships between art and computer technology in graphics, music, video, and film. Out of class computer work. One university level computer course is strongly recommended. (Theatre and Dance/Computer Science) Requires Junior or Senior standing.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore, Visiting Student

### **IS 387 - Philosophy and Modern Physics - 3**

---

The course introduces the student to the dramatic connections among revolutionary developments that occurred throughout the twentieth century in philosophy, physics and closely related disciplines.

**Attributes:** IS

**Prerequisites:** Undergraduate level PHYS 111  
Minimum Grade of D OR (Undergraduate level PHYS 131A Minimum Grade of D AND Undergraduate level PHYS 131B Minimum Grade of D) OR (Undergraduate level PHYS 151 Minimum Grade of D AND Undergraduate level PHYS 152 Minimum Grade of D) OR (Undergraduate level PHYS 206A Minimum Grade of D AND Undergraduate level PHYS 206B Minimum Grade of D) OR (Undergraduate level PHYS 211A Minimum Grade of D AND Undergraduate level PHYS 211B Minimum Grade of D)

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **IS 388 - Art and Pol in 19th C France - 3**

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Nineteenth century France is shattered by industrialism, urbanization, and commercialization. Course describes the way art and politics put world back together or escape from it.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Visiting Student

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**IS 399 - Interdiscipln Studies:Spc Topcs - 3** FMS

---

Multi-subject selected topics that provide opportunities to observe and participate in the interaction of two or more disciplines. May be repeated for a maximum of 9 hours provided no topic is repeated.

**Attributes:** IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore, Visiting Student

---

**IS 400 - Hist,Cult &the Lang of China - 3**

---

A travel study course in Chinese language, history, and culture offered in China. (Foreign Languages/History).

**Attributes:** EGC, IC, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Visiting Student

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**IS 401 - Business and Society - 3** FMS

---

The examination of social, legal, economic, political, global and ethical environments confronting contemporary business. Emphasizes analysis and appreciation of interdisciplinary perspectives in corporate social responsibility. Not for Graduate credit.

**Attributes:** EGC, II, IS

**Prerequisites:** Completion of at 75 credit hours including FIN 320, CMIS 342, MKTG 300, and [(MGMT 330 and MGMT 331) or MGMT 341].

**Restrictions:** Must be enrolled in one of the following Majors: Accountancy,Business Administration,Business Economics and Finance,Computer Management and Info Sys, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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**IS 402 - Spanish Health Professionals - 3**

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Expand knowledge of Spanish language and culture with emphasis on preparing to work in health related fields.

**Attributes:** IS

**Prerequisites:** Undergraduate level SPAN 101  
Minimum Grade of C AND Undergraduate level  
SPAN 102 Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

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**IS 403 - Global Health - 3**

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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.

**Attributes:** EH, IS

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**IS 444 - Deconstructing 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 there IS requirement.

**Attributes:** IS

**Restrictions:** May not be enrolled as one of the following Majors: Mass Communications

## **Instructional Technology (IT)**

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**IT 100 - Digital Learning in University - 3**

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This course focuses both on digital production skills and learning strategies that enable students to learn more effectively in today's university.

**Attributes:** BICS

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**IT 300 - Digital Learning/Communication - 3** FS

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The integration of digital tools into the K-12 curriculum. Focuses on related instructional and communication strategies, as well as various digital tools.

**Attributes:** BICS

**Prerequisites:** Undergraduate level CIED 100  
Minimum Grade of C

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### **IT 410 - Media in Instruction - 3**

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Designing lessons with multi-sensory approach. Demonstrations and hands-on experiences with audio, video projection, and computer equipment. Emphasis on software evaluation and utilization.

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### **IT 430 - Comp Based Pub and Instruc - 3**

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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.

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### **IT 435 - Producing Instructional Mat - 3**

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Development of instructional products which integrate various digital media. Emphasis on production, visual communication, graphics, authoring environments, and evaluation of instructional software. Prerequisite: Consent of department chair or program director.

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### **IT 442 - Media Selection - 3**

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Analysis and criteria for selecting aids and reviewing sources. Includes principles and theories of library media selection, assessment and policy for library media collection development.

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### **IT 443 - Instr Media for Children & YA - 3**

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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.

---

### **IT 448 - Cataloging for Schl Librarian - 3**

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Principles and skills of cataloguing all types of materials, including the use of bibliographic records, Dewey Decimal classification, and Library of Congress Subject Headings.

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### **IT 450 - Using Video For Instruction - 3**

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Instructional television as medium for learning. Emphasis on delivery systems including commercial, public, and satellite programs; and teacher-produced instructional sequences.

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### **IT 481 - Computers in Educ: Theory & Pr - 3** <sup>F</sup>

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Research on and effective methods for using computers in an educational setting and a systematic framework for integrating computers into the curriculum.

---

### **IT 486 - Web Design for Instruction - 3** <sup>S</sup>

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Web design concepts for educational settings including usability concepts, web style criteria, interaction and instructional strategies; and legal/ethical issues related to web development. Requires consent of department chair or program director.

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### **IT 490 - Special Topics - 1 to 6**

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Varied content. Topics of immediate concern in instructional technology field. May be repeated up to 6 hours as long as no topic is repeated.

## **Italian (ITAL)**

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### **ITAL 101 - Elementary Italian I - 4** <sup>F</sup>

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Listening, speaking, reading and writing within context of Italian culture. [Skills]

**Attributes:** BICS, FL, HUM, SKFL

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### **ITAL 102 - Elementary Italian II - 4** <sup>S</sup>

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Continuation of ITAL 101. Lab included. [Skills, IC]

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL

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### **ITAL 104 - Elementary Italian - 8**

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Intensive instruction in listening, speaking, reading and writing within context of Italian culture. Lab included. Equivalent to ITAL 101 and ITAL 102 combined. Must enroll in all 8 hours credit. Check



with department chairperson to determine if course will be offered.

**Attributes:** EGC, FL, HUM, IC, SKFL

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### **ITAL 201 - Intermediate Italian I - 4**

Continued practice in listening, speaking, reading and writing. Grammar review. Cultural and literary readings and compositions. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level ITAL 102  
Minimum Grade of D OR Undergraduate level ITAL 104 Minimum Grade of D

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### **ITAL 202 - Intermediate Italian II - 4**

Continuation of 201. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level ITAL 102  
Minimum Grade of D

---

### **ITAL 220 - Intermediate Ital Conversation - 3**

Practice in intermediate-level conversation. Focus on pronunciation and fluency.

**Attributes:** HUM

**Prerequisites:** Undergraduate level ITAL 102  
Minimum Grade of D

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### **ITAL 311 - Ital Culture and Civilization - 3**

Significant aspects of Italian culture. Course satisfies the advanced level general education requirement in fine arts and humanities, and the international culture general education requirement.

**Attributes:** DFAH, EGC, HUM, IC

**Prerequisites:** Undergraduate level ITAL 202  
Minimum Grade of D

---

### **ITAL 499 - Independent Study in Italian - 2 to 6**

Selected areas of language, literature, and culture. Individual work or small groups supervised by Italian faculty.

**Attributes:** HUM

**Prerequisites:** Undergraduate level ITAL 202  
Minimum Grade of D

## **Kinesiology (KIN)**

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### **KIN 110 - Intro to Health Professions - 1**

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.

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### **KIN 112 - Selected Sport and Fitn Actvs - 1**

Instruction and participation in a variety of activities.

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### **KIN 113 - Physical Fitness - 1**

Movement activities designed to achieve flexibility; strength; and muscular and aerobic endurance.

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### **KIN 114 - Racquetball - 1**

Instruction and participation in a leisure racquet sport.

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### **KIN 115 - Beginning Swimming - 1**

Water adjustment and stroke techniques for the beginning swimmer.

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### **KIN 116 - Archery - 1**

Basic target shooting.

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### **KIN 117 - Badminton - 1**

Basic skill development and game play in singles and doubles.

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### **KIN 118 - Bowling - 1**

Basic technique, skill development, and scoring for beginning bowler.

F

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**KIN 119 - Golf - 1**

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Basic technique, skill development, and scoring for the beginning golfer. An additional fee will be assessed to cover driving range and greens fees.

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**KIN 120 - Tennis - 1**

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Basic skill development and game play in singles and doubles.

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**KIN 121 - Volleyball - 1**

---

Skill techniques, game play, and basic offensive and defensive patterns of play.

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**KIN 122 - Recreational Sports - 1**

---

Wide variety of leisure and family oriented activities.

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**KIN 123 - Aerobic Dance - 1**

---

Rhythmic concepts and exercise application to improve flexibility, endurance and muscle tone.

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**KIN 155 - ACE - 3**

---

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.

**Restrictions:** May not be enrolled as the following Classifications: Junior, Senior with Degree, Sophomore, Senior, Must be enrolled in one of the following Levels: Undergraduate

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**KIN 200 - Selected Fitness Activities - 2** FS

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(EH) Instruction and participation in a variety of fitness-related activities.

**Attributes:** EH

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**KIN 201 - Aerobics Level I - 2**

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Basic principles and application for cardiovascular exercise.

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**KIN 202 - Aerobics Level II - 2**

---

High intensity level of cardiovascular exercise and individual prescription.

**Prerequisites:** Undergraduate level KIN 201  
Minimum Grade of D

---

**KIN 203 - Fitness and Sport Activities - 2** S

---

Components and principles of fitness applied to various activities.

**Attributes:** EH

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**KIN 204 - Jogging to Fitness - 2** FS

---

Aerobic running.

**Attributes:** EH

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**KIN 205 - Personal Shape Up - 2** FS

---

Assessment and individualized program.

**Attributes:** EH

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**KIN 206 - Strength Training/Flexibility - 2**

---

Strength training through a full range of movement.

**Attributes:** EH

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**KIN 207 - Weight Training - 2** FS

---

Free weights and exercise machines.

**Attributes:** EH

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**KIN 208 - Weight Training Level II - 2**

---

Advanced technique of isotonic exercise.

Prerequisite: KIN 207 or consent of instructor.

**Prerequisites:** Undergraduate level KIN 207  
Minimum Grade of D

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**KIN 209 - Tumbling - 2**

---

Basic stunts and self-testing activities.

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**KIN 211 - Medical Terminology - 3** FMS

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Learn to read and comprehend original research,

medical reports, and health/fitness evaluations related to prefixes, suffixes, and word roots of medical terms.

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**KIN 220 - Selected Sport Activities - 2** s

---

Instruction and participation in a variety of popular sports.

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**KIN 221 - Intermediate Bowling - 2**

---

Advanced skills and individualized analysis of error.

---

**KIN 222 - Intermediate Golf - 2**

---

Advanced technique and skill development for the experienced golfer. An additional fee will be assessed to cover driving range and greens fees.

---

**KIN 223 - Intermediate Tennis - 2**

---

Advanced stroke techniques and strategy for singles and doubles.

**Prerequisites:** Undergraduate level KIN 120  
Minimum Grade of D

---

**KIN 224 - Intermediate Racquet Ball - 2**

---

Advanced skills and techniques.

**Prerequisites:** Undergraduate level KIN 114  
Minimum Grade of D

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**KIN 225 - Intermediate Volleyball - 2**

---

Advanced skills and strategies for power volleyball.

**Prerequisites:** Undergraduate level KIN 121  
Minimum Grade of D

---

**KIN 230 - Selected Aquatic Activities - 2**

---

Instruction and participation in a variety of aquatic experiences.

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**KIN 231 - Aquatic Exercise - 2**

---

Water fitness exercises for all levels of ability.

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**KIN 232 - Lap Swimming - 2**

---

Endurance swimming.

**Prerequisites:** Undergraduate level KIN 115  
Minimum Grade of D

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**KIN 233 - Water Games - 2**

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Recreation and modified aquatic sport activities.

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**KIN 240 - Selected Recreational Activities - 2**

---

Instruction and participation in a variety of recreational games. Activity or level may not be repeated.

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**KIN 241 - Recreational Softball - 2**

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Softball for family fun.

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**KIN 242 - Recreational Volleyball - 2**

---

Volleyball for family fun.

---

**KIN 243 - Leisure Activities - 2** FS

---

Self-directed leisure activities with emphasis on individual planning and programming for individual/dual and non-competitive activities.

**Attributes:** EH

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**KIN 250 - Selected Rhythmical Activities - 2**

---

Variety of experiences reflecting trends in rhythmical movement patterns. Activity or level may not be repeated.

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**KIN 251 - Ballroom Dancing - 2**

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Smooth and rhythmic ballroom dance.

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**KIN 252 - Dances of Today - 2**

---

Contemporary social dances.

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**KIN 253 - Modern Square Dance - 2**

---

Contemporary square dances.

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**KIN 270 - Personal Wellness - 3**

FS

Assist in developing an understanding and appreciation for personal wellness as a lifestyle through lecture and fitness activity. Does not meet teacher education health requirement.

**Attributes:** EH

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**KIN 275 - Intro to Careers Nutr Exer Sci - 3**

FMS

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.

**Prerequisites:** Prereq: Cumulative GPA of 2.5 or greater. (SOE-14-1086 & SOE-15-1107)

---

**KIN 301 - Aquat Activs/Lifet Leis Pursut - 2**

Development of skill techniques, teaching progressions, and related concepts pertaining to activity identified in title.

**Restrictions:** Must be enrolled in one of the following Majors: Kinesiology

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**KIN 306 - Tumbling and Gymnastics - 1**

Developmentally appropriate team activities including elementary, middle and high school level skills and tactics.

---

**KIN 308 - Human Development - 3**

Comprehension study of the theories, concepts, and Empirical research which investigate human development from conception to death. Topics include cognitive, personality, social, and emotional.

**Restrictions:** Must be enrolled in one of the following Departments: Applied Health, Must be enrolled in one of the following Levels: Undergraduate

---

**KIN 310 - Exercise Psychology - 3**

FMS

Designed to provide an overview of the major

psychological determinants and consequences of exercise and its impact on public health.

**Prerequisites:** Undergraduate level KIN 275  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Exercise Science, Exercise and Wellness, Exercise and Sport Psychology

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**KIN 314 - Functional Anatomy (PE) - 3**

Structural and functional basis of human performance relevant to physical educators.

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**KIN 315 - Functional Anatomy - 3**

FMS

Structural and functional basis of human performance.

**Prerequisites:** Undergraduate level BIOL 240A  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 316 - Biomechanics of Human Movement - 3**

FS

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 minimum grade of D or concurrent enrollment. For Exercise and Wellness majors only.

**Prerequisites:** Undergraduate level KIN 315  
Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology, Physical Education Teacher Ed

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**KIN 317 - Biomecha of Hum Move n/PE - 3**

Mechanics applied to physical performance; analysis of specific performance skills and application to

instructional process relevant to physical educators. Two hours lecture and two hour laboratory per week.

**Prerequisites:** Undergraduate level KIN 314  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Physical Education Teacher Ed

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**KIN 319 - Theory and Tech in St And Cond - 3** FS

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Student will learn the basic exercise physiology concepts and exercise techniques required to successfully pass nationally recognized personal training certification exams.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness

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**KIN 321 - Intro to Muscle Injury & Rehab - 3**

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Overview of basic musculoskeletal injuries, dysfunctions and rehabilitation. Course is designed for pre-allied health and fitness professionals.

**Prerequisites:** Undergraduate level KIN 315  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science

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**KIN 325 - Adapted Physical Education - 3**

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Survey of various disabilities. Stresses assessment, curriculum design, instructional strategies, and teaching physical activity in the least restrictive environment.

**Restrictions:** Must be enrolled in one of the following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology, Physical Education Teacher Ed

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**KIN 330 - Integr Hlth Phy Ed K-8 Curr - 2** F

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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:** Undergraduate level CIED 100  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Elementary Education

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**KIN 331 - Motor Development of Children - 2**

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Explores the role of movement and maturational sequence in the child's total development. Emphasis on qualitative movement and movement education themes.

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**KIN 333 - Rhythmical Activits/Children - 2**

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Developmentally appropriate rhythmical patterns including fundamental, creative, and interpretive movements and singing games. Prerequisites: KIN 302 and KIN 330.

**Prerequisites:** Undergraduate level KIN 302  
Minimum Grade of D AND Undergraduate level KIN 330  
Minimum Grade of D

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**KIN 334 - Early Childhood PE - 3** F

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Movement skill activities and analysis related to motor development in young children. Includes planning and teaching of developmentally appropriate physical activities.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology, Exercise and Sport Psychology, Physical Education Teacher Ed

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**KIN 340 - Org of Exercise Facilities - 3** FMS

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Theoretical and practical aspects of selected organization and management procedures which relate to the development, implementation, operation, and evaluation of exercise and wellness facilities.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science

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**KIN 350 - Exercise Physiology - 3** FMS

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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.

**Prerequisites:** Undergraduate level BIOL 240B  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness

### **KIN 355 - Sports Nutr & Supplements - 3** FS

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(Crosslisted with 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.

**Prerequisites:** Undergraduate level NUTR 250  
Minimum Grade of C OR Undergraduate level NUTR 319  
Minimum Grade of C OR Undergraduate level KIN 350  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Exercise Science, Exercise and Wellness, Exercise and Sport Psychology

### **KIN 360 - Coaching Techniques - 2**

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Introduction to basic principles and techniques of coaching including philosophy, style, ethics, responsibilities/duties, management issues, planning/preparation, psychology of coaching, and physical training techniques.

### **KIN 365 - Theory of Coaching - 3**

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In-depth analysis of relationship between psychological theory and sport performance. Emphasis on strategies and interventions by coaches to effectively lead, motivate, and communicate with athletes.

### **KIN 370 - Care/Preventn of Athl Injuries - 2**

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Conditioning techniques to minimize injuries. Athletic training techniques to identify and utilize appropriate treatment modalities for sport-related injuries. Prerequisite: KIN 315.

**Prerequisites:** Undergraduate level KIN 315  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

### **KIN 373 - Sport Psychology - 3** S

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Examines the application of psychological theory, research methods, and intervention techniques in the realm of sport and physical activity.

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Sophomore, Senior

### **KIN 375 - Coaching Practicum - 1 to 2**

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Provides an experience to observe and assist with duties of coaching a sport at junior or senior high school level. May be repeated to a maximum of 2 hours.

**Restrictions:** Must be enrolled in one of the following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr.

### **KIN 401 - Sport Med & Rehab Psychology - 3**

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Provides overview of the psychological issues associated with the field of sport medicine and injury recovery.

**Attributes:** EH

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Sophomore, Senior

### **KIN 412 - Biol/Cardiovas&Metabol Disease - 3** FMS

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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 319 with C or better.

**Prerequisites:** Undergraduate level KIN 350  
Minimum Grade of C OR Undergraduate level NUTR

319 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 416 - Exercise Assessment/Programmin - 3**

FMS

Introductory course to the theoretical and practical concepts of exercise assessment, interpretation, and prescription. Not for graduate credit.

**Prerequisites:** Undergraduate level KIN 350 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 417 - Exercise for Special Pops - 3**

FMS

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.

**Prerequisites:** Undergraduate level KIN 350 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Exercise Science, Exercise and Wellness, Exercise and Sport Psychology

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**KIN 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. Prerequisite: KIN 416 with minimum grade of D or concurrent enrollment.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 419 - Phys Effects Motor Act (PE) - 0 to 3**

Function and regulation of major human systems and responsiveness of these systems to activity relevant to physical educators. Two-hour lecture and two-hour laboratory per week.

**Prerequisites:** Undergraduate level KIN 314 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Physical Education Teacher Ed

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**KIN 425 - Advanced Athletic Training - 3**

Recognition and care of head, neck, spine, abdomen, and thorax injuries. The student will demonstrate current rehabilitation techniques including theory and usage of therapeutic modalities. Not for graduate credit.

**Prerequisites:** Undergraduate level KIN 315 Minimum Grade of D AND Undergraduate level KIN 350 Minimum Grade of D AND Undergraduate level KIN 370 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 426 - Cardiac & Pulmonary Rehabilita - 3**

FS

This course will cover theory and common practice for the assessment and treatment of patients with cardiac and pulmonary diseases.

**Prerequisites:** Undergraduate level KIN 350 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

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**KIN 440 - Psychological Perspectives of Kin - 2**

Psychological aspects of human behavior with emphasis on impact of motor performance and learning motor skills. Not for graduate credit.

**Prerequisites:** Undergraduate level PSYC 111 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the

following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

### **KIN 450 - Psycoso Aspts of Sprt/Phy Actv - 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.

**Restrictions:** Must be enrolled in one of the following Majors: Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology, Physical Education Teacher Ed

### **KIN 460 - Internship in Exercise Science - 1 to 9** FMS

Supervised 200 hour internship placement in professional settings appropriate for student career interests. This course may be repeatable up to 9 credit hours for clinical experience requirements for professional certifications. Not for graduate credit.

**Prerequisites:** 2.75 GPA (overall), Active American Red Cross CPR/First Aid/ AED training, and grade of C or better in KIN 416

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

### **KIN 464 - Senior Assignment Exercise Sci - 3** FMS

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.

**Prerequisites:** Undergraduate level KIN 416 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise

Bhvr., Kinesiology, Kinesiology

### **KIN 480 - Independent Study - 1 to 4** FS

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. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

### **KIN 490 - Selected Topics in Applied Kin - 1 to 4**

Theory and practice in topical areas such as exercise physiology; biomechanics; sport psychology; exercise psychology; skill teaching; and fitness assessment. May be repeated to a maximum of 6 hours provided no topics are repeated.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology

### **KIN 496 - Adv Conc Tech in St and Cond - 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.

**Prerequisites:** Undergraduate level KIN 319 Minimum Grade of D AND Undergraduate level KIN 350 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kinesiology

### **KIN 499 - Individual Research - 1 to 4** S

Selection, investigation, and writing of research paper under supervision of instructor. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Exercise Science, Exercise and Wellness, Kin. - Exercise Physiology, Kinesiology, Kin. -



Pedagogy/Administration, Kin. - Sport and Exercise  
Bhvr., Kinesiology, Kinesiology

## Latin (LAT)

### **LAT 101 - Introduction to Latin - 4**

F

Grammar and vocabulary of classical Latin within context of Roman culture. Reading knowledge through texts adapted from classical authors. Lab included.

**Attributes:** FL, HUM, SKFL

### **LAT 102 - Introduction to Latin - 4**

S

Continuation of LAT 101. Lab included.

**Attributes:** EGC, FL, HUM, IC, SKFL

**Prerequisites:** Undergraduate level LAT 101  
Minimum Grade of D

### **LAT 201 - Intermediate Latin - 4**

Basic principles. Reading selections from classical, medieval, and renaissance periods. Lab included.

**Attributes:** DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level LAT 102  
Minimum Grade of D

### **LAT 202 - Intermediate Latin - 4**

Continuation of LAT 201. Lab included. [IAI course no. H1 900]

**Attributes:** DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level LAT 102  
Minimum Grade of D

### **LAT 499A - Read/Clasil/Medev'L/Renais Lat - 4**

Learning language through selections from classical, medieval, and renaissance Latin. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E, or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated

**Attributes:** DFAH, HUM

### **LAT 499B - Readings:Continuation of A - 4**

Continuation of A. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E, or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

### **LAT 499C - Readings:Continuation of B - 4**

Continuation of B. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E, or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

### **LAT 499D - Readings: 2Nd Year Lev - 4**

Second-year level. Content varies with instructor. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E, or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

### **LAT 499E - Readings:Second Year Level - 4**

Second-year level. Content varies with instructor. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E, or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

### **LAT 499F - Readings:Second Year Level - 4**

Second-year level. Content varies with instructor. LAT 499 A, LAT 499 B, and LAT 499 C must be taken in sequence and are prerequisite to LAT 499 D, LAT 499 E or LAT 499 F which may be taken out of sequence with consent of instructor. Individual segments may not be repeated for credit.

**Attributes:** DFAH, HUM

## Liberal Studies (LIBS)

### **LIBS 198 - Liberal Studies Internship I - 0** FMS

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.

### **LIBS 199 - Liberal Studies Cooperative Ed - 0** FMS

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

### **LIBS 298 - Liberal Studies Internship II - 0** M

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.

### **LIBS 299 - Liberal Stud Coop Educ - 0** FM

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

### **LIBS 300 - Student Colloquium - 1 to 3**

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.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

### **LIBS 397 - Vince Demuzio Gov Intern - 2**

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 56 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.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **LIBS 398 - Liberal Studies Internship III - 0**

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.

### **LIBS 399 - Liberal Studies/Coop Edu - 0 or 2** FM

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**LIBS 400 - Senior Project/Liberal Studies - 3** FMS

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Individually designed and supervised project, such as a student practicum, internship, integrative research paper, presentation, or creative undertaking. Not for graduate credit.

**Restrictions:** Must be enrolled in one of the following Majors: Liberal Studies, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### Mathematics (MATH)

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**MATH 112A - Math/Elem/Tch:Numb/Sense/Algeb - 3** FS

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These courses are designed to meet state certification standards for elementary teachers. Number sense and algebra.

**Attributes:** BPS, INSM

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**MATH 112B - Math/Elem/Teach:Prob/Stat/Geom - 3** FS

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These courses are designed to meet state certification standards for elementary teachers. Probability, statistics, and geometry.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level MATH 112A Minimum Grade of C (concurrency allowed)

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**MATH 112C - Math for Elementary Teaching - 3**

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One of three courses designed to meet state certification standards for elementary teachers. College algebra skills essential for elementary teachers.

**Attributes:** BPS

**Prerequisites:** ALEKS - PT6 student attribute with ALEKS score (UL01) 46 or higher or MATH 112A and MATH 112b with grade of C or higher. OR MATH 112a and 112b with a grade of C or better or ACT (A02) Math 21+ or satisfactory placement test score or SAT (S15) of 26 or higher; or Accuplacer

(UA03) of 237 or higher; or Compass (UC41) of 46 or higher; or ALEKS (UL01) of 46 or higher.

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**MATH 120 - College Algebra - 3** FMS

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Cartesian coordinates; graphing; lines; parabolas; functions; inverses; roots of polynomials; rational functions and inequalities; linear systems; matrices; and determinants.

**Attributes:** BPS, DNSM, INSM

**Prerequisites:** ALEKS rule - PT6 student attribute and UL01 of 46 or higher; or AD 075 with C or higher; or AD 095 with C or higher; or A02 of 23 or higher; or S15 of 28 or higher; or UA03 of 250 or higher; or UC41 of 66 or higher.

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**MATH 120E - Enhanced College Algebra - 3**

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Cartesian coordinates, graphing, lines, parabolas, functions, inverses, roots of polynomials, rational functions and inequalities, linear systems, matrices, and determinants

**Attributes:** BPS, DNSM, INSM

**Prerequisites:** MATH 120 Prereqs for Pilot Sections 011 and 016 ACT Math Subscore (A02) of 21 or 22 OR Compass Algebra Score (UC41) of 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, or 66; OR ACCUPLACER score (UA03) 237-249; OR ALEKS rule - PT6 student attribute and UL01 of 30 or higher.

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**MATH 125 - Precalc Mathema/Trigonometry - 3** FMS

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Exponential and logarithmic functions; trigonometric functions and their applications; inverse trigonometric functions; trigonometric identities and equations; laws of sines and cosines; binomial theorem; and introduction to partial fractions.

**Attributes:** BPS, DNSM, INSM

**Prerequisites:** ALEKS Rule - UL01 of 61 or higher or MATH 120 with C or higher; or UL01 of 61 or higher; or MATH 120 with C or higher; or A02 of 26 or higher; or S15 of 30.5 or higher; or UA03 of 263 or higher; or UC42 of 46 or higher.

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**MATH 145 - Calculus for the Life Sciences - 5** FMS

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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. ALEKS PPL placement score of 76 or above or MATH 125 with a C or better.

**Attributes:** BPS

**Prerequisites:** ALEKS Rule - PT6 student attribute and UL01 of 76 or higher or MATH 125 with C or higher; or UL01 of 76 or higher; or MATH 125 with C or higher; or A02 of 28 or higher; or S15 of 32.5 or higher; or UA03 of 276 or higher; or UC43 of 46 or higher.

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### MATH 150 - Calculus I - 5 FMS

Fundamental concepts of calculus: limits, continuity, and derivatives. Mean Value Theorem of Calculus, integration techniques, and applications.

**Attributes:** BPS, DNSM, INSM

**Prerequisites:** ALEKS rule - PT6 student attribute and UL01 of 76 or higher or MATH 125 with grade of C; or UL01 of 76 or above or MATH 125 with grade of C or A02 of 28 or higher or S15 of 32.5 or higher or UA03 of 276 or higher or UC43 of 46 or higher.

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### MATH 152 - Calculus II - 5 FMS

Applications of integration; techniques of integration; improper integrals; polar coordinates; infinite sequences and series; and Taylor's theorem.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level MATH 150  
Minimum Grade of C

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### MATH 223 - Logic/Mathematical Reasoning - 4 FS

Concepts and techniques essential to advanced mathematics; logic, methods of proof, sets, relations, induction, functions, cardinality, combinatorics, and graph theory.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 150  
Minimum Grade of C

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### MATH 224 - Discrete Mathematics - 3 FMS

Mathematical concepts and techniques essential to computer science: logic; sets; algorithms; methods of proof; induction and recursion; simple counting techniques; and graph theory. Does not count toward a major in mathematics.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level CS 140  
Minimum Grade of C

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### MATH 250 - Calculus III - 4 FMS

Vectors; dot and cross products; lines and planes in space; and vector-valued functions. Partial derivatives, gradient, extrema, and multiple integrals. Theorems of Green, Stokes, and Gauss. IAI Number: M1 900.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level MATH 152  
Minimum Grade of C

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### MATH 300 - Hist/Math/Antiquity/Descartes - 3

The development of mathematics from antiquity through the development of analytic geometry. Does not count toward a degree in mathematics.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 125  
Minimum Grade of C OR Undergraduate level MATH 150  
Minimum Grade of C

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### MATH 305 - Differential Equations I - 3 FMS

First order ordinary differential equations, linear ordinary, differential equations of higher order, systems of first order linear equations, and applications.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 250  
Minimum Grade of C AND (Undergraduate level PHYS 151  
Minimum Grade of C OR Undergraduate level PHYS 141  
Minimum Grade of C OR Undergraduate level PHYS 211A  
Minimum Grade of C OR Undergraduate level ME 492  
Minimum Grade of C)

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### MATH 310 - The Teach o/Mid Sch Math - 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 towards a degree in mathematics.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 112A Minimum Grade of C AND Undergraduate level MATH 112B Minimum Grade of C

### **MATH 311 - The Teaching/Secondary Math 1 - 3**

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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.

**Attributes:** DNSM, PS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **MATH 315 - Number Theory - 3**

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Divisibility, primes, numerical functions, congruences, introduction to coding theory, continued fractions, and rational approximations. Does not count toward a degree in mathematics.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 125 Minimum Grade of C

### **MATH 320 - Intro to Algebraic Structures - 3**

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Introduction to group theory. Groups; subgroups; cyclic groups; cosets and Lagrange's theorem; homomorphisms; and factor groups.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C

### **MATH 321 - Linear Algebra I - 3**

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Systems of linear equations matrices and determinants; vector spaces and linear transformations. Eigenvalues, eigenvectors, and diagonalization of a symmetric matrix.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 152 Minimum Grade of C

### **MATH 340 - Theory of Interest - 3**

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Measures of interest; annuities; yield rates; amortization schedules and sinking funds; economic rationale for interest; and stochastic approaches to interest.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 152 Minimum Grade of C

### **MATH 350 - Introduction to Analysis - 4**

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Real numbers. Topology on the real line. Sequences of real numbers; limits of functions, continuity of functions; differentiation.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C

### **MATH 355 - Engineering Mathematics - 5**

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Linear algebra: Gaussian elimination, linear independence, vector spaces, eigenvalues; discrete mathematics including: combinations and graph theory; and complex analysis (differentiation, integration, and series).

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 305 Minimum Grade of C

### **MATH 400 - Development/Modern Mathematics - 3**

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The development of mathematics since the discovery of calculus.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level MATH 223 Minimum Grade of C

### **MATH 411 - Teaching Secondary Math 2 - 3**

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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.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 311  
Minimum Grade of C

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**MATH 416A - Math Topic for Teachers:Analy  
- 1 to 3**

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Analysis. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416B - Math Topic For  
Teachers:Algeb - 1 to 3**

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Algebra. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416C - Math/Topic/Teach:Number  
Theo - 1 to 3**

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Number theory. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416D -  
Math/Topic/Teachs:Probab/Stat - 1 to 3**

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Probability and statistics. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416E - Math/Topic/Teachs:Math  
Concp - 1 to 3**

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Mathematical concepts. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416F -  
Math/Topic/Teachers:Geometry - 1 to 3**

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Geometry. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416G - Math/Topic/Teachs:Hist of  
Math - 1 to 3**

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History of Mathematics. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416H - Math/Topic/Teach:Applied  
Math - 1 to 3**

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Applied mathematics. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 416I - Math/Topic/Teachs:Logic/Found  
- 1 to 3**

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Logic and foundations. May be repeated to a maximum of 3 hours so long as no topic is repeated. May not count toward a concentration or minor in mathematics. Requires consent of instructor.

**Attributes:** PS

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**MATH 420 - Abstract Algebra - 3**

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Rings, fields, integral domains, homomorphisms, factor rings, rings of polynomials, prime ideals, maximal ideals, extension fields, and vector spaces.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 320  
Minimum Grade of C

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**MATH 421 - Linear Algebra II - 3**

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F

Advanced study of vector spaces: Cayley-Hamilton Theorem, minimal and characteristic polynomials, Eigen spaces, canonical forms, Lagrange-Sylvester Theorem, and applications.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C

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### **MATH 423 - Combinatorics/Graph Theory - 3**

Methods of solving problems which are discrete in nature. Counting combinatorial reasoning and modeling; generating functions; and recurrence relations. Graphs: definitions, examples, basic properties, applications, and algorithms. Some knowledge of programming is recommended.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of D

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### **MATH 430 - A Geometric Intro to Topology - 3**

Topological spaces and equivalence through the study of knots, links, surfaces, 3-manifolds and other selected topics.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 350 Minimum Grade of C

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### **MATH 435 - Found/Euclid/NonEuclid Geomety - 3**

Points; lines; planes; space; separations; congruence; parallelism and similarity; non-Euclidean geometries; and independence of the parallel axiom. Riemannian and Bolyai-Lobachevskian geometries.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C AND Undergraduate level MATH 320 Minimum Grade of C OR Undergraduate level MATH 350 Minimum Grade of C

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### **MATH 437 - Differential Geometry - 3**

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.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C

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### **MATH 450 - Real Analysis I - 3**

Integration; infinite series, sequences and series of functions and their properties.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 350 Minimum Grade of C

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### **MATH 451 - Intro to Complex Analysis - 3**

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.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 350 Minimum Grade of C

---

### **MATH 462 - Engineering Numerical Analysis - 3**

Polynomial interpolation and approximations; numerical integration; differentiation; and direct and iterative methods for linear systems. Numerical solutions for ODE's and PDE's. Matlab programming required. Not for Math majors.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C AND (Undergraduate level CS 140 Minimum Grade of C OR Undergraduate level CS 145 Minimum Grade of C)

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### **MATH 464 - Partial Differential Equations - 3**

Partial differential equations, heat equation, wave equation, Laplace's equation, Fourier series, Fourier transform, method of separations of variable.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C

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### **MATH 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.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C AND Undergraduate level CS 145 Minimum Grade of C

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### **MATH 466 - Numerical Linear Algebra/Appl - 3**

Direct and iterative methods for linear systems; approximation of eigenvalues; solution of nonlinear systems; numerical solution of ODE and PDE boundary value problems; and function approximation.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C AND (Undergraduate level CS 140 Minimum Grade of C OR Undergraduate level CS 145 Minimum Grade of C)

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### **MATH 490A - Topics in Mathematics - 1 to 3**

490a-h, 1-3 each Topics in Mathematic — 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.

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### **MATH 490B - Topics in Mathematics - 1 to 3**

490a-h, 1-3 each Topics in Mathematic — 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.

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### **MATH 490C - Topics in Mathematics - 1 to 3**

490a-h, 1-3 each Topics in Mathematic — 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.

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### **MATH 490D - Topics in Mathematics - 1 to 3**

490a-h, 1-3 each Topics in Mathematic — 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.

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### **MATH 490E - Topics in Mathematics - 1 to 3**

490a-h, 1-3 each Topics in Mathematic — 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.



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**MATH 490F - Topics in Mathematics - 1 to 3**

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490a-h, 1-3 each Topics in Mathematic — 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.

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**MATH 490G - Topics in Mathematics - 1 to 3**

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490a-h, 1-3 each Topics in Mathematic — 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.

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**MATH 490H - Topics in Mathematics - 1 to 3**

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490a-h, 1-3 each Topics in Mathematic — 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.

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**MATH 495A - Independent Study: Algebra - 1 to 3**

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Research and reading in specified area of interest. Algebra. 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 neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

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**MATH 495B - Independent Study:Geometry - 1 to 3**

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Research and reading in specified area of interest. Geometry. 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 neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

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**MATH 495C - Independent Study Analysis - 1 to 3**

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Research and reading in specified area of interest. 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 neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

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**MATH 495D - Indep Study Math Education - 1 to 3**

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Research and reading in specified area of interest. Mathematics education. 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 neither a single segment nor more than 6 in one semester. Requires written consent of adviser.

**Attributes:** DNSM, PS

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**MATH 495E - Indep Study Logic and Found - 1 to 3**

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Research and reading in specified area of interest. Logic & foundations. May be repeated to a max of 9 hours so long as no topic is repeated and not more than 3 hours are accumulated in neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

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**MATH 495F - Independent Study: Topology - 1 to 3**

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Research and reading in specified area of interest. Topology. 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 neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

### **MATH 495G - Indep Study Numerical Analysis - 1 to 3**

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Research and reading in specified area of interest. Numerical analysis. May be repeated to a max of 9 hours so long as no topic is repeated and not more than 3 hours are accumulated in neither a single segment nor more than 6 in one semester. Requires written consent of adviser and instructor.

**Attributes:** DNSM, PS

### **MATH 498 - Senior Seminar - 2**

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Mathematical modeling. The writing and presenting of mathematical ideas. Preparation for senior project. Prerequisite: completion of mathematics core.

**Prerequisites:** Undergraduate level MATH 150 Minimum Grade of C AND Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C AND Undergraduate level MATH 223 Minimum Grade of C AND Undergraduate level MATH 321 Minimum Grade of C AND Undergraduate level MATH 350 Minimum Grade of C AND (Undergraduate level CS 140 Minimum Grade of C OR Undergraduate level CS 145 Minimum Grade of C) AND (Undergraduate level PHYS 211A Minimum Grade of C OR Undergraduate level PHYS 151 Minimum Grade of C) AND (Undergraduate level PHYS 212A Minimum Grade of C OR Undergraduate level PHYS 151L Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Applied Math, Actuarial Science, Mathematical Studies, Mathematical Sciences, Statistics

### **MATH 499 - Senior Project - 2**

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Directed study toward completing the senior assignment. Student completes a written project and gives an oral presentation.

**Prerequisites:** Undergraduate level MATH 498 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or

Concentration): Applied Math, Actuarial Science, Mathematical Studies, Mathematical Sciences, Statistics

## **Mass Communications (MC)**

### **MC 201 - Mass Media in Society - 3**

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Analysis of mass media focusing on technological, economic, governmental, and societal impact.

**Attributes:** DFAH, HUM

### **MC 202 - Writing for the Media - 3**

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First experiences reporting, writing and rewriting news: electronic, promotional, advertising and public relations. Includes potential publication in SIUE's campus newspaper, The Alestle.

**Attributes:** DFAH, HUM

### **MC 204 - Intro to Audio and Video Prod - 3**

---

Planning and realization of audio and video productions; studio techniques; audio and video non-linear editing. Emphasis on composition, aesthetics and storytelling.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202 Minimum Grade of C

### **MC 301 - Advanced Audio Production - 3**

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Professional audio production for broadcast and across digital media platforms. Editing, script writing, technical skills and on-air performance.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204 Minimum Grade of D

### **MC 321 - Feature Writing - 3**

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Learn the essentials of writing and researching feature news pieces for evolving media platforms and contemporary outlets. Enterprise reporting stressed.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202

Minimum Grade of C

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**MC 322 - Copy Editing For The Media - 3** S

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Learning the professional tools needed to improve your media writing. Covers philosophies of writing and editing for multiple platforms. AP Style. Peer editing component.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202

Minimum Grade of C

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**MC 323 - Digital Publishing and Design - 3** FS

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Digital publication design and production of layouts for brochures, magazines and other media. Focuses on content-driven design through diverse methods of distribution.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202

Minimum Grade of C

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**MC 324 - Advanced News Reporting - 3** F

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Reporting for print and digital media about local and state government; politics law enforcement; courts; education; and, state and federal agencies. Investigative reporting.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202

Minimum Grade of C

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**MC 325 - Fundamentals of Advertising - 3** FMS

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Examines regulation, media, and methods including research, copywriting, and analysis of appeals and messages in advertising.

**Attributes:** DFAH, HUM

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**MC 326 - Advertis Copywriting & Design - 3** F

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Processes and practices in copywriting and design for print, broadcast and online advertising.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 323

Minimum Grade of C AND Undergraduate level MC 325 Minimum Grade of C

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**MC 327 - Writing Design Digital Media - 3** FS

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A hands-on course in social media and web design: Students create digital content and complete medium-sized web projects. Prerequisite: MC 204 with minimum grade of C or concurrent enrollment.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204

Minimum Grade of C (concurrency allowed)

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**MC 330 - Advanced Broadcast Writing - 3** FS

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Develop advanced skills for writing documentary films. Commercials, promos and other media platforms covered.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204

Minimum Grade of C

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**MC 331 - Electronic Media Performance - 3** S

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Extensive instruction and practice in electronic media performance. Students prepare projects for field and studio production and presentation. Research paper required.

**Attributes:** DFAH, HUM

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**MC 332 - Advanced News Production - 3** F

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Extensive practice in writing, producing and editing audio and video news for broadcast and digital media.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204

Minimum Grade of C

---

**MC 333 - Advanced Video Production - 3** FS

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Students produce professional-quality video segments for a weekly half-jour-new-magazine show.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204

Minimum Grade of C

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**MC 334 - Commercial Production - 3** F

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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.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204  
Minimum Grade of C AND Undergraduate level MC 325 Minimum Grade of C

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### MC 341 - Sports Journalism - 3

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Course provides overview of sports journalism and enhances students' writing, reporting, interviewing, and editing skills. Students learn how to write game, advance, and feature stories. Prerequisite: MC 202 with minimum grade of C or concurrent enrollment.

**Attributes:** HUM

**Prerequisites:** Undergraduate level MC 202  
Minimum Grade of C (concurrency allowed)

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### MC 342 - Digital Imagery - 3

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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.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202  
Minimum Grade of C

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### MC 351 - Women in Mass Communications - 3

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Early minority and white women journalists' struggles. Social, political, and technological contexts. Media as tools of social change. Historical patterns. Positive and negative male influences. Cross-listed with WMST 351.

**Attributes:** DFAH, EUSC, HUM, IGR

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### MC 353 - History of Mass Media - 3

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Development of American mass media. Struggle for freedom. Outstanding communicators and institutions. Social, political, and technological influences.

**Attributes:** DFAH, HUM

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### MC 389 - Media Planning - 3

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FM

Advanced media advertising planning strategies. Coverage of media buying; planning skills and tools; problem solving; and audience factors.

**Attributes:** DFAH, SS

**Prerequisites:** Undergraduate level MC 325  
Minimum Grade of D

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### MC 401 - Media Law and Policy - 3

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FMS

U.S. Constitution and federal and state law related to mass media. Congressional and public policy. Research paper/case study required.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### MC 402 - Media Management - 3

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S

Management responsibilities. Challenges and expectations in the professional environment, i.e., promotions, ratings, programming. Research paper required. Requires upper class standing in Mass Communications major or consent of instructor.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### MC 403 - Cultural Studies in Media - 3

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FMS

Use of critical theory to examine media's impact on society and culture. Attention paid to race, class, gender and sexuality. Prerequisite: upper-class standing. Not for graduate credit.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### MC 421 - Advertising Campaigns - 3

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Creation and production of advertising campaigns using print and electronic media.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 326

Minimum Grade of C OR Undergraduate level MC 334 Minimum Grade of C

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**MC 422 - Writing Corporate & Inst Markt - 3** <sup>S</sup>

Writing on behalf of corporations and other institutions for external and internal communication purposes. Study of corporate publications.

**Attributes:** HUM

**Prerequisites:** Undergraduate level MC 202 Minimum Grade of C

**Restrictions:** May not be enrolled as one of the following Majors: Mass Communications, Mass. Comm. - Media Literacy

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**MC 423A - Adv Tops in Writing: Dramatic - 3**

Advanced theory and practice of writing for the print and visual media. Dramatic writing.

**Attributes:** DFAH, HUM

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**MC 423B - Adv Tops in Writing For Media - 3**

Advanced theory and practice of writing for the print and visual media. Other topics.

**Attributes:** DFAH, HUM

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**MC 424 - Literary Journalism - 3**

Students develop skills in literary non-fiction writing. Includes reading works by both historically important and contemporary writers in this genre.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 202 Minimum Grade of C

---

**MC 431 - Freelance Media Production - 3** <sup>S</sup>

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.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204 Minimum Grade of C

---

**MC 433 - Adv Video Directing & Produc - 3** <sup>FS</sup>

Advanced theory and practice in television directing

and producing. Students work as senior producers for the cable program SIUE Global Village, plus other assignments.

**Attributes:** HUM

**Prerequisites:** Undergraduate level MC 333 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Classifications: SIU Coop Grad Pgms - Doctoral, Doctoral Candidate, Master's Candidate, Specialist Candidate, Unclassified Graduate, Post Baccalaureate Certificate, Post Master's Certificate, Senior with Degree, Senior, Must be enrolled in one of the following Levels: Graduate, Undergraduate

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**MC 440 - Visual Media Analysis - 3** <sup>FS</sup>

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.

**Attributes:** DFAH, HUM

---

**MC 441 - Adv Write Design Digital Media - 3** <sup>F</sup>

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.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 327 Minimum Grade of C

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**MC 442 - Special Studies in Visual Comm - 3**

Special independent study in visual communications combining theory and practice. Not for graduate credit.

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**MC 443 - Narrative Media Production - 3**

Processes and practices for short narrative production, including short films, TV pilots, and web series.

**Prerequisites:** Undergraduate level MC 204 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the

following Fields of Study (Major, Minor, or Concentration): Mass Communications, Mass. Comm. - Media Literacy

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### MC 447 - Photojournalism - 3

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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.

**Attributes:** HUM

**Prerequisites:** Undergraduate level MC 342  
Minimum Grade of C

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### MC 449 - Media Psychology - 3

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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.

**Attributes:** BSS, DFAH

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore, Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### MC 451 - Research Methods in Mass Media - 3

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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.

**Attributes:** DFAH, SS

**Restrictions:** Must be enrolled in one of the following Majors: Mass Communications, Mass. Comm. - Media Literacy, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### MC 452 - New Media and Technology - 3

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Technological changes in the mass media. New media forms; audience fragmentation; and economic, regulatory, and social issues. Patterns of adoption and diffusion.

**Attributes:** DFAH, HUM

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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### MC 453 - Transnational Media - 3

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Focus on media ownership, content flow, cultural values, political power, and technological impact in history industrialization, economics and current processes of globalization.

**Attributes:** BSS, DFAH, EGC, EUSC, II

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### MC 454 - Documentary Media Production - 3

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Evolution of documentary filmmaking; emphasis on student production of original documentary films.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 204  
Minimum Grade of C AND (Undergraduate level MC 332 Minimum Grade of C OR Undergraduate level MC 333 Minimum Grade of C OR Undergraduate level MC 334 Minimum Grade of C OR Undergraduate level MC 431 Minimum Grade of C)

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### MC 456 - Identity and Emerging Media - 3

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Students explore how people construct identities on various emerging media—Twitter, Snapchat, Instagram and YouTube. Students read academic sources and engage in podcast, videocast or animation projects.

**Attributes:** BHUM, EUSC

**Prerequisites:** ENG 101 or 102 with grade of C or better or admission to the Media Studies graduate program.

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### MC 471 - Special Topics in Mass Media - 3

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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.

**Attributes:** DFAH, HUM

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### MC 475 - Adv Mobile Media Design - 3

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A project-based course which introduces students to concepts and techniques in designing advanced mobile-based interactive multimedia applications.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level MC 441  
Minimum Grade of C

### MC 481 - Internship/Senior Portfolio - 3

FMS

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. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Mass Communications, Mass. Comm. - Media Literacy, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### MC 482 - Internship - 3

S

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. Requires consent of instructor.

**Restrictions:** Must be enrolled in one of the following Majors: Mass Communications, Mass. Comm. - Media Literacy, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### MC 491 - Advanced Practices - 3

Independent study in areas which student has completed all formal course work. Included are studies in news, advertising, writing, announcing, and production-direction. May be repeated to a maximum of 6 hours. Requires consent of instructor.

### MC 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. Requires consent of instructor.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### MC 499 - Independent Study - 1 to 3

Special projects, research, and independent study under guidance of faculty supervisor. Not for graduate credit. Requires consent of instructor.

## Mechanical Engineering (ME)

### ME 192 - Special Topics - 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 minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level MATH 150 Minimum Grade of C (concurrency allowed)

### ME 198 - Mech Engr Work Experience I - 0

FMS

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### ME 199 - Mech Engr Co-Op Educ I - 0

FMS

Supervised work experience with agency, firm or organization which uses engineers. First work period of five-year academic/work experience program. Requires consent of engineering co-op adviser.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### ME 244 - Engineering Mechanics - 4

Static equilibrium conditions for external and internal force and moment systems. Dynamics of rigid-body planar motion. Prerequisite: PHYS 211A. Same as CE 244.

**Prerequisites:** Undergraduate level PHYS 211A Minimum Grade of D OR Undergraduate level PHYS 151 Minimum Grade of D

### ME 262 - Dynamics - 3

FMS

Differentiation and rotation of vector valued functions; dynamics of particles; Newton's laws,

momentum and energy; relative motion; and dynamics of rigid body planar motion. Prerequisite: CE 240.

**Prerequisites:** Undergraduate level CE 240  
Minimum Grade of C

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**ME 298 - Mechanical Engr Work Exp II - 0** FMS

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 198.

**Attributes:** COOP

**Prerequisites:** Undergraduate level ME 198  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**ME 299 - Mech Engr Co-Op Educ II - 0** FMS

Supervised work experience with agency, firm or organization which uses engineers. Second work period of five-year academic/work experience program. Student receives grade of satisfactory or unsatisfactory. Prerequisite: consent of engineering co-op adviser.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

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**ME 310 - Thermodynamics I - 3** FM

Classical thermodynamics: properties of pure substance; ideal gas law; work and heat; first and second laws; entropy; Rankine cycle; and introduction to heat transfer. Requires Junior standing in Engineering. Prerequisite: ME 262 and MATH 250 with minimum grade of C (concurrent enrollment allowed in ME 262).

**Prerequisites:** (Undergraduate level ME 262  
Minimum Grade of C (concurrency allowed) AND  
Undergraduate level MATH 250 Minimum Grade of C)

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**ME 312 - Thermodynamics II - 3** FS

Some power and refrigeration cycles, mixtures and

solutions; chemical reactions and chemical equilibrium; irreversibility and availability; thermodynamic relations. Prerequisite: ME 310.

**Prerequisites:** Undergraduate level ME 310  
Minimum Grade of C

---

**ME 315 - Fluid Mechanics - 3** FS

Basic principles of conservation of mass, momentum and energy in fluid systems; dimensional analysis; compressible and incompressible flow; and boundary layers. Prerequisite: Upper-division standing or Civil Engineering, CE 242 with minimum grade of D or concurrent enrollment, or consent of instructor. Same as CE 315.

**Prerequisites:** Undergraduate level CE 242  
Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Civil Engineering, Mechanical Engineering, Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**ME 350 - Mechanisms - 3** FM

Kinematic analysis and synthesis of four bar linkages, cams, gears and other mechanisms; D'Alembert principle, dynamic force analysis, balancing, and gyroscopic effects. Prerequisites: ME 262 and ME 354 with minimum grade of C (concurrent enrollment allowed in ME 354).

**Prerequisites:** Undergraduate level ME 262  
Minimum Grade of C AND Undergraduate level ME 354 Minimum Grade of C (concurrency allowed)

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**ME 354 - Numerical Simulation - 1** FS

Simulation software; numerical solution of algebraic and differential equations; and simulation. Prerequisite: MATH 305 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level MATH 305  
Minimum Grade of C (concurrency allowed)

---

**ME 356 - Dynamical Systems Modeling - 3** FS

Laplace transformation; transfer functions. Modeling



of dynamic systems involving mechanical, electrical, fluid and thermal components. State space description. Computer simulations. Frequency response and bode plot. Prerequisite: ECE 210 and MATH 305 with a D or better and ME 262 with a C or better and ME 354 with a C or better or concurrent enrollment.

**Prerequisites:** Undergraduate level ME 354 Minimum Grade of C (concurrency allowed) AND Undergraduate level ME 262 Minimum Grade of C AND Undergraduate level ECE 210 Minimum Grade of D AND Undergraduate level MATH 305 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ME 356L - Dynamical Systems Laboratory - 1** FS

Experimental methods. Sensors and transducers. Instrumentation. Dynamic response. Signal processing. Prerequisite: ME 356 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level ME 356 Minimum Grade of C (concurrency allowed)

### **ME 370 - Materials Engineering - 3** FS

Atomic, molecular and crystalline structures; effect of micro- and macro-structure on properties; equilibrium and non-equilibrium multiphase systems; and metallic, ceramic and polymeric materials. Prerequisites: CE 242 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level CE 242 Minimum Grade of C (concurrency allowed)

### **ME 380 - Design of Machine Elements - 3** FS

Stress and deformation; buckling; failure theories for static and fatigue loading; design of gears, shafts, and other. Prerequisites: CE 242 and ME 354 with minimum grade of C (concurrent enrollment allowed in ME 354).

**Prerequisites:** Undergraduate level ME 354 Minimum Grade of C (concurrency allowed) AND Undergraduate level CE 242 Minimum Grade of C

### **ME 380L - Stress Laboratory - 1** MS

Measurement of stress and strain. Stress concentration. Combined loading. Material strength and failure. Prerequisite: ME 380 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level ME 380 Minimum Grade of C (concurrency allowed)

### **ME 398 - Mechanical Engr Work Exp III - 0** MS

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. Prerequisites: ME 298.

**Attributes:** COOP

**Prerequisites:** Undergraduate level ME 298 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **ME 399 - Mech Engr Co-Op Educ III - 0** FMS

Supervised work experience with agency, firm or organization which uses engineers. Third work period of five-year academic/work experience program. Requires consent of engineering co-op adviser.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **ME 410 - Heat Transfer - 3** FS

Steady and unsteady conduction, transient numerical method; principles of convection; and empirical relations for forced-convection heat transfer, radiation heat transfer, and heat exchangers. Design project. Not for graduate credit. Prerequisites: ME 310, ME 315.

**Prerequisites:** Undergraduate level ME 310 Minimum Grade of C AND Undergraduate level ME 315 Minimum Grade of C

### **ME 410L - Thermal Science Lab - 1** FS

Applications of thermodynamics and fluid mechanics

laws; pipe flow measurements, Bernoulli experiment, wind tunnel measurements, and refrigeration cycle; compressor and pump experiments; and steam generator. Prerequisite: ME 410 with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level ME 410  
Minimum Grade of C (concurrency allowed)

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### **ME 412 - Energy Conversion Systems - 3**

Theory. Analysis and design of static and dynamic energy conversion devices including thermoelectrics, magnetohydrodynamics, electrohydrodynamics, fuel cells. Not for graduate credit. Prerequisites: ME 312, ME 315.

**Prerequisites:** Undergraduate level ME 312  
Minimum Grade of D AND Undergraduate level ME 315  
Minimum Grade of D

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### **ME 414 - Gas Dynamics - 3**

F

Basic equations of compressible flow, and isentropic flow of perfect gas; normal shock waves, and oblique shock waves; flow with friction and heat loss; and applications. Prerequisites: ME 315 and ME 310.

**Prerequisites:** ME 315 and 310 with C or better Or  
Graduate Status (GM)

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### **ME 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.

**Prerequisites:** Undergraduate level ME 410  
Minimum Grade of C

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### **ME 417 - Heating, Vent. & AC (HVAC) - 3**

M

Air-conditioning systems, psychrometrics, indoor air quality, heating and cooling loads, pumps and fans, duct design, refrigeration.

**Prerequisites:** ME 410 with grade of C or higher, or concurrent enrollment, or graduate standing (GM).

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### **ME 418 - Internal Combustion Engines - 3**

S

Thermodynamics of internal combustion engine cycles; gasoline and diesel engines; engine design considerations; engine heat release; fuel-air and combustion; and valves and heat losses.

Prerequisites: ME 410 and ME 312 with minimum grade of C (concurrent enrollment allowed in ME 410).

**Prerequisites:** Undergraduate level ME 410  
Minimum Grade of C (concurrency allowed) AND  
Undergraduate level ME 312  
Minimum Grade of C

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### **ME 419 - Gas Turbines - 3**

M

Quasi-one-dimensional compressible flow; ideal and non-ideal gas turbine cycles, gas turbines for power, turbojet, and turbofan; component performance; engine off-design performance; and engine design considerations.

**Prerequisites:** Undergraduate level ME 312  
Minimum Grade of C AND Undergraduate level ME 315  
Minimum Grade of C

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### **ME 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.

**Prerequisites:** Undergraduate level ME 410  
Minimum Grade of C (concurrency allowed)

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### **ME 432 - Vehicle Dynamics - 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 C or better; or  
Graduate Status (GM)

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### **ME 433 - Fuzzy Logic and Applications - 3**

Fundamentals of fuzzy sets, basic operations, fuzzy arithmetic, and fuzzy systems. Examples of applications in various fields of engineering and science. Requires consent of instructor. Same as ECE 433.

### **ME 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. Requires consent of department chair or program director.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### **ME 442 - MEMS - 3**

Fundamental science, design, and fabrication of MEMS and microsystems, scaling laws, MEMS flexures, capacitive, piezoelectric, piezoresistive, and thermal sensing and actuation.

**Prerequisites:** Completion of ME 315, 356, 370, 380 with grades of C or better or Graduate standing.

### **ME 450 - Automatic Control - 3**

S

Modeling of dynamical systems, linearizations, stability, and feedback control; Routh-Hurwitz Criteria, time domain and frequency domain response; Root Locus; and feedback compensator design.

**Prerequisites:** ME 356 with a C or better; or Graduate Status (GM)

### **ME 452 - Vibrations - 3**

M

Vibration of single and multi-degree of freedom systems; natural frequencies and modes; and vibration isolation. Structural response to ground excitation. Prerequisites: ME 262 CE 242, and MATH 305 with a C or better or graduate standing.

**Prerequisites:** ME 262, MATH 305, CE 242 with C or better in all; or Graduate Status (GM)

### **ME 454 - Robotics-Dynamics and Control - 3**

F

(Same as ECE 467 and MRE 454) Robotics, robot kinematics and inverse kinematics, trajectory planning, differential motion and virtual work principle, dynamics and control. Prerequisite: Consent of instructor.

### **ME 456 - Dynamic Systems Modeling - 0**

Laplace transformation; transfer functions. Modeling of dynamic systems involving mechanical, electrical, fluid and thermal components. State space description. Computer simulations. Frequency response and bode plot. Approved for graduate credit 5/22/98. Prerequisites: ECE 210, ME 262, ME 315, and MATH 305.

### **ME 458 - Mechatronics - 3**

Dynamics response; fundamentals of electronic and logic circuits; sensors and instrumentation for strains, movements and fluid flow; actuators and power transmission devices; and feedback control. Two hours lecture and one laboratory session per week. Prerequisites: ME 356 with a C or better or graduate standing.

**Prerequisites:** ME 356 with a grade of C or better; or Graduate Status (GM)

### **ME 460 - Nondestructive Eval Methods - 3**

Nondestructive evaluations methods for engineering materials. Ultrasonic inspection for defect detection, weld inspection plus methods of dye penetrate. Acoustic emissions and eddy currents are studied. C/I with CE 461.

### **ME 466 - Digital Control - 3**

Topics include finite difference equations, z-transforms, and state variable representation; and analysis and synthesis of linear sampled-data control systems using classical and modern control theory.

**Prerequisites:** ME 450 or ECE 365 with C or better; or Graduate Status (GM)

### **ME 470 - Stress Analysis and Design - 3**

F

Three dimensional torsion and bending; stress and strain transformations; yield criteria and plasticity theory; finite element method; and case studies and engineering design. Prerequisites: ME 370 with a C or better or concurrent enrollment and CE 242 with a C or better, or graduate standing.

**Prerequisites:** ME 370 with C or better with

Concurrency and CE 242 with C or better; or Graduate Status (GM)

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### **ME 472 - Engineering Fracture Mechanics - 3**

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Mechanisms of fracture and crack growth; the elastic and plastic crack-tip stress fields; and case studies and design analysis. Not for graduate credit. Prerequisites: 370, CE 242.

**Prerequisites:** Undergraduate level ME 370 Minimum Grade of C AND Undergraduate level CE 242 Minimum Grade of C

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### **ME 474 - Mech of Composite Materials - 3**

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Micro- and macro-mechanical behaviors of lamina; micro- and macro-mechanical behaviors of laminate and laminated plates; and case studies and design. Not for graduate credit. Prerequisite: ME 370, CE 242.

**Prerequisites:** Undergraduate level ME 370 Minimum Grade of C AND Undergraduate level CE 242 Minimum Grade of C

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### **ME 482 - Mechanical Engr Design I - 2** FS

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Problem solving methodology used in design, analysis and synthesis of mechanical and thermal systems; and exploring, selecting, documenting, writing and presenting a project proposal. Not for Graduate Credit. Prerequisites: ME 350, 370, and ME 380 with minimum grade of C.

**Prerequisites:** Undergraduate level ME 350 Minimum Grade of C AND Undergraduate level ME 370 Minimum Grade of C AND Undergraduate level ME 380 Minimum Grade of C

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### **ME 484 - Mechanical Engr Design II - 2** FS

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Application of engineering principles and sciences to the design mechanical systems or processes; production working prototypes or simulated models; and writing and presenting final project reports. Not For Graduate Credit. Prerequisite: ME 482

**Prerequisites:** Undergraduate level ME 482 Minimum Grade of C

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### **ME 492 - Topics in Mech Engineering - 1 to 6** MS

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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. Requires consent of department chair or program director.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### **Management (MGMT)**

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### **MGMT 330 - Undrstndg the Business Environ - 3** FMS

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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.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Levels: Undergraduate

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### **MGMT 331 - Managing Group Projects - 3** FMS

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This course is strongly geared toward skill development and acquiring task and interpersonal skills to work effectively in a group to accomplish stated goals.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys, Must be enrolled in one of the following Levels: Undergraduate

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### **MGMT 340 - Principles of Management - 3**

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Importance of management to success of organizations; history of management; organizations as systems; decision-making; planning systems; organizational structure/ design; control systems;

and managing human resources.

**Prerequisites:** Undergraduate level ACCT 200  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MGMT 341 - Org Behavior & Interper Skills - 3**

Knowledge and skill in application of behavioral science concepts to interpersonal; small group; intergroup; organizational-system issues. 9/13/00 course updated to change dept. of record.

**Attributes:** EUSC, IGR

**Prerequisites:** Undergraduate level MGMT 340  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MGMT 430 - Human Resource Management - 3** FMS

Theory, practice and trends in effective utilization of human resources in organizations.

**Prerequisites:** Undergraduate level MGMT 340  
Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MGMT 431 - Recruiting, Selecting & Hiri - 3** F

Principles, practices and issues relevant to staffing work organizations. Topics include employee recruitment approaches; selection procedure development; work force headcount planning; and equal employment regulations.

**Prerequisites:** Undergraduate level MGMT 430  
Minimum Grade of D

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### **MGMT 432 - Traing & Developing Employees - 3** S

Principles, practices and factors that contribute to employees' job competence, performance, growth, and contribution to organizational performance. Topics include training assessment, development, and delivery.

**Prerequisites:** Undergraduate level MGMT 430  
Minimum Grade of D

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### **MGMT 433 - Performance Mang Comp - 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:** Undergraduate level MGMT 430  
Minimum Grade of D

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### **MGMT 441 - Strategic Management - 3** FMS

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. Student must complete BSBA core requirements or concurrent enrollment in final core requirements and consent of instructor.

**Prerequisites:** Completion of Business core MGKT 300, CMIS 342, PROD 315, FIN 320 and [(MGMT 330 and MGMT 331) or MGMT 341], Business Major, and 109 credit hours toward degree.

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### **MGMT 451 - Manag Org Change & 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:** Undergraduate level MGMT 341  
Minimum Grade of D OR (Undergraduate level

MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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**MGMT 461 - Managing in the Global Econ/ - 3** <sup>FS</sup>

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Management of business in other countries and in global economy. Interaction of political, cultural, social, legal, and economic forces in international business context.

**Attributes:** EGC, II

**Prerequisites:** Undergraduate level MGMT 341 Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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**MGMT 475 - Entrepre & Small Business Mgmt - 3** <sup>FS</sup>

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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:** Undergraduate level MGMT 341 Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

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**MGMT 476 - Entrepreneurship Practicum - 3** <sup>FS</sup>

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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. Prerequisite: MGMT 475; must be

admitted to School of Business; restricted to entrepreneurship concentration students.

**Attributes:** EGC

**Prerequisites:** Undergraduate level MGMT 475 Minimum Grade of D

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**MGMT 485 - Managing Quality & Performance - 3** <sup>S</sup>

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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:** Undergraduate level MGMT 341 Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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**MGMT 490 - Independent Study in Mgmt - 1 to 3**

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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. Requires consent of department chair or program director.

**Prerequisites:** Undergraduate level MGMT 341 Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

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**MGMT 495 - Special Topics in Management - 3**

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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. Requires consent of instructor.

**Attributes:** DEX

**Prerequisites:** Undergraduate level MGMT 341

Minimum Grade of D OR (Undergraduate level MGMT 330 Minimum Grade of D AND Undergraduate level MGMT 331 Minimum Grade of D)

## Marketing (MKTG)

### **MKTG 300 - Principles of Marketing - 3** FMS

Marketing in economic systems and society. External influences on marketing objectives, and outcomes. Marketing as functional area within organizations. Emphasis on product, pricing, distribution, and promotion decisions.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **MKTG 377 - Marketing Research - 3** FMS

Concepts necessary for understanding/performing applied marketing/business research. Research process: problem identification, design, sampling, data sources, and collection. Experimental designs, measurement, and statistical analysis.

**Prerequisites:** Undergraduate level MKTG 300 Minimum Grade of D AND Undergraduate level MS 251 Minimum Grade of D

### **MKTG 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: MKTG 300.

**Prerequisites:** Undergraduate level MKTG 300 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **MKTG 467 - Product and Brand Management - 3** M

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:** Undergraduate level MKTG 300 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **MKTG 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:** Undergraduate level MKTG 300 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **MKTG 470 - Sport Marketing - 3**

Sport marketing mix decisions from perspective of organizations that offer sports-related products and those that use sport to promote other products and services. Prerequisites: MKTG 300 or consent of instructor.

**Prerequisites:** Undergraduate level MKTG 300 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **MKTG 471 - Advertising Policy & Mgmt - 3** F

Strategic role of persuasive communication. Concepts and methods necessary to develop advertising programs. Advertising planning and budgeting in the context of achieving marketing objectives. Prerequisite: MKTG 300.

**Prerequisites:** Undergraduate level MKTG 300

Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MKTG 472 - Sales Policy & Management - 3** <sup>F</sup>

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. Prerequisite: MKTG 300.

**Prerequisites:** Undergraduate level MKTG 300  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MKTG 474 - Retail Policy & Mgmt - 3** <sup>S</sup>

Functions, organization, and management of retail enterprises. Impact of recent and contemporary forces. Systems for merchandising and promotional activities. Retailing careers and appropriate preparation.

**Prerequisites:** Undergraduate level MKTG 300  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MKTG 475 - Consumer Behavior - 3** <sup>FS</sup>

Consumer motivation, buying behavior, group influence, cultural forces, information processing, and product diffusion. Explanatory theories and product development.

**Prerequisites:** Undergraduate level MKTG 300  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business

Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MKTG 476 - International Marketing - 3** <sup>FS</sup>

Impact of tariffs, cultural/social restrictions, economic political environments, and legal restrictions. International distribution pricing; multinational product planning; communications decisions; and international marketing research.

**Attributes:** EGC, II

**Prerequisites:** Undergraduate level MKTG 300  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

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### **MKTG 478 - Intermed Marketing Research - 3**

Marketing research project planning and development. Emphasizes design and execution of custom research projects, data analysis, report preparation, and presentation.

**Prerequisites:** Undergraduate level MKTG 377  
Minimum Grade of D

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### **MKTG 479 - Special Topics in Marketing - 3** <sup>F</sup>

Contemporary issues/problems in marketing. Topic varies when offered. Examples: service marketing; industrial marketing; non-profit marketing; and other significant topics. May repeat as topic varies. Requires consent of instructor.

**Prerequisites:** Undergraduate level MKTG 300  
Minimum Grade of D

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### **MKTG 480 - Advanced Marketing Management - 3** <sup>FS</sup>

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:** Undergraduate level MKTG 377  
Minimum Grade of D



**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **MKTG 490 - Independent Study in Marketing - 1 to 3**

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Topical areas in greater depth or unavailable in regular courses. Individual or small group readings and/or research projects. May be repeated to 6 hours by permission. Requires consent of department chair or program director.

## **Mechatronics & Robotics Engr (MRE)**

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### **MRE 198 - MRE Work Experience I - 0**

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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.

**Attributes:** COOP

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### **MRE 199 - MRE Cooperative Education I - 0**

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Supervised work experience with agency, firm, or organization that uses engineers. First work period of five-year academic/work experience program.

**Restrictions:** Must be enrolled in one of the following Majors: Mechatronics and Robotics Engr, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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### **MRE 298 - MRE Work Experience II - 0**

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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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level MRE 198

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### **MRE 299 - MRE Cooperative Education II - 0**

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Supervised work experience with agency, firm, or organization that uses engineers. Second work period of five-year academic/work experience

program.

**Restrictions:** Must be enrolled in one of the following Majors: Mechatronics and Robotics Engr, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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### **MRE 320 - Sensors and Actuators - 3**

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Sensors and transducers for motion, force, pressure, temperature, and fluid flow. Dynamic range, repeatability, sensibility, and noise. Instrumentation and interface for sensors. Actuators and their control.

**Prerequisites:** Undergraduate level ME 356  
Minimum Grade of C

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### **MRE 358 - Introduction to Mechatronics - 3**

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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:** Undergraduate level ME 356  
Minimum Grade of C

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### **MRE 380 - Design of Machine Elements - 3**

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Stress and deformation; buckling; failure theories for static and fatigue loading; design of gears, shafts and other. Prerequisite: CE 242 with a C or better and ME 354 with a C or better or concurrent enrollment.

**Prerequisites:** Undergraduate level ME 354  
Minimum Grade of C (concurrency allowed) AND  
Undergraduate level CE 242 Minimum Grade of C

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### **MRE 398 - MRE Work Experience III - 0**

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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.

**Attributes:** COOP

**Prerequisites:** Undergraduate level MRE 298

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### **MRE 399 - MRE Cooperative Education III - 0**

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Supervised work experience with agency, firm, or organization that uses engineers. Third work period of five-year academic/work experience program.

**Restrictions:** Must be enrolled in one of the following Majors: Mechatronics and Robotics Engr, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **MRE 424 - Control Implementation - 3**

Discretization, z-transform, simulation, real-time programming, implementation of digital compensators on a microcontroller, performance comparison.

**Prerequisites:** (Undergraduate level ME 450 Minimum Grade of C OR Undergraduate level ECE 365 Minimum Grade of C) AND Undergraduate level ECE 282 Minimum Grade of C

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### **MRE 454 - Robotics Dynamics & Control - 3**

(Same as ECE 467 and ME 454) Robotics, robot kinematics/ inverse kinematics, trajectory planning, differential motion/virtual work principle, dynamics and control. Prerequisites: consent of instructor.

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### **MRE 477 - Computer Integ Manuf Sys - 3**

(Same as IE 477). Application of robot theory integrated with automated manufacturing systems. Emphasis on design laboratory exercises.

**Prerequisites:** IE 470, IE 476, and CS 145 with a minimum grade of C in each course, or consent of instructor, or Graduate standing.

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### **MRE 480 - Design in Mech & Rob I - 2**

Problem solving methodology used in design, analysis and synthesis of robotics, mechatronics and automation; exploring, selecting, documenting, writing and presenting proposal. Prerequisites: At least two of the following four course: ME 420 , 450, 454 and 458.

**Prerequisites:** Prereq: ECE 211 with minimum grade of C and at least two of the following four courses with a minimum grade of C: MRE 320, 358, 454, and ME 450.

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### **MRE 481 - Design in Mech & Rob II - 2**

Application of engineering principles and 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:** Undergraduate level MRE 480 Minimum Grade of C

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### **MRE 492 - Topics in MRE - 1 to 6**

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.

**Restrictions:** Must be enrolled in one of the following Majors: Mechatronics and Robotics Engr, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

## **Management Science (MS)**

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### **MS 250 - Math Mth For Business Analysis - 3** FMS

Mathematical tools required for business analysis; business applications of functions, graphing, solving systems of equations, matrix algebra, counting rules, differentiation, and integration.

**Attributes:** PS

**Prerequisites:** (Undergraduate level MATH 120 Minimum Grade of C OR Undergraduate level MATH 120E Minimum Grade of C OR Undergraduate level MATH 125 Minimum Grade of C) AND Undergraduate level ECON 112 Minimum Grade of C

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### **MS 251 - Stat Analys For Bus Decisions - 4** FMS

Descriptive statistics; probability; inferential statistics; estimation and hypothesis testing of means and proportions; simple and multiple regression; and analysis of variance and contingency table analysis.

**Attributes:** BICS, EL, PS

**Prerequisites:** (Undergraduate level MS 250 Minimum Grade of C OR Undergraduate level MATH

150 Minimum Grade of C) AND Undergraduate level ECON 111 Minimum Grade of C AND Undergraduate level ECON 112 Minimum Grade of C

## **Military Science (MSC)**

### **MSC 101 - Intro to Military Science - 2** F

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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.

**Attributes:** EH

### **MSC 102 - Intro to Military Operations - 2** S

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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.

### **MSC 122 - Survivor Training - 2** FS

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Students learn survival and leadership skills to include: finding food/water, make shelter, conduct land navigation, climate adjustment, first aid, rappelling, and water survival.

### **MSC 201 - Applied Military Leadership - 3** F

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Detailed instruction and practical exercises in leadership, team building, problem solving, planning, organizing and decision-making. Army Values and Warrior Ethos and thier relationship to Army Leadership and the American people. Prerequisite: 101, 102, or prior service and instructor approval.

**Prerequisites:** Undergraduate level MSC 101 Minimum Grade of D AND Undergraduate level MSC 102 Minimum Grade of D

### **MSC 202 - Small Unit Leadership - 3** S

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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: MSC 101, MSC 102, MSC 201 or prior service and instructor approval.

**Prerequisites:** Undergraduate level MSC 101 Minimum Grade of D AND Undergraduate level MSC 102 Minimum Grade of D AND Undergraduate level MSC 201 Minimum Grade of D

### **MSC 222 - The Art of War - 3** FS

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History and evolution of warfare from the ancient Greeks to warfare in the future. Key military leaders and campaigns will be analyzed.

### **MSC 301 - Advanced Leadership Management - 3** F

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Platoon operations. Review of skills, techniques and concepts required by the small-unit leader: troop leading procedures, land navigation skills, tactical organization, and offensive tactics. Prerequisites: MSC 201, MSC 202 or prior service and instructor approval.

**Attributes:** EH

**Prerequisites:** Undergraduate level MSC 101 Minimum Grade of D AND Undergraduate level MSC 102 Minimum Grade of D AND Undergraduate level MSC 201 Minimum Grade of D AND Undergraduate level MSC 202 Minimum Grade of D

### **MSC 302 - Small Unit Leadership& Tactics - 3** S

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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 offensive tactics. Prerequisites: MSC 201, MSC 202, MSC 301 or prior service and instructor approval.

**Prerequisites:** Undergraduate level MSC 101 Minimum Grade of D AND Undergraduate level MSC 102 Minimum Grade of D AND Undergraduate level MSC 201 Minimum Grade of D AND Undergraduate level MSC 202 Minimum Grade of D AND

Undergraduate level MSC 301 Minimum Grade of D

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**MSC 401 - Leadership & Management - 3** F

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Mission command and Army operations; training management; Army leader ethics, communications; leadership skills; staff organization and coordination; and counseling skills. Explores practical aspects of military law. Requires consent of instructor.

**Prerequisites:** Undergraduate level MSC 301 Minimum Grade of D AND Undergraduate level MSC 302 Minimum Grade of D

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**MSC 402 - Officership - 3** S

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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. Requires consent of instructor.

**Prerequisites:** Undergraduate level MSC 301 Minimum Grade of D AND Undergraduate level MSC 302 Minimum Grade of D AND Undergraduate level MSC 401 Minimum Grade of D

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**MSC 490 - Independent Study - 3** FS

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Students accomplish a task or project based on initial counseling & 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.

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**MSC 495 - Special Topics - 3** S

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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.

**Restrictions:** Must be enrolled in one of the following Departments: Military Science

**Music (MUS)**

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**MUS 100 - Convocation - 0** FS

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Exposure to a wide variety of musical repertory as performed by students from the department of music.

**Attributes:** FPA

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**MUS 101 - Special Topics in Music - 0 to 3**

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Special topics in music.

**Attributes:** FPA

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**MUS 105 - World Music Ensemble - 1** FS

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An instrumental group for musicians from any culture to share his/her musical traditions as well as learn and perform the music of other cultures.

**Attributes:** EGC

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**MUS 111 - Intro to Music History/ Lit - 3** FMS

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Elements of music. Important composers, periods, styles and forms of music. [IAI Course No. F1 900]

**Attributes:** BFPA, IFAH

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**MUS 112 - Woodwind Methods - 1** S

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Introductory methods for teaching selected woodwind instruments (saxophone, clarinet, flute, oboe, bassoon) in elementary and secondary schools.

**Attributes:** FPA

**Restrictions:** Must be enrolled in one of the following Majors: Music

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**MUS 113 - Class Applied Brass - 1** F

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Introductory methods for teaching these instruments in elementary and secondary schools.

**Attributes:** FPA

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**MUS 114 - Class Applied Percussion - 1** F

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Introductory methods for teaching these instruments in elementary and secondary schools.

**Attributes:** FPA

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**MUS 115A - Class Applied Voice - 1** F

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Training in singing, diction, and teaching voice

students. Introductory. Must be taken in sequence.

**Attributes:** FPA

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**MUS 115B - Class Applied Voice - 1** S

Training in singing, diction, and teaching voice students. Introductory. Must be taken in sequence.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 115A  
Minimum Grade of C

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**MUS 116 - String Methods - 1** S

Introductory techniques and methods for teaching selected string instruments (violin, viola, cello, bass) in elementary and secondary schools.

**Attributes:** FPA

**Restrictions:** Must be enrolled in one of the following Majors: Music

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**MUS 120A - Fundamentals of Music I - 2**

Keyboard; Introduction to reading music including pitch, scales, key signatures, intervals, rhythm, time signatures, and notation.

**Attributes:** BFPA, IFAH

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**MUS 120B - Fundamentals of Music II - 2**

Theory. Introduction to reading music including pitch, scales, key signatures, intervals, rhythm, time signatures, and notation. Prerequisites: Music Theory Fundamentals Diagnostic and instructor and advisor permission or MUS 120A with a grade of C or better.

**Attributes:** BFPA, IFAH

**Prerequisites:** Undergraduate level MUS 120A  
Minimum Grade of C

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**MUS 121A - Class Applied Piano - 1** F

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 and instructor and advisor consent, or complete MUS 120B with a grade of B or better. Concurrent

enrollment in MUS 125A required.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 120B  
Minimum Grade of B

**Corequisites:** MUS125A

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**MUS 121B - Class Applied Piano - 1** S

Practical instruction for passing proficiency examination in piano which is required for all music concentrations. Must be taken in sequence. Must be taken in sequence. Concurrent enrollment in MUS 125B required.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 121A  
Minimum Grade of C AND Undergraduate level MUS 125A  
Minimum Grade of C

**Corequisites:** MUS125B

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**MUS 124 - Foundations of Music - 3** FS

Overview of the principles and procedures applicable to reading, writing, and perception of music including, rhythm, pitch, notation, scales, keys, intervals, and chord structures; and symbols and performance terms with reference to application to musical form and design. [Dist. FAH]

**Attributes:** BFPA, DFAH

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**MUS 125A - Theory of Music - 3** F

Fundamentals of music including notation, tonal harmony, rhythm, voice leading, counterpoint, and form. Must be taken in sequence. Prerequisites: Complete the Music Theory Fundamentals Diagnostic at 90% or better and instructor and advisor consent or complete MUS 120B with a grade of B or better. Concurrent enrollment in MUS 121A and MUS 126A are required.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 120B  
Minimum Grade of B

**Corequisites:** MUS121A, MUS126A

---

**MUS 125B - Theory of Music - 3** S

Fundamentals of music including notation, tonal harmony, rhythm, voice leading, counterpoint, and

form. Must be taken in sequence. Concurrent enrollment in MUS 121B and MUS 126B is required.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 125A  
Minimum Grade of C

**Corequisites:** MUS121B, MUS126B

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**MUS 126A - Aural Skills - 1** F

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Ear training and sight singing. Must be taken in sequence. Concurrent enrollment in MUS 121A and MUS 125A is required.

**Corequisites:** MUS121A, MUS125A

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**MUS 126B - Aural Skills - 1** S

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Ear training and sight singing. Must be taken in sequence. Concurrent enrollment in MUS 121B and MUS 125B is required.

**Prerequisites:** Undergraduate level MUS 121A  
Minimum Grade of C AND Undergraduate level MUS 125A  
Minimum Grade of C AND Undergraduate level MUS 126A  
Minimum Grade of C

**Corequisites:** MUS121B, MUS125B

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**MUS 139A - Diction For Singers - 2**

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Knowledge of diction through use of the international phonetic alphabet and its application to song literature: English, Italian, and German. Must be taken in sequence. Requires consent of advisor.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140Q  
Minimum Grade of C

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**MUS 139B - Diction For Singers - 2**

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Knowledge of diction through use of the international phonetic alphabet and its application to song literature: German and French. Must be taken in sequence. Requires consent of advisor.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140Q  
Minimum Grade of C

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**MUS 140A - Private Applied Music: Violin - 2 or 4** FS

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Violin. 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. Requires consent of instructor.

**Attributes:** FPA

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**MUS 140B - Private Applied Music: Viola - 2 or 4**

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Viola. 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 concentrations in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Performance class required. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140C - Private Applied Music: Cello - 2 or 4** S

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Cello. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140D - Applied Music: String Bass - 2 or 4** S

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String bass. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140E - Private Applied Music: Flute - 2 or 4** <sup>FS</sup>

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Flute. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140F - Private Applied Music: Oboe - 2 or 4**

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Oboe. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140G - Applied Music: Clarinet - 2 or 4** <sup>FS</sup>

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Clarinet. 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 concentrations in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. Performance class required. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140H - Private Applied Music: Bassoon - 2 or 4** <sup>S</sup>

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Bassoon. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140I - Applied Music: Saxophone - 2 or 4** <sup>FS</sup>

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Saxophone. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140J - Private Applied: Percussion - 2 or 4** <sup>FS</sup>

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Percussion. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140K - Private Applied Music: Piano - 2 or 4** <sup>F</sup>

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Piano. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140L - Private Applied Music: Horn - 2 or 4** <sup>FS</sup>

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Horn. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140M - Applied Music: Trumpet - 2 or 4** <sup>FS</sup>

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Trumpet. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140N - Applied Music: Trombone - 2 or 4**

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Trombone. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140O - Private Applied Music: Tuba - 2 or 4**

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Tuba. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140P - Applied Music: Baritone - 2 or 4**

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Baritone. 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.

**Attributes:** FPA

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**MUS 140Q - Private Applied Music: Voice - 2 or 4** <sup>FS</sup>

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Voice. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140R - Private Applied Music: Organ - 2 or 4**

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Organ. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140S - Appl Mus: Harpsichord - 2 or 4**

Harpsichord. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140T - Private Applied Music: Harp - 2 or 4**

Harp. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140U - Private Applied Music: Guitar - 2 or 4** <sup>F</sup>

Guitar. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 140W - Appl Music: Conducting - 2 or 4**

Conducting. 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. Prerequisite: consent of instructor.

**Attributes:** FPA

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**MUS 141D - Private Jazz: Bass - 2 or 4** <sup>F</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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**MUS 141I - Private Jazz: Saxophone - 2 or 4** <sup>F</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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**MUS 141J - Private Jazz: Percussion - 2 or 4** <sup>FS</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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#### **MUS 141K - Private Jazz: Piano - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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#### **MUS 141M - Private Jazz: Trumpet - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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#### **MUS 141N - Private Jazz: Trombone - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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#### **MUS 141Q - Private Jazz: Voice - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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#### **MUS 141U - Private Jazz: Guitar - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

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**MUS 144 - Women's Glee - 0 or 1**

Non-Auditioned Chorus open to singers campus-wide who desire a quality experience featuring outstanding repertoire.

**Attributes:** FPA

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**MUS 146 - Gospel Choir - 1**

Rehearsal and performance of gospel style music. This course provides a curricular experience for students who wish to develop their skills and expand their knowledge in this type of art form. May be repeated.

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**MUS 165A - Piano Practicum - 1**

Keyboard harmony, sight reading, transposition, improvisation, ensemble skills, and technique. Must be taken in sequence. Required for all keyboard majors.

**Attributes:** FPA

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**MUS 165B - Piano Practicum - 1**

Keyboard harmony, sight reading, transposition, improvisation, ensemble skills, and technique. Must be taken in sequence. Required for all keyboard majors.

**Attributes:** FPA

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**MUS 201 - Music Education Intro - 1** F

Explore music teaching as a vocation. Off-campus visits to schools required outside class time: Freshman standing or permission of instructor.

**Attributes:** BFPA

**Restrictions:** Must be enrolled in one of the following Classifications: Freshman, 1st Semester, Freshman

---

**MUS 212A - Applied Composition - 2** FS

Original composition. Theory/Composition majors must earn a grade of "B" or better.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 125B  
Minimum Grade of B

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**MUS 212B - Applied Composition - 2** S

Original composition. Theory/Composition majors must earn a grade of "B" or better.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 125B  
Minimum Grade of B

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**MUS 221A - Class Applied Piano - 1** F

Practical instruction for passing piano proficiency required of all music concentrations. Must be taken in sequence. Prerequisite: MUS 121B or instructor permission required.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 121B  
Minimum Grade of C

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**MUS 221B - Class Applied Piano - 1** S

Practical instruction for passing piano proficiency required of all music concentrations. Must be taken in sequence.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 221A  
Minimum Grade of C

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**MUS 222 - University Band - 0 or 1** FS

Wind/percussion ensemble. No audition required. May be repeated to 8 hours.

**Attributes:** FPA

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**MUS 225A - Theory of Music - 4** F

Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in sequence.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 111  
Minimum Grade of C AND Undergraduate level MUS 125B Minimum Grade of C

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**MUS 225B - Theory of Music - 4** S

Advanced harmonic techniques, modulation, altered chords, chromatic harmony, counterpoint, and introduction to contemporary harmonic principles. Must be taken in sequence.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 225A  
Minimum Grade of C

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**MUS 227 - Introduction to Composition - 2** <sup>S</sup>

Introduction to materials and methods of composition, including notation, melody, harmony, rhythm, philosophy, and style.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225A  
Minimum Grade of B

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**MUS 230 - Beginning Improvisation - 1** <sup>FS</sup>

Theory and techniques; functional harmony; melodic form; special scales; tune studies; ear training; and development of style. Requires consent of advisor.

**Attributes:** FPA

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**MUS 231 - Jazz Keyboard Theory - 2** <sup>F</sup>

Jazz keyboard theory is designed for (but not limited to) jazz performance majors as a jazz theory course using the piano keyboard and computer as a facilitator

**Attributes:** FPA

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**MUS 233 - Guitar Ensemble - 0 or 1** <sup>FS</sup>

NO DESCRIPTION May be repeated. Requires consent of advisor.

**Attributes:** FPA

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**MUS 240A - Private Applied Music: Violin - 2 or 4** <sup>FS</sup>

Violin. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140A  
Minimum Grade of C

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**MUS 240B - Private Applied Music: Viola - 2 or 4**

Viola. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140B  
Minimum Grade of C

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**MUS 240C - Private Applied Music: Cello - 2 or 4**

Cello. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140C  
Minimum Grade of C

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**MUS 240D - Private App Mus: String Bass - 2 or 4** <sup>S</sup>

String bass. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140D  
Minimum Grade of C

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**MUS 240E - Private Applied Music: Flute - 2 or 4** <sup>FS</sup>

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Flute. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140E  
Minimum Grade of C

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**MUS 240F - Private Applied Music: Oboe - 2 or 4** <sup>S</sup>

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Oboe. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140F  
Minimum Grade of C

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**MUS 240G - Private App Music: Clarinet - 2 or 4** <sup>FS</sup>

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Clarinet. 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 concentrations 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140G  
Minimum Grade of C

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**MUS 240H - Private Applied Music: Bassoon - 2 or 4**

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Bassoon. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140H  
Minimum Grade of C

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**MUS 240I - Private Applied Mus: Saxophone - 2 or 4** <sup>S</sup>

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Saxophone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140I  
Minimum Grade of C

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**MUS 240J - Private App Mus: Percussion - 2 or 4** FS

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Percussion. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140J  
Minimum Grade of C

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**MUS 240K - Private Applied Music: Piano - 2 or 4** FS

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Piano. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140K

Minimum Grade of C

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**MUS 240L - Private Applied Music: Horn - 2 or 4**

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Horn. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140L  
Minimum Grade of C

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**MUS 240M - Private Applied Music: Trumpet - 2 or 4** FS

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Trumpet. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140M  
Minimum Grade of C

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**MUS 240N - Private Applied Mus: Trombone - 2 or 4**

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Trombone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140N  
Minimum Grade of C

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**MUS 2400 - Private Applied Music: Tuba - 2 or 4** <sup>S</sup>

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Tuba. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140Q  
Minimum Grade of C

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**MUS 240P - Private Applied Mus: Baritone - 2 or 4** <sup>S</sup>

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Baritone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140P  
Minimum Grade of C

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**MUS 240Q - Private Applied Music: Voice - 2 or 4** <sup>FS</sup>

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Voice. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140Q  
Minimum Grade of C

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**MUS 240R - Private Applied Music: Organ - 2 or 4**

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Organ. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140R  
Minimum Grade of C

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**MUS 240S - Private App Mus: Harpsichord - 2 or 4**

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Harpsichord. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140S  
Minimum Grade of C

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**MUS 240T - Private Applied Music: Harp - 2 or 4**

Harp. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140T  
Minimum Grade of C

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**MUS 240U - Private Applied Music: Guitar - 2 or 4** <sup>S</sup>

Guitar. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140U  
Minimum Grade of C

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**MUS 240W - Private App Mus: Conducting - 2 or 4**

Conducting. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140W  
Minimum Grade of C

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**MUS 241D - Private Jazz: Bass - 2 or 4** <sup>F</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141D  
Minimum Grade of C

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**MUS 241I - Private Jazz: Saxophone - 2 or 4** <sup>S</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA



**Prerequisites:** Undergraduate level MUS 141I  
Minimum Grade of C

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**MUS 241J - Private Jazz: Percussion - 2 or 4** <sup>S</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141J  
Minimum Grade of C

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**MUS 241K - Private Jazz: Piano - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141K  
Minimum Grade of C

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**MUS 241M - Private Jazz: Trumpet - 2 or 4** <sup>S</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141M  
Minimum Grade of C

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**MUS 241N - Private Jazz: Trombone - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141N  
Minimum Grade of C

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**MUS 241Q - Private Jazz: Voice - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141Q  
Minimum Grade of C

### **MUS 241U - Private Jazz: Guitar - 2 or 4** <sup>s</sup>

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 141U Minimum Grade of C

### **MUS 244 - Community Choral Society - 0 or 1** <sup>s</sup>

Performs literature from all eras. Open to all students. May be repeated.

**Attributes:** FPA

### **MUS 267 - History of Music I - 2**

Includes significant topics and repertoires in European music history before c.1800.

**Attributes:** BHUM, DFAH, EGC, FPA, IC

**Prerequisites:** Undergraduate level MUS 125A Minimum Grade of C

### **MUS 300 - Mus in Elementary Classroom - 3**

Music methods for the elementary classroom teacher. Not for music education major: (see MUS 301A).

**Attributes:** BFPA, DFAH

### **MUS 301A - Mus Ed Methods: Elementary - 2** <sup>F</sup>

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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 112 Minimum Grade of C AND Undergraduate level MUS 115A Minimum Grade of C AND Undergraduate level MUS 115B Minimum Grade of C AND Undergraduate level MUS 116 Minimum Grade of C AND Undergraduate level MUS 201 Minimum Grade of C AND Undergraduate level MUS 221A Minimum Grade of C AND Undergraduate level MUS 221B Minimum Grade of C AND Undergraduate level MUS 225B Minimum Grade of C AND Undergraduate level MUS 318A Minimum Grade of C AND Undergraduate level MUS 318B Minimum Grade of C AND Undergraduate level CI 200 Minimum Grade of C OR Undergraduate level CIED 100 Minimum Grade of C

### **MUS 301B - Mus Ed Meth: Secondary Vocal - 2** <sup>s</sup>

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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 112 Minimum Grade of C AND Undergraduate level MUS 115A Minimum Grade of C AND Undergraduate level MUS 115B Minimum Grade of C AND Undergraduate level MUS 116 Minimum Grade of C AND Undergraduate level MUS 201 Minimum Grade of C AND Undergraduate level MUS 221A Minimum Grade of C AND Undergraduate level MUS 221B Minimum Grade of C AND Undergraduate level MUS 225B Minimum Grade of C AND Undergraduate level MUS 318A Minimum Grade of C AND Undergraduate level MUS 318B Minimum Grade of C AND Undergraduate level CI 200 Minimum Grade of C OR Undergraduate level CIED 100 Minimum Grade of C

### **MUS 301C - Mus Ed Mthds: Sec Instrumental - 2** <sup>F</sup>

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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 112  
Minimum Grade of C AND Undergraduate level MUS 115A Minimum Grade of C AND Undergraduate level MUS 115B Minimum Grade of C AND Undergraduate level MUS 116 Minimum Grade of C AND Undergraduate level MUS 201 Minimum Grade of C AND Undergraduate level MUS 221A Minimum Grade of C AND Undergraduate level MUS 221B Minimum Grade of C AND Undergraduate level MUS 225B Minimum Grade of C AND Undergraduate level MUS 318A Minimum Grade of C AND Undergraduate level MUS 318B Minimum Grade of C AND Undergraduate level CI 200 Minimum Grade of C OR Undergraduate level CIED 100 Minimum Grade of C

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**MUS 305 - Non-Western Music - 3** s

Covers the basic elements of music and perceptive listening as they relate to non-western music. Examines the music-culture of several non-western societies.

**Attributes:** BFPA, DFAH, EGC

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**MUS 309 - Orchestration - 3** F

Writing for orchestral instruments.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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**MUS 312A - Applied Composition - 2**

Original composition. Must be taken in sequence. Weekly seminar required. Prerequisite: 227 or instructor permission.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 227  
Minimum Grade of C

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**MUS 312B - Applied Composition - 2**

Original composition. Must be taken in sequence.

Weekly seminar required. Prerequisite: 227 or instructor permission.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 227  
Minimum Grade of C

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**MUS 318A - Conducting - 2** F

General fundamental conducting patterns, conducting experience, musical terminology. Must be taken in sequence.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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**MUS 318B - Conducting - 2** s

Choral and instrumental conducting experience, rehearsal techniques, analysis of literature suitable for all levels of ability. Must be taken in sequence.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C AND Undergraduate level MUS 318A Minimum Grade of C

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**MUS 322 - Wind Symphony - 0 or 1** FS

NO DESCRIPTION May be repeated to 16 hours. Registration by audition.

**Attributes:** FPA

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**MUS 326 - Analysis - 3** F

Exploration of important musical forms and styles from both a theoretical and historical context.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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**MUS 330 - Intermediate Improvisation - 1** FS

Theory and techniques, functional harmony, melodic form, special scales, tune studies, ear training, and development of style. Requires instructor permission.

**Attributes:** BFPA, DFAH

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**MUS 331 - Jazz Keyboard Theory - 2** s

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Jazz keyboard theory is designed for (but not limited to) jazz performance majors as a jazz theory course using the piano keyboard and computer as the facilitator.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 231  
Minimum Grade of C

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**MUS 333 - Jazz Combo - 0 or 1** FS

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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. Registration by audition.

**Attributes:** FPA

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**MUS 337 - Evolution of Jazz Styles - 3**

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For music majors. Historical research and analysis of particular styles of jazz innovators.

**Attributes:** EUSC, FPA

**Restrictions:** Must be enrolled in one of the following Majors: Music

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**MUS 338 - Introduction to Jazz - 3** s

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Jazz forms and styles: development, illustrations, and performance.

**Attributes:** BFPA, DFAH, EUSC

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**MUS 340A - Private Applied Music: Violin - 2 or 4** s

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Violin. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240A  
Minimum Grade of C

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**MUS 340B - Private Applied Music: Viola - 2 or 4**

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Viola. 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 concentrations 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240B  
Minimum Grade of C

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**MUS 340C - Private Applied Music: Cello - 2 or 4**

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Cello. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240C  
Minimum Grade of C

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**MUS 340D - Private App Mus: String Bass - 2 or 4**

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String bass. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240D  
Minimum Grade of C

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**MUS 340E - Private Applied Music: Flute - 2 or 4** FS

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Flute. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240E  
Minimum Grade of C

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**MUS 340F - Private Applied Music: Oboe - 2 or 4**

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Oboe. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240F  
Minimum Grade of C

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**MUS 340G - Private Applied Mus: Clarinet - 2 or 4** F

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Clarinet. 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 concentrations 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240G  
Minimum Grade of C

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**MUS 340H - Private Applied Music: Bassoon - 2 or 4**

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Bassoon. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240H  
Minimum Grade of C

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**MUS 340I - Private Applied Mus: Saxophone - 2 or 4**

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Saxophone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240I  
Minimum Grade of C

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**MUS 340J - Private App Mus: Percussion - 2 or 4** <sup>S</sup>

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Percussion. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240J  
Minimum Grade of C

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**MUS 340K - Private Applied Music: Piano - 2 or 4**

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Piano. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240K  
Minimum Grade of C

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**MUS 340L - Private Applied Music: Horn - 2 or 4**

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Horn. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240L  
Minimum Grade of C

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**MUS 340M - Private Applied Music: Trumpet - 2 or 4**

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Trumpet. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 140M  
Minimum Grade of C

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**MUS 340N - Private Applied Mus: Trombone - 2 or 4** <sup>S</sup>

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Trombone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240N  
Minimum Grade of C

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**MUS 3400 - Private Applied Music: Tuba - 2 or 4**

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Tuba. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240O  
Minimum Grade of C

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**MUS 340P - Private Applied Mus: Baritone - 2 or 4**

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Baritone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240P  
Minimum Grade of C

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**MUS 340Q - Private Applied Music: Voice - 2 or 4** <sup>FS</sup>

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Voice. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240Q  
Minimum Grade of C

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**MUS 340R - Private Applied Music: Organ - 2 or 4**

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Organ. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240R  
Minimum Grade of C

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**MUS 340S - Private App Mus: Harpsichord - 2 or 4**

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Harpsichord. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240S  
Minimum Grade of C

### **MUS 340T - Private Applied Music: Harp - 2 or 4**

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Harp. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240T  
Minimum Grade of C

### **MUS 340U - Private Applied Music: Guitar - 2 or 4**

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Guitar. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240U  
Minimum Grade of C

### **MUS 340W - Private App Mus: Conducting - 2 or 4**

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Conducting. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 240W  
Minimum Grade of C

### **MUS 341D - Private Jazz: Bass - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241D  
Minimum Grade of C

### **MUS 341I - Private Jazz: Saxophone - 2 or 4**

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241I  
Minimum Grade of C

### **MUS 341J - Private Jazz: Percussion - 2 or 4** <sup>s</sup>

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Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241J  
Minimum Grade of C

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### **MUS 341K - Private Jazz: Piano - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241K  
Minimum Grade of C

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### **MUS 341M - Private Jazz: Trumpet - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241N  
Minimum Grade of C

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### **MUS 341N - Private Jazz: Trombone - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241Q  
Minimum Grade of C

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### **MUS 341Q - Private Jazz: Voice - 2 or 4**

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241Q  
Minimum Grade of C

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### **MUS 341U - Private Jazz: Guitar - 2 or 4**

FS

Private Jazz - 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. Prerequisite: for 141, permission required. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 241U  
Minimum Grade of C

---

**MUS 342 - Musical Theater Ensemble - 0 to 1** <sup>S</sup>

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Participation in a musical theater production under the auspices of the theater and/or music departments. May be repeated. Registration by audition.

**Attributes:** FPA

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**MUS 343 - Seminar in Audition Techniques - 1**

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Discussion of Musical Theatre audition techniques. Topics will include: song selection and preparation, monologues, dance callbacks, interviews, resumes, and headshots.

**Attributes:** FPA

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**MUS 355A - Chamber Music Ensemble: Brass - 0 or 1**

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Brass. May be taken in any sequence. Any part may be repeated for 8 semesters. Requires instructor permission.

**Attributes:** FPA

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**MUS 355B - Chamber Mus Ens: Woodwinds - 0 or 1** <sup>FS</sup>

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Woodwinds. May be taken in any sequence. Any part may be repeated for 8 semesters. Requires instructor permission.

**Attributes:** FPA

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**MUS 355C - Chamber Mus Ensemble: Strings - 0 or 1** <sup>FS</sup>

---

Strings. May be taken in any sequence. Any part may

be repeated for 8 semesters. Requires instructor permission.

**Attributes:** FPA

---

**MUS 355D - Chamber Mus Ensemble: Percuss - 0 or 1** <sup>FS</sup>

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Percussion. May be taken in any sequence. Any part may be repeated for 8 semesters. Requires instructor permission.

**Attributes:** FPA

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**MUS 365 - Piano Ensemble - 0 to 1** <sup>FS</sup>

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Vocal and instrumental accompanying; chamber music and piano duo literature. May be repeated up to 8 times. Requires consent of instructor.

**Attributes:** FPA

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**MUS 367A - History of Music II - 2**

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Includes significant topics and repertoires in European music history c.1800 to the present. Prerequisite: MUS 125B and MUS 267 both with a C or better. Musical Theater majors are required only to complete MUS 125B with a C or better.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level MUS 267  
Minimum Grade of C AND Undergraduate level MUS 125B  
Minimum Grade of C

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**MUS 367B - History of Music III - 2**

---

Examines genres, styles, and global connections in European and other musical traditions.

**Attributes:** BHUM, DFAH, EGC, FPA, IC

**Prerequisites:** Undergraduate level MUS 367A  
Minimum Grade of C AND Undergraduate level MUS 225A  
Minimum Grade of C

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**MUS 377 - University Symphony Orchestra - 1** <sup>FS</sup>

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May be repeated for a maximum of 8 credit hours. Registration by audition.

**Attributes:** FPA

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**MUS 390 - Junior Recital - 0**

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Public recital by candidates for major in performance.

**Attributes:** FPA

**Prerequisites:** MUS 140/141, 240/241, and 340/341 with a grade of C or better.

**Restrictions:** Must be enrolled in one of the following Majors: Music

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**MUS 395A - Music Business - 3**

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F

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.

**Attributes:** BFPA, DFAH

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**MUS 395B - Music Business - 3**

---

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.

**Attributes:** BFPA, DFAH

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**MUS 400A - Senior Assignment-B.A. Music - 0**

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Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior, Must be enrolled in one of the following Levels: Undergraduate

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**MUS 400B - Senior Assignment-Music Busine - 0**

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FS

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400C - Senior Assignment-Music Compos - 0**

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Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400E - Senior Assignment-Music Educat - 0**

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S

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400H - Senior Assignment-Music Histor - 0**

---

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400J - Senior Assignment-Jazz Perform - 0**

---

FS

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400P - Senior Assignment-Music Perfor - 0**

---

S

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400T - Senior Assignment-Music Theory - 0**

---

Specific projects are assigned per degree program and are embedded in upper-level coursework.

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**MUS 400Z - Specific Projects in Music - 0 to 3**

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Designed for students who will be involved with a specific project: traveling to perform, present, or to develop specific skills related to major.

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### **MUS 401 - Psycho-Physiology of Music - 2**

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Human capacities, their relationship to musical potentials and development. Acoustical foundations of music. Requires instructor permission.

**Attributes:** FPA

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### **MUS 409A - Jazz Arranging - 2**

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Basic skills of arranging for combo; big band; and studio orchestra. Writing project required for each course section. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C AND Undergraduate level MUS 231  
Minimum Grade of C

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### **MUS 409B - Jazz Arranging - 2**

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Basic skills of arranging for combo; big band; and studio orchestra. Writing project required for each course section. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 409A  
Minimum Grade of C

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### **MUS 411A - Music Literature - Symphonic - 2**

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Symphonic. Study of period, composer, style or medium. May be repeated provided no topic is repeated. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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### **MUS 411B - Music Literature - Choral - 2**

---

Choral. Study of period, composer, style or medium. May be repeated provided no topic is repeated. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B

Minimum Grade of C

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### **MUS 411C - Music Literature - Chamber - 2**

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Chamber. Study of period, composer, style or medium. May be repeated provided no topic is repeated. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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### **MUS 411D - Music Literature - Opera - 2**

---

Opera. Study of period, composer, style or medium. May be repeated provided no topic is repeated. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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### **MUS 411E - Mus Literature - Special Areas - 2**

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Special areas. Study of period, composer, style or medium. May be repeated provided no topic is repeated. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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### **MUS 411G - Music Literature: 20th Century - 2**

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Study of period, composer, style or medium. May be repeated as long as topic is different. NOT FOR GRADUATE CREDIT.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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### **MUS 412A - Applied Composition - 4**

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Original composition. Must be taken in sequence. Weekly seminar required. Prerequisite: 312b or instructor permission.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 312B  
Minimum Grade of C

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### **MUS 412B - Applied Composition - 4**

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Original composition. Must be taken in sequence. Weekly seminar required. Senior recital required for 412b. Prerequisite: 312b or instructor permission.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 312B  
Minimum Grade of C

---

### **MUS 413A - Piano Lit Baroque to Early Rom - 2**

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Baroque to early romantic.

**Attributes:** FPA

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### **MUS 413B - Piano Lit Romantic and Contemp - 2**

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Romantic and contemporary.

**Attributes:** FPA

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### **MUS 415 - Class Applied Voice - 2**

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Singing, diction, and voice pedagogy for music majors with minimal vocal experience.

**Attributes:** FPA

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### **MUS 419 - Vocal Teaching Techniques - 2**

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Vocal Teaching Techniques and Materials: Principles of vocal production and methods of teaching voice.

**Attributes:** BFPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Music, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **MUS 420 - Music Education Practicum - 1**

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Shop laboratory course. Selection adjustments, maintenance, and repair of musical instruments.

**Attributes:** FPA

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### **MUS 422 - Wind Ensemble - 1**

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NO DESCRIPTION May be repeated. Not for graduate credit.

**Corequisites:** MUS322

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### **MUS 426A - Adv Mus Thry: Music since 1900 - 2**

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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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 326  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### **MUS 430 - Advanced Improvisation - 1**

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FS

Variety of jazz structures. Real-time composition and analysis. Students should know principles of note election, time-feel, phrasing, and articulation as developed in MUS 330. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C AND Undergraduate level MUS 330  
Minimum Grade of C

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### **MUS 433 - Concert Jazz Band - 0 or 1**

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FS

NO DESCRIPTION May be repeated. Not for graduate credit. Registration by audition.

**Attributes:** FPA

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### **MUS 436 - Jazz Education - 2**

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Teaching jazz at elementary, secondary, and college levels, both group and individual instruction. Prerequisite: MUS 225B or permit required.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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### **MUS 439 - Recording Techniques - 2**

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F

Technical understanding of equipment used in basic digital recording studios: microphones; equalization;

mixing; hard disk recording and 24 track recording formats.

**Attributes:** FPA

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**MUS 440A - Private Applied Music: Violin - 2 or 4** <sup>FS</sup>

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Violin. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340A  
Minimum Grade of C

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**MUS 440B - Private Applied Music: Viola - 2 or 4**

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Viola. 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 concentrations 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340B  
Minimum Grade of C

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**MUS 440C - Private Applied Music: Cello - 2 or 4**

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Cello. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340C  
Minimum Grade of C

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**MUS 440D - Private App Mus: String Bass - 2 or 4**

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String bass. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340D  
Minimum Grade of C

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**MUS 440E - Private Applied Music: Flute - 2 or 4**

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Flute. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340E  
Minimum Grade of C

### **MUS 440F - Private Applied Music: Oboe - 2 or 4**

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Oboe. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340F  
Minimum Grade of C

### **MUS 440G - Private Applied Mus: Clarinet - 2 or 4**

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Clarinet. 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 concentrations 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340G  
Minimum Grade of C

### **MUS 440H - Private Applied Music: Bassoon - 2 or 4**

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Bassoon. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340H  
Minimum Grade of C

### **MUS 440I - Private Applied Mus: Saxophone - 2 or 4**

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Saxophone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340I  
Minimum Grade of C

### **MUS 440J - Private App Mus: Percussion - 2 or 4**

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Percussion. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340J  
Minimum Grade of C

### **MUS 440K - Private Applied Music: Piano - 2 or 4**

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Piano. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340K  
Minimum Grade of C

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**MUS 440L - Private Applied Music: Horn - 2 or 4** FS

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Horn. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340L  
Minimum Grade of C

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**MUS 440M - Private Applied Music: Trumpet - 2 or 4** S

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Trumpet. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340M  
Minimum Grade of C

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**MUS 440N - Private Applied Mus: Trombone - 2 or 4**

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Trombone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340N  
Minimum Grade of C

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**MUS 440O - Private Applied Music: Tuba - 2 or 4**

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Tuba. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340O  
Minimum Grade of C

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**MUS 440P - Private Applied Mus: Baritone - 2 or 4**

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Baritone. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340P  
Minimum Grade of C

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**MUS 440Q - Private Applied Music: Voice - 2 or 4** FS

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Voice. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340Q  
Minimum Grade of C

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**MUS 440R - Private Applied Music: Organ - 2 or 4**

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Organ. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340R  
Minimum Grade of C

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**MUS 440S - Private App Mus: Harpsichord - 2 or 4**

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Harpsichord. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340S  
Minimum Grade of C

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**MUS 440T - Private Applied Music: Harp - 2 or 4**

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Harp. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340T  
Minimum Grade of C

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**MUS 440U - Private Applied Music: Guitar - 2 or 4**

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Guitar. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340U  
Minimum Grade of C

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**MUS 440W - Private App Mus: Conducting - 2 or 4**

Conducting. 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.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 340W  
Minimum Grade of C

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**MUS 441D - Private Jazz: Bass - 2 or 4** <sup>S</sup>

Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341D  
Minimum Grade of C

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**MUS 441E - Private Applied Mus: Flute - 2 or 4**

Flute. 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.

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**MUS 441F - Private Applied Mus: Oboe - 2 or 4**

Oboe. 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.

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**MUS 441G - Private Applied Mus:Clarinet - 2 or 4**

Clarinet. 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 concentrations 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.

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**MUS 441H - Private Applied Mus:Bassoon - 2 or 4**

Bassoon. 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.

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**MUS 441I - Private Jazz: Saxophone - 2 or 4** <sup>FS</sup>

Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341I  
Minimum Grade of C

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**MUS 441J - Private Jazz: Percussion - 2 or 4**

Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341J  
Minimum Grade of C

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**MUS 441K - Private Jazz: Piano - 2 or 4** <sup>FS</sup>

Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341K  
Minimum Grade of C

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**MUS 441L - Private Applied Mus: Horn - 2 or 4**

Horn. 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.

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**MUS 441M - Private Jazz: Trumpet - 2 or 4** <sup>FS</sup>

Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341M

Minimum Grade of C

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### **MUS 441N - Private Jazz: Trombone - 2 or 4**

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Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341N  
Minimum Grade of C

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### **MUS 441O - Private Applied Mus:Tuba - 2 or 4**

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Tuba. 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.

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### **MUS 441P - Private Applied Mus: Baritone - 2 or 4**

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Baritone. 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.

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### **MUS 441Q - Private Jazz: Voice - 2 or 4**

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Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341Q  
Minimum Grade of C

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### **MUS 441R - Private Applied Mus: Organ - 2 or 4**

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Organ. 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.

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### **MUS 441S - Private Applied Mus: Harpsichord - 2 or 4**

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Harpsichord. 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.

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**MUS 441T - Private Applied Mus: Harp - 2 or 4**

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Harp. 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.

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**MUS 441U - Private Jazz: Guitar - 2 or 4**

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Individual instruction in performance of various jazz styles. Offered at the 400 and 500 levels in the 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. Students with concentration in performance usually take 4 hours. Concentrations in music education and all secondary concentrations usually take 2 hours. MUS 566 required for each semester of applied lesson. Prerequisites: audition; consent of instructor. d. Bass, i. Saxophone, j. Percussion, k. Piano, m. Trumpet, n. Trombone, q. Voice, u. Guitar.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 341U  
Minimum Grade of C

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**MUS 442 - Counterpoint - 3**

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S

Sixteenth and Eighteenth century contrapuntal techniques.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 225B  
Minimum Grade of C

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**MUS 444 - Concert Choir - 0 or 1**

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FS

Emphasis on unaccompanied literature and larger choral works. Touring choir. May be repeated. Not

for graduate credit. Registration by audition.

**Attributes:** FPA

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**MUS 460A - Opera Workshop - 0 to 2**

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F

Skills, techniques, and literature used in performance and production of operatic scenes, operas, and operettas. May be repeated for a maximum of 16 hours. Prerequisite: Permit required.

**Attributes:** FPA

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**MUS 460B - Opera Workshop - 0 to 2**

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S

Skill, techniques, and literature used in performance and production of operatic scenes, operas, and operettas. May be repeated for a maximum of 16 hours. Prerequisite: Permit required.

**Attributes:** FPA

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**MUS 461A - Piano Teach Techs & Mats: Meth - 3**

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Methods. Problems of private studio teaching and college level teaching. Must be taken in sequence.

**Attributes:** BFPA, DFAH

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**MUS 461B - Piano Teaching Tech & Material - 3**

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Materials. Problems of private studio teaching and college teaching. Must be taken in sequence.

**Attributes:** BFPA, DFAH

**Prerequisites:** Undergraduate level MUS 340K  
Minimum Grade of C

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**MUS 465 - Dev and Teaching of Strings - 2**

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FS

String education in elementary and secondary schools. Techniques of heterogeneous and homogeneous string teaching. Resource aids. May be repeated to a maximum of 8 hours. Requires consent of instructor.

**Attributes:** FPA

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**MUS 466 - Madrigal Singers - 0 or 1**

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Emphasis on renaissance literature. Touring choir. May be repeated to a maximum of 4 hours. Not for

graduate credit. Registration by audition.

**Attributes:** FPA

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### **MUS 472A - Arranging - 3**

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Instrumental. Basic Skills of arranging for large ensembles. Writing project required. May be repeated so long as topic is different.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 309  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### **MUS 472B - Arranging - 3**

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Choral. Basic Skills of arranging for large ensembles. Writing project required. May be repeated so long as topic is different.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 309  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### **MUS 477 - SIUE Camerata - 1**

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NO DESCRIPTION May be repeated. Not for graduate credit. Prerequisite: By audition.

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### **MUS 481 - Readings in Music Theory - 1 to 3** <sup>S</sup>

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NO DESCRIPTION May be repeated to 6 credits. Prerequisite: Permit required.

**Attributes:** FPA

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### **MUS 482 - Rdngs in Mus History/Lit - 1 to 3**

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NO DESCRIPTION May be repeated to 6 credits. Prerequisite: Permit required.

**Attributes:** FPA

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### **MUS 483 - Readings in Music Education - 2**

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May be repeated for up to 6 hours. Prerequisite: permission of instructor.

**Attributes:** FPA

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### **MUS 485 - Piano Tech for the Pianist - 2**

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A hands on look at the acoustics and mechanics of the piano, including regulation, tuning, maintenance and purchasing. (Not for Graduate Credit).

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 225A  
Minimum Grade of B

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### **MUS 487 - Computer Mus Wksp For Teachers - 2**

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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: Permit required.

**Attributes:** FPA

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### **MUS 490 - Graduation Recital - 0** <sup>FS</sup>

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(Performance specialization) Public recital by candidates for major in Music Performance and Music Education.

**Attributes:** FPA

**Prerequisites:** A grade of C or better in MUS 140/141 - 440/441 A-X.

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

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### **MUS 495 - Supervised Int Music Business - 12** <sup>FS</sup>

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Involves at least 15 weeks of full-time work experience with music industry under supervision of faculty and/or person in music industry. Not for graduate credit.

**Attributes:** FPA

**Prerequisites:** Undergraduate level MUS 395A  
Minimum Grade of C AND Undergraduate level MUS 395B Minimum Grade of C

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### **MUS 499 - Independent Study - 1 to 3** <sup>FS</sup>

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Independent research under the supervision of a faculty specialist. May be repeated to 6 credits. Prerequisite: Permit required.

**Attributes:** FPA

## **Nursing (NURS)**

### **NURS 112 - Empowering the Nursing Student - 2**

Elective introduction to nursing profession and university community. Encourages a sense of empowerment among students by developing their abilities to actively take charge of collegiate experiences. Requires consent of advisor.

### **NURS 199 - Nurs Coop Ed Internship - 0** FMS

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

### **NURS 200R - RN BS Program Immersion - 0**

This program immersion equips students with the program, technology, and library skills needed to be successful in the Accelerated RN/BS Program.

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

### **NURS 231 - Exam Role Prof Nurse - 4** FS

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.

### **NURS 234 - Human Dev Across the Lifespan - 3** FS

Study of human growth and development and variations from conception to old age. Includes development of physiological, psychological, sociocultural, moral, ethical and spiritual systems. Prerequisite: PSYC 111 or consent of instructor for non-majors. Advisor permit only.

**Prerequisites:** Undergraduate level PSYC 111

Minimum Grade of D

### **NURS 240 - Pathophysiology - 4** FS

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 240A/B; BIOL 250; CHEM 120 or equivalents. Admission to the School of Nursing or consent of instructor, advisor permit only.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 240A Minimum Grade of C AND Undergraduate level BIOL 240B Minimum Grade of C AND Undergraduate level BIOL 250 Minimum Grade of C AND Undergraduate level CHEM 120B Minimum Grade of C OR Undergraduate level CHEM 120N Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing

### **NURS 240R - Pathophysiology - 4** FMS

Applies major concepts from sciences and humanities to explain health alterations in individuals of all ages.

**Attributes:** LS

**Prerequisites:** Undergraduate level BIOL 240A Minimum Grade of C AND Undergraduate level BIOL 240B Minimum Grade of C AND Undergraduate level BIOL 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

### **NURS 246 - Fndtn and Health Assessment - 6** FS

Fundamental concepts and health assessment skills used in nursing practice as organized by Gordon's Functional Health Patterns. Includes classroom, lab and practicum experiences.

**Prerequisites:** Undergraduate level NURS 231 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing

### **NURS 299 - Nurs Coop Education Internship - 0** FMS

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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman

### **NURS 308 - Special Topics in Nursing - 1 to 8**

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Selected topics of special interest, such as complex physiologic/psychological concepts, transcultural nursing, nursing history, policy formation, legal aspects of nursing practice, and gerontological nursing. Requires completion of semester 5 nursing courses.

### **NURS 317 - Nurs Sci Vi: Nursing Research - 3**

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Analysis of steps in research process. Emphasize critique and utilization of nursing research findings and participation in research. Requires completion of semester 4 nursing courses.

### **NURS 335R - Health Assessment - 3** FMS

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Health assessment, health literacy for health education and promotion.

**Prerequisites:** Undergraduate level NURS 240R  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

### **NURS 341A - Pharmacology for Nurses - 2** FMS

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Examine Pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan. Course 1 of 2 required in sequence.

**Corequisites:** NURS342, NURS343, NURS352, NURS353

**Restrictions:** Must be enrolled in one of the following Majors: Nursing

### **NURS 341B - Pharmacology for Nurses - 2** FMS

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Examine Pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan. Course 2 of 2 required in sequence.

**Corequisites:** NURS354, NURS355

**Restrictions:** Must be enrolled in one of the following Majors: Nursing

### **NURS 342 - Adult Health 1 - 5** FMS

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Nursing management of human responses to actual and potential health problems that typically occur throughout the adult lifespan.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C AND Undergraduate level NURS 246 Minimum Grade of C

**Corequisites:** NURS341A

### **NURS 343 - Adult Health 2 - 5** FMS

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Nursing management of human responses to actual and potential health problems that typically occur throughout the adult lifespan.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C AND Undergraduate level NURS 246 Minimum Grade of C AND

Undergraduate level NURS 342 Minimum Grade of C

**Corequisites:** NURS341B

### **NURS 350R - Movies and Mental Illness - 3** S

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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 w/a C or better and one of the following: Nursing Major - completion of NURS 352, 343, 354, or 355 with a C or better; OR PSYC Major - Junior or Senior Level status. (NOTE: In CAPP, could not build PSYC Major so built it as completion of any 100-4ZZZ course with D or better.)

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN), Nursing, Psychology

### **NURS 351 - Basic ECG Interpretation - 2** S

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Identify dysrhythmias. Identify waveforms and associated physiologic processes. Analyze and interpret ECG rhythms and dysrhythmias.

**Prerequisites:** Undergraduate level BIOL 240A  
Minimum Grade of C AND Undergraduate level BIOL 240B Minimum Grade of C

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### **NURS 352 - Nurs Care: Young & Mid Aged Ad - 5**

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Nursing management of responses to actual and potential health problems that typically occur during the young and middle-adult years of life.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C

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### **NURS 353 - Care of the Older Age Adults - 5**

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Focuses on the nursing management of human responses to actual and potential health problems that typically occur in older adults.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C

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### **NURS 354 - Care of Wom & Childbearing Fam - 5** FMS

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Nursing management of human responses to common actual and potential health problems of women and childbearing families. Prerequisites: 240, 241, 242, 243, 244, and 245; advisor permit only.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C

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### **NURS 355 - Care of Children & Adolescents - 5** FMS

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Nursing management of human responses to actual and potential health problems that typically occur during childhood and adolescence. Prerequisites: 240, 241, 242, 243, 244, and 245; advisor permit only.

**Prerequisites:** Undergraduate level NURS 240  
Minimum Grade of C

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### **NURS 381 - CI Prac I: Interm Adult Med/Su - 3**

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Application of strategies to restore optimal health in

adult clients. Includes nursing management of common medical therapies and surgical interventions.

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### **NURS 399 - Nurs Coop Ed Internship - 0** FMS

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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.

**Attributes:** COOP

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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### **NURS 416 - Advanced Nurs Ldrshp Role - 3**

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Integration of selected leadership skills (interpersonal, finance, health care economics, and health care informatics) in advanced nursing roles within a variety of health care organizations. Requires admission to graduate CNL program in Nursing or consent of instructor.

**Restrictions:** May not be enrolled as one of the following Majors: Nursing, Nursing (RN)

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### **NURS 430 - Healthy Aging - 3**

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This course examines the physiological changes of aging as a basis for exploring commonly occurring health problems of older adults. Requires consent of department chair or program director.

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### **NURS 431 - Managing Common Health Dis - 3**

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The physiological changes of aging as a basis for exploring commonly occurring health problems of older adults.

**Prerequisites:** Undergraduate level NURS 430  
Minimum Grade of C

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### **NURS 432 - Gerontologic Nurs in the Comm - 3**

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Focus on the older adult in the home and other community settings. Topics covered include aging families, social issues, rural health and services.

**Prerequisites:** Undergraduate level NURS 430

Minimum Grade of C

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### **NURS 433 - End of Life Issues - 3**

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Issues regarding provision of holistic care at the end of life, with emphasis on physiological, psychosocial, spiritual needs of dying elders and caregivers are addressed.

**Prerequisites:** Undergraduate level NURS 430 Minimum Grade of C

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### **NURS 445 - Special Content V: Psych Nurs - 3**

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Strategies related to clients along the mental health/mental illness continuum. Includes the concept of perception, crisis theory, and therapeutic group process. Not for graduate credit. Not for Registered Nurses. Requires completion of all semester 6 nursing courses; or consent of instructor.

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### **NURS 446 - Spec Cont VI: Adv Ad Med/Surg - 3**

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Nursing management to restore optimal health in adult clients with complex multisystem problems. Requires completion of all semester 7 nursing courses.

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### **NURS 472 - Nursing Research - 3**

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FS

Emphasis on research process and interpretation of findings for use as a knowledgeable consumer in developing evidence based professional nursing practice. Prerequisites: NURS 352, NURS 353, NURS 354, and NURS 355 or consent of instructor; advisor permit only.

**Prerequisites:** (Undergraduate level NURS 352 Minimum Grade of C OR Undergraduate level NURS 342 Minimum Grade of C) AND (Undergraduate level NURS 353 Minimum Grade of C OR Undergraduate level NURS 343 Minimum Grade of C) AND Undergraduate level NURS 354 Minimum Grade of C AND Undergraduate level NURS 355 Minimum Grade of C

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### **NURS 472R - Research - 3**

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FMS

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:** Undergraduate level STAT 107 Minimum Grade of C AND Undergraduate level NURS 240R Minimum Grade of C AND Undergraduate level NURS 335R Minimum Grade of C AND Undergraduate level NURS 475R Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

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### **NURS 474 - Care of Persons W/ Mntl Hlth N - 5**

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Nursing management of the person with actual or potential mental health needs. Not for registered nurses, not for graduate credit. Prerequisites: 352, 353, 354, and 355 or consent of instructor, advisor permit only.

**Prerequisites:** (Undergraduate level NURS 352 Minimum Grade of C OR Undergraduate level NURS 342 Minimum Grade of C) AND (Undergraduate level NURS 353 Minimum Grade of C OR Undergraduate level NURS 343 Minimum Grade of C) AND Undergraduate level NURS 354 Minimum Grade of C AND Undergraduate level NURS 355 Minimum Grade of C

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### **NURS 475 - Care of Populations - 4**

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FS

Nursing management of the populations' response to actual and potential health problems. Not for graduate credit. Prerequisites: 352, 353, 354, and 355 or consent of instructor; advisor permit only.

**Attributes:** EH, EUSC

**Prerequisites:** (Undergraduate level NURS 352 Minimum Grade of C OR Undergraduate level NURS 342 Minimum Grade of C) AND (Undergraduate level NURS 353 Minimum Grade of C OR Undergraduate level NURS 343 Minimum Grade of C) AND Undergraduate level NURS 354 Minimum Grade of C AND Undergraduate level NURS 355 Minimum Grade of C

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### **NURS 475R - Populations - 4**

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FMS

Nursing management of the populations' response to actual and potential health problems.

**Attributes:** EH, EUSC, IGR

**Prerequisites:** Undergraduate level ENG 101 Minimum Grade of C AND Undergraduate level ENG 102 Minimum Grade of C AND Undergraduate level NURS 240R Minimum Grade of C AND Undergraduate level NURS 335R Minimum Grade of C AND Undergraduate level RA 101 Minimum Grade of C AND (Undergraduate level SPC 101 Minimum Grade of C OR Undergraduate level SPC 103 Minimum Grade of C OR Undergraduate level ACS 101 Minimum Grade of C OR Undergraduate level ACS 103 Minimum Grade of C) AND (Undergraduate level PHIL 320 Minimum Grade of C OR Undergraduate level PHIL 321 Minimum Grade of C)  
**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

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**NURS 476 - Care of Pers w/ Complex Needs** FS  
**- 5**

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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 graduate credit. Not for Registered Nurses. Prerequisites: 352, 353, 354 and 355; or consent of instructor; advisor permit only.

**Prerequisites:** (Undergraduate level NURS 352 Minimum Grade of C OR Undergraduate level NURS 342 Minimum Grade of C) AND (Undergraduate level NURS 353 Minimum Grade of C OR Undergraduate level NURS 343 Minimum Grade of C) AND Undergraduate level NURS 354 Minimum Grade of C AND Undergraduate level NURS 355 Minimum Grade of C

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**NURS 480R - Nursing Leadership - 4** FMS

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This online course explores the role of the nurse as a leader and manager of nursing resources and professional development in a complex health care environment; includes clinical capstone III.

**Attributes:** EH

**Prerequisites:** Undergraduate level NURS 240R Minimum Grade of C AND Undergraduate level NURS 335R Minimum Grade of C AND Undergraduate level NURS 472R Minimum Grade of C AND Undergraduate level NURS 475R Minimum Grade of C AND Undergraduate level NURS 484R Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

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**NURS 481 - Nurs Leadership and Management - 3** FS

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Role of the nurse leader and manager. Demonstrating the integration of experiences of baccalaureate and professional education through oral and written communication. NOT FOR GRADUATE CREDIT.

**Prerequisites:** Undergraduate level NURS 472 Minimum Grade of C AND Undergraduate level NURS 474 Minimum Grade of C AND Undergraduate level NURS 475 Minimum Grade of C

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**NURS 482 - Transition to Prof Pract Role - 4** FS

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Precepted experiential course exploring the facets of practice as a professional nurse. Responsible for care provision of groups of people. Not for graduate credit. Prerequisites: 352, 353, 354, and 355 or consent of instructor; advisor permit only.

**Prerequisites:** (Undergraduate level NURS 352 Minimum Grade of C OR Undergraduate level NURS 342 Minimum Grade of C) AND (Undergraduate level NURS 353 Minimum Grade of C OR Undergraduate level NURS 343 Minimum Grade of C) AND Undergraduate level NURS 354 Minimum Grade of C AND Undergraduate level NURS 355 Minimum Grade of C

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**NURS 482I - Professional Practice Role - 4**

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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:** Successful completion of NURS 352, 343, 354, 355. GPA of 3.0 or above in nursing courses.

**Restrictions:** Must be enrolled in one of the following Majors: Nursing, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**NURS 483 - Capstone Review Course - 3**

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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.

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN), Nursing, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **NURS 484R - Quality and Safety - 4** FMS

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Focus is on knowledge, skills and abilities required to analyze, develop and implement safe patient care practice. Includes completion of Capstone II.

**Prerequisites:** Undergraduate level NURS 240R Minimum Grade of C AND Undergraduate level NURS 335R Minimum Grade of C AND Undergraduate level NURS 472R Minimum Grade of C AND Undergraduate level NURS 475R Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nursing (RN)

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### **NURS 486 - Clin PracVI: Adv Med Surg Nurs - 3**

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Application of nursing management to restore optimal health in adult clients with complex multisystem problems. Not for Registered Nurses. Not for graduate credit. Prerequisites: Completion of all semester 7 nursing courses.

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### **NURS 490 - School Nurse Internship - 8**

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Focuses on application of nursing process to concepts of health promotion in school settings. Prepares Registered Nurses to qualify for type 73 school nurse certification through Illinois State Board of Education. Not for graduate credit. Prerequisites: Bachelor of Science in Nursing; completion of EPFR 315, SPE 400; completion of or concurrent enrollment in EPFR 320.

**Prerequisites:** Undergraduate level EPFR 315 Minimum Grade of C AND Undergraduate level SPE 400 Minimum Grade of C AND Undergraduate level EPFR 320 Minimum Grade of C (concurrency allowed)

**Corequisites:** EPFR320

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### **NURS 491 - Foundations of Nurs Management - 3**

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Provides an overview of healthcare organizations and roles of nurse managers. Major principles of nursing management are examined. Population-based approach explores community healthcare services. Requires consent of department chair or program director.

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### **NURS 492 - Nurs Management and Leadership - 3**

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Focuses on the knowledge and skills for financial management, budgeting and communication that relate to the role of the nurse manager.

**Prerequisites:** Undergraduate level NURS 491 Minimum Grade of C

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### **NURS 493 - HR Mgmt for Nurse Leaders - 3**

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Examines the knowledge and skills for effective human resource management. Content covers recruitment, hiring, retention, performance appraisals, professional development, conflict management, negotiation and labor relations.

**Prerequisites:** Undergraduate level NURS 491 Minimum Grade of C

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### **NURS 494 - Health Care Fin, Budget & Comm - 3**

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Focuses on the knowledge and skills for financial management, budgeting and communication that relate to the role of the nurse manager.

**Prerequisites:** Undergraduate level NURS 491 Minimum Grade of C

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### **NURS 498 - Independent Study - 1 to 6**

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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 number of earned hours may not exceed 6 hours. Requires consent of instructor.

## Nutrition (NUTR)

### **NUTR 205 - Food Science - 3**

FMS

Basic principles of food preparation. Emphasis on food chemistry and function of ingredients.

**Attributes:** EH

### **NUTR 210 - Food and Culture - 3**

FS

Cultural eating patterns and nutrition-related health problems of various ethnic/racial groups will be explored. Culture and counseling strategies will be emphasized.

**Attributes:** EGC, EH

### **NUTR 250 - Intro to Human Nutrition - 3**

MS

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.

**Attributes:** EH

### **NUTR 319 - Nutrition Biochemistry - 3**

F

Biochemical mechanisms of nutrition and metabolism.

**Prerequisites:** Undergraduate level BIOL 240B Minimum Grade of C AND Undergraduate level NUTR 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 327 - Lifecycle Nutrition - 3**

F

Examine nutritional needs and issues throughout the life span with special emphasis on preconception, pregnancy, lactation, infancy, childhood, adolescence, and aging.

**Prerequisites:** Undergraduate level NUTR 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Nutrition

### **NUTR 355 - Sports Nutr & Supplements - 3**

S

(Crosslisted with 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.

**Prerequisites:** Undergraduate level NUTR 250 Minimum Grade of C OR Undergraduate level NUTR 319 Minimum Grade of C OR Undergraduate level KIN 350 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Nutrition

### **NUTR 375 - Community Nutrition - 3**

Assessment, planning, and evaluation of community nutrition programs and policies using a systems approach.

**Prerequisites:** Undergraduate level NUTR 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Nutrition

### **NUTR 401 - Nutrition Ed 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.

**Prerequisites:** Undergraduate level NUTR 327 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 408 - Food Service Management 1 - 3**

F

Food Sanitation and safety, management of human resources and supervision. Emphasis on applications to health-care facilities.

**Prerequisites:** Undergraduate level NUTR 205 Minimum Grade of C AND Undergraduate level NUTR 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Nutrition

### **NUTR 409 - Large Quantities Food Prep - 3**

F

This course provides the application of concepts and principles of quantity food preparation and service.

**Prerequisites:** Undergraduate level NUTR 205 Minimum Grade of C AND Undergraduate level NUTR 250 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 410 - Food Service Management 2 - 3** <sup>S</sup>

This course studies food service subsystems from an organizational and leadership perspective.

**Prerequisites:** Undergraduate level NUTR 408 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 411 - Intro to Med Nutr Therapy - 3** <sup>F</sup>

Using nutrition care process as a framework, students learn how to provide nutrition services to patients.

**Prerequisites:** Undergraduate level KIN 211 Minimum Grade of C AND Undergraduate level NUTR 401 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 421 - Med Nutr Therapy II - 3**

The second of two courses focused on using the nutrition care process as a framework for learning how to provide nutrition care process as a framework for learning how to provide nutrition services to patients. Advanced topics and diseases will be covered.

**Prerequisites:** Undergraduate level NUTR 411 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition

### **NUTR 464 - Senior Seminar in Nutrition - 3** <sup>S</sup>

In-depth review and application of issues related to the profession of nutrition.

**Restrictions:** Must be enrolled in one of the following Majors: Nutrition, Must be enrolled in one of the following Classifications: Senior with Degree,

Senior

## **Operations Research (OR)**

### **OR 440 - Opr Res: Deterministic Models - 3** <sup>S</sup>

Linear programming, problem formulation, simplex algorithm, transportation and network problems, duality theory, sensitivity theory. Same as IME 415. Prerequisites: Knowledge of a programming language, MATH 250, or consent of instructor.

**Prerequisites:** Undergraduate level MATH 250 Minimum Grade of C

### **OR 441 - Op Res: Stochastic Models - 3** <sup>S</sup>

Probabilistic models, elementary queuing theory with single or multiple server systems, use of queues in facility designs, and elementary decision theory. Markov processes and decision-making. [Dist. NSM] Same as IME 461.

**Prerequisites:** Undergraduate level STAT 380 Minimum Grade of C OR Undergraduate level STAT 480A Minimum Grade of C

### **OR 442 - Oper Res: Simulation - 3** <sup>F</sup>

Design of simulation models using a high level simulation programming language. Applications in production, inventory, queuing, and other models. Same as IE 468. Prerequisites: IE 365 or IE 461 or OR 441 or STAT 380 or consent of instructor.

**Prerequisites:** Undergraduate level OR 441 Minimum Grade of C OR Graduate level OR 441 Minimum Grade of C OR Undergraduate level STAT 380 Minimum Grade of C OR Undergraduate level IE 461 Minimum Grade of C OR Graduate level IE 461 Minimum Grade of C OR Undergraduate level IME 461 Minimum Grade of C OR Graduate level IME 461 Minimum Grade of C

### **OR 495 - Independent Study - 1 to 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. Requires written consent of adviser and instructor.

## Public Admin and Pol Analysis (PAPA)

### **PAPA 410 - Introduction to Microcomputing - 1**

Introduction to personal computers and development of skills using word processing and database applications common to the public sector. Course replaces: PAPA 516 and PAPA 556.

### **PAPA 411 - Spreadsheet Applications - 1** FMS

Development of skills in spreadsheet construction and public sector applications. Course replaces: PAPA 516 and PAPA 556.

**Corequisites:** PAPA420

### **PAPA 412 - Introduction to SPSS - 1**

Skills in using SPSS-PC: importing files; data entry; data analysis; exporting files. Prerequisite: Concurrent enrollment in PAPA 420 or consent of instructor.

**Corequisites:** PAPA420

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Unclassified Graduate, Junior, Sophomore

### **PAPA 420 - Quantitative Analysis - 3** FMS

Research design; descriptive statistics; hypothesis testing; nonparametric statistics; analysis of variance; correlation; regression.

**Corequisites:** PAPA411

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Unclassified Graduate, Junior, Sophomore

### **PAPA 499 - Seminar in Public Admin - 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.

**Attributes:** DSS

## Public Health (PBHE)

### **PBHE 111 - Personal Health - 3** MS

This freshman seminar will introduce students to basic concepts in personal health and wellness.

**Attributes:** EH

### **PBHE 210 - Sexual Health - 3** MS

Surveys the dynamics of sexual health as related to overall health. Identifies and examines basic issues in human sexuality as relating to larger society.

**Attributes:** EH

### **PBHE 213 - 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 minor only.

**Attributes:** EH

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Public Health

### **PBHE 220 - Drug Use and Abuse - 3** M

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.

**Attributes:** EH

### **PBHE 230 - Emotional Health - 3** MS

An introduction to a variety of types of positive and negative emotions and their determinants in addition to their contributions to an individual's overall well-being.

**Attributes:** EH

### **PBHE 240 - Intro to Applied Nutrition - 3**

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.

**Attributes:** EH

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**PBHE 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.

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**PBHE 305 - Foundtns of Community Health - 3** MS

History and philosophy of community health; theory and practice of community health education programs; role of the professional in various health promotion settings.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education,Public Health, May not be enrolled as the following Departments:

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**PBHE 353 - Public Health Data Analysis - 3** FS

Basic concepts of biostatistics, descriptive and inferential statistics and their interpretation and application in resolving real-world public health issues, and hands-on practice of statistic software.

**Prerequisites:** Undergraduate level STAT 107 Minimum Grade of C OR Undergraduate level STAT 244 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Health Education,Public Health

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**PBHE 355 - Introduction to Public Health - 3** S

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.

**Prerequisites:** Undergraduate level HED 111 Minimum Grade of D OR Undergraduate level PBHE 111 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Exercise and Wellness,Health Education,Health Education,Kin. - Exercise Physiology,Kinesiology,Kin. -

Pedagogy/Administration,Kin. - Sport and Exercise Bhvr.,Kinesiology,Kinesiology,Public Health

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**PBHE 363 - Pub Hlth Policy & Mgmt - 3** M

Review, analyze, and formulate a public health related policy. A model for an individual, community, and society to make informed consumer health related decisions.

**Prerequisites:** Undergraduate level HED 111 Minimum Grade of D OR Undergraduate level PBHE 111 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education,Public Health

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**PBHE 370 - Instr Stats in Community Hlth - 3** S

Strategies for effectively delivering health education in community settings. Analysis of creative technologies, resources, and programs.

**Prerequisites:** Undergraduate level HED 305 Minimum Grade of D OR Undergraduate level PBHE 305 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education,Public Health

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**PBHE 375 - Research Methods in Health - 3** MS

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.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education,Public Health

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**PBHE 405 - Health Coaching - 3** S

Theories of health behavior and behavior change. Exploration of helping role as it relates to health behavior, health assessment analysis, decision making, problem solving, and referral skills.

**Prerequisites:** Undergraduate level HED 305 Minimum Grade of D OR Undergraduate level PBHE



305 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Public Health

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**PBHE 410 - Environment Health - 3** MS

People's relationship with their environment; impact relationship has on status of one's health; and individual and community roles in promotion of environmental health. Not for graduate credit.

**Prerequisites:** Undergraduate level HED 111 Minimum Grade of D OR Undergraduate level PBHE 111 Minimum Grade of D OR Undergraduate level HED 201 Minimum Grade of D OR Undergraduate level PBHE 201 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Health Education, Health Education, Public Health

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**PBHE 420 - 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.

**Prerequisites:** Undergraduate level HED 305 Minimum Grade of D OR Undergraduate level PBHE 305 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Public Health

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**PBHE 455 - Intro to Epidemiology - 3** MS

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.

**Prerequisites:** Undergraduate level PBHE 353 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Healthcare Informatics, Health Education, Health Education, Public Health

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**PBHE 462 - Special Tpcs in Public Health - 1 to 3** M

Relevant health issues. Topic and credit hours announced. May be repeated to a maximum of 6 hours so long as no topic is repeated.

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Health Education, Public Health

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**PBHE 464 - Dying Death in Contemp Society - 3**

Analyzes the relationship between death and health with emphasis on the physiological, medical, psychological, legal, and consumer aspects of dying in contemporary America.

**Restrictions:** Must be enrolled in one of the following Majors: Health Education, Health Education, Kin. - Exercise Physiology, Kinesiology, Kin. - Pedagogy/Administration, Kin. - Sport and Exercise Bhvr., Kinesiology, Kinesiology, Public Health, May not be enrolled as the following Departments:

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**PBHE 470 - Sexuality Education - 3**

Individual, family, school, and community concerns and approaches. Physiological, psychosocial and environmental factors affecting sexuality as related to learning experience.

**Prerequisites:** (Undergraduate level HED 210 Minimum Grade of D OR Undergraduate level PBHE 210 Minimum Grade of D) AND (Undergraduate level HED 370 Minimum Grade of D OR Undergraduate level PBHE 370 Minimum Grade of D)

**Restrictions:** Must be enrolled in one of the following Majors: Health Education, Health Education, Public Health

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**PBHE 489 - Ind Study in Public Health - 1 to 3** S

Independent projects or readings under the supervision of a public health faculty member.

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**PBHE 490 - Program Planning in Comm Hlth - 3** M

Principles and approaches of planning programs within the community. Examination of program

planning models. Application to various health education settings.

**Prerequisites:** (Undergraduate level HED 370 Minimum Grade of D OR Undergraduate level PBHE 370 Minimum Grade of D) AND (Undergraduate level HED 375 Minimum Grade of D OR Undergraduate level PBHE 375 Minimum Grade of D) AND Undergraduate level PBHE 305 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Public Health, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### **PBHE 491 - Prgm Impl & Eval in Comm Hlth - 3**

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Principles and practices of health education program implementation and evaluation. Application of selected models and assessment strategies of community health education.

**Prerequisites:** Undergraduate level PBHE 490 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Public Health, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### **PBHE 495 - Grant Writing in Public Health - 3** <sup>MS</sup>

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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. Prerequisite: PBHE 491 with a D or better or taken concurrently.

**Prerequisites:** (Undergraduate level HED 491 Minimum Grade of D (concurrency allowed) OR Undergraduate level PBHE 491 Minimum Grade of D (concurrency allowed))

### **PBHE 498 - Senior Professional Seminar - 3** <sup>S</sup>

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Discussion of topics related to health education; ethics, professional responsibilities, preparation, and certification and future trends. Completion of portfolio and senior assignment required.

**Prerequisites:** (Undergraduate level HED 491 Minimum Grade of D (concurrency allowed) OR Undergraduate level PBHE 491 Minimum Grade of D (concurrency allowed))

### **PBHE 499 - Internship in Public Health - 3 to 6** <sup>MS</sup>

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Supervised experiences in health agencies, clinics, government agencies and other professional settings. Not for graduate credit. Prerequisite: Consent of instructor and program director and PBHE 498 (formerly HED 498) with minimum grade of D or concurrent enrollment.

**Prerequisites:** Undergraduate level HED 498 Minimum Grade of D (concurrency allowed) OR Undergraduate level PBHE 498 Minimum Grade of D (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Health Education, Public Health, May not be enrolled as the following Departments:

## **Pharmacy Elective (PHEL)**

### **PHEL 400 - Intro to Organic Medicinal Chem - 3**

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Introductory course in medicinal chemistry which addresses the relationship of chemical structure to biological activity.

**Attributes:** ELEC

**Prerequisites:** Undergraduate level CHEM 241A Minimum Grade of C AND Undergraduate level CHEM 241B Minimum Grade of C AND (Undergraduate level CHEM 351 Minimum Grade of C OR Undergraduate level CHEM 451A Minimum Grade of C) AND Undergraduate level BIOL 150 Minimum Grade of C AND Undergraduate level BIOL 151 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Levels: Professional

### **PHEL 402 - Intro Pharmaceutical Sciences - 3**

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The purpose of this course is to introduce the student to the core principles in the pharmaceutical sciences: Medicinal Chemistry, Pharmacology, Pharmaceutics, and Drug Therapy. Prerequisite:

CHEM 241A with minimum grade of C or concurrent enrollment.

**Prerequisites:** Undergraduate level CHEM 241A  
Minimum Grade of C (concurrency allowed)

**Restrictions:** May not be enrolled as the following  
Levels: Professional

## Philosophy (PHIL)

### PHIL 111 - Introduction to Philosophy - 3 <sup>FS</sup>

Eras, branches and problems of philosophy, including metaphysics, theory of knowledge, and ethics. [IAI Course No. H4 900]

**Attributes:** BHUM, IFAH

### PHIL 212 - Inductive Logic - 3

An introduction to inductive logic. Common elements of inductive logic include; casual hypotheses; arguments from analogy; testimony, and probability.

**Attributes:** FRA

### PHIL 213 - Deductive Logic - 3 <sup>S</sup>

Propositional and predicate logic with quantifiers. Includes translation into symbolic logic, truth tables, derivations, relations, and identity.

**Attributes:** BICS, DFAH

### PHIL 222 - Environmental Ethics - 3

Ethical issues arising from human interaction with the natural environment.

**Attributes:** BHUM

### PHIL 225 - Contemporary Moral Issues - 3 <sup>S</sup>

This course explores contemporary moral controversies such as abortion, euthanasia, torture, capital punishment, international justice, and sexual morality.

**Attributes:** BHUM

### PHIL 226 - Philosophy and Film - 3

Analysis of selected films with respect to philosophical issues and aesthetic, moral,

metaphysical, and epistemic concerns.

**Attributes:** BHUM

### PHIL 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.

**Attributes:** BHUM

### PHIL 230 - Atheism: Philosoph Analysis - 3

An analysis of positive and negative atheism, its rationale, and its implications.

**Attributes:** BHUM, DFAH

### PHIL 231 - Philosophy, Sci, & Religion - 3

An examination of historically and conceptually significant interactions between philosophy, science, and religion. Addresses issues such as those in cosmology, evolutionary biology, and neuroscience.

**Attributes:** BHUM, DFAH

### PHIL 233 - Philosophies & Diverse Culture - 3 <sup>M</sup>

Representative thinkers, texts, and movements outside the western philosophical tradition, e.g., from India, East Asia, Africa, Latin America and the Middle East. [IAI Course No. H4 903N]

**Attributes:** BHUM, DFAH, EGC, IC

### PHIL 234 - World Religions - 3 <sup>FM</sup>

Historical and comparative study of various religions, with particular attention to such non-Christian faiths as Hinduism, Buddhism, Confucianism, Taoism, and Islam.

**Attributes:** BHUM, EGC, IC

### PHIL 242 - Philosophy of Technology - 3

Reflects on the general nature, orientation, and development of technology, and challenges assumptions about its intrinsic value and relationship to society.

**Attributes:** BHUM, DFAH

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**PHIL 300 - Classical Greek Philosophy - 3**

Major philosophers of the Greek Classical Period, including Plato and Aristotle.

**Attributes:** BHUM, DFAH, EGC, IC

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**PHIL 301 - Medieval Western Philosophy - 3**

Major thinkers and movements from c. 4th century through 16th century.

**Attributes:** BHUM, DFAH, EGC, IC

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**PHIL 302 - Hellenistic Philosophy - 3**

Major philosophical schools of the Greek and Roman Hellenistic period: Stoicism, Epicureanism, and Skepticism.

**Attributes:** BHUM, EGC, IC

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**PHIL 303 - 19th Century Western Phil - 3**

Major thinkers and movements of 19th century.

**Attributes:** BHUM, DFAH, EGC, IC

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**PHIL 304 - Eighteenth Century Philosophy - 3**

Major thinkers and movements from 18th century Europe.

**Attributes:** BHUM, DFAH, ELEC

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**PHIL 305 - Existentialism - 3**

A study of philosophical problems concerning the meaning of life. Topics include meaning, freedom, consciousness, subjectivity, human existence, fear, death, and moral tradition.

**Attributes:** BHUM, DFAH, EGC

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**PHIL 306 - American Philosophy - 3**

Major thinkers and movements; e.g. Puritanism; revolution and democracy; transcendentalism; pragmatism; Royce; Santayana; Whitehead; and contemporary criticism.

**Attributes:** BHUM, DFAH

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**PHIL 307 - Seventeenth Century Philosophy - 3**

Major thinkers and movements from 17th century Europe.

**Attributes:** BHUM, DFAH, ELEC

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**PHIL 308 - 20th Century European Phil - 3**

Representative thinkers of contemporary continental philosophy, such as Husserl, Heidegger, Sartre, Beauvoir, Merleau-Ponty, Ricoeur, Derrida, Foucault and others.

**Attributes:** BHUM, DFAH, EGC, IC

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**PHIL 309 - 20th Century Analytic Phil - 3**

Representative thinkers of analytic movement, such as Frege, Moore, Russell, Ryle, Wittgenstein, and others. [Dist. FAH]

**Attributes:** BHUM, DFAH

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**PHIL 310 - Theories of Knowledge - 3**

Conceptions, sources, limits, and methods of knowing.

**Attributes:** BHUM, DFAH

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**PHIL 314 - Philosophy of Science - 3**

Investigation of the nature and methods of physical and social science, and their importance for individuals and society.

**Attributes:** BHUM, DFAH

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**PHIL 316 - Philosophy of Biology - 3**

Examines philosophical issues that arise from within biology, and the implications biology has on our understanding of ourselves as humans.

**Attributes:** BHUM, DFAH

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**PHIL 320 - Ethics - 3**

Theories of virtue, obligation, and value; discussions of individual and social morality. [IAI Course No. H4 904]

FS

**Attributes:** BHUM, DFAH

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**PHIL 321 - Ethics in the Medical Comm - 3** FMS

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Ethical issues arising in health care contexts and practices.

**Attributes:** BHUM, DFAH

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**PHIL 323 - Eng, Ethics, & professionalism - 3** FMS

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Safety, liability, codes, employment relations, public responsibility, and other professional engineering issues are addressed, employing methods of argument analysis, evaluation, and construction.

**Attributes:** BHUM, DFAH, FRA, SKLG

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**PHIL 325 - Philosophy of Art - 3**

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Significance of art as human activity; nature and standards as evidenced in problems of criticism; and relation of art to theory and knowledge.

**Attributes:** BHUM, DFAH

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**PHIL 330 - Metaphysics - 3**

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Problems such as personal identity, mind body relationship, causality, and nature of reality.

**Attributes:** BHUM, DFAH

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**PHIL 333 - Philosophy of Religion - 3**

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Problems in epistemology, metaphysics, psychology, and sociology of religion. Questions about divine existence, mystical experience, human suffering, and immortality. [IAI Course No. H4 905]

**Attributes:** BHUM, DFAH

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**PHIL 335 - Islamic Thought - 3**

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A scholarly examination of theological and philosophical ideas within the Islamic tradition, from its origins to contemporary schools of thought.

**Attributes:** BHUM, DFAH, EGC, IC

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**PHIL 336 - Christian Thought - 3**

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Scholarly treatment of historical development of

Christian doctrines and thought.

**Attributes:** BHUM, DFAH, EGC

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**PHIL 337 - American Indian Thought - 3**

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Investigation of philosophical issues expressed through oral tradition and cultures of selected indigenous American traditions and in writings of contemporary American Indian thinkers.

**Attributes:** BHUM, DFAH, EUSC, IGR

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**PHIL 340 - Social & Political Philosophy - 3**

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Philosophical problems of social and political theory and conduct.

**Attributes:** BHUM, DFAH, EGC

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**PHIL 343 - Philosophy of the Law - 3**

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Philosophical discussion of legal problems and issues in contemporary society such as rights, justice, freedom, responsibility, and punishment. Cross-listed with POLS 391.

**Attributes:** BHUM, DFAH

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**PHIL 344 - Women and Values - 3**

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Examines women's philosophical contributions to traditional areas of value theory including ethics; and social, legal and political philosophies of art and religion. Prerequisite: one prior PHIL or WMST course.

**Attributes:** BHUM, DFAH, EUSC, IGR

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**PHIL 345 - Women, Knowledge & Reality - 3**

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The course surveys various feminist theories of knowledge, with particular attention to science and how gender influences our claims to knowledge. Same as WMST 345

**Attributes:** BHUM, DFAH, EUSC

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**PHIL 346 - Feminist Theory - 3**

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Social philosophy from feminist perspective. Major theoretical works of women's movement. Cross-listed with WMST 346

**Attributes:** BHUM, DFAH, EUSC, IGR

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**PHIL 347 - Philosophy Of Race - 3**

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Conceptual analysis of racism, the metaphysics of race, and the moral and political challenges posed by a racialized social order.

**Attributes:** BHUM, DFAH, EUSC, IGR

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**PHIL 348 - Law and Society - 3**

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Examines the nexus of culture, dispute management, and law. We will explore law as a social construct, focusing on law's everyday impact on citizens' lives. Crosslisted with CJ 348 and POLS 392.

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**PHIL 350 - Philosophy of Mind - 3**

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This course will explore the relationship between the common sense view and the scientific view of such mental phenomena as thought, free will, and consciousness.

**Attributes:** BHUM, DFAH

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**PHIL 355 - Philosophy of Language - 3**

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A study philosophical problems concerning language. Includes topics such as meaning, reference, truth, semantic puzzles, speech acts and metaphor.

**Attributes:** BHUM

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**PHIL 390 - Philosophy Here and Abroad - 3**

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Variable content course with a study abroad component. Participation in the study abroad is required for completing the course. Repeatable to 6 credit hours. Requires consent of instructor.

**Attributes:** BHUM, DFAH, EGC

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**PHIL 411 - Advanced Logic - 3**

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Metatheory of first order logic and modal logic. May include other topics in advanced logic such as set theory, probability theory, or fuzzy logic.

**Attributes:** BICS, DFAH

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**PHIL 440 - Classical Political Theory - 3**

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Works of major political thinkers from ancient times to renaissance, including Plato, Aristotle, St. Augustine, St. Thomas, and Machiavelli. Same as POLS 484

**Attributes:** BHUM, DFAH, EGC, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**PHIL 441 - Modern Political Theory - 3**

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Works of major political thinkers from renaissance to present, including Hobbes, Locke, Rousseau, Hegel, Marx, Mill and Nietzsche. Same as POLS 485

**Attributes:** BHUM, DFAH, EGC, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**PHIL 480 - Senior Assignment - 3**

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Independent research on philosophical topics. Required of all Philosophy majors.

**Restrictions:** Must be enrolled in one of the following Majors: Philosophy, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**PHIL 481 - Media Ethics - 3**

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Critical examination and analysis of main values, issues, and arguments associated with media functions, performance, business practices, and public perceptions of the media.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**PHIL 490 - Philosophy Seminar - 3**

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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.

**Prerequisites:** 15 hours of PHIL 100-400 level

### **PHIL 495 - Independent Readings - 1 to 3**

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Independent study on tutorial basis. Undergraduate students normally limited to 3 hours; graduate students normally limited to 9 hours. Requires consent of department chair or program director.

### **PHIL 496 - Topics in Ethics - 3**

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Variable content course on topics in ethics. May include topics in normative ethics, metaethics, or applied ethics. May be repeated for maximum of 9 hours.

**Attributes:** BHUM, DFAH

### **PHIL 498 - Legal Theory - 3**

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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. Cross-listed with POLS 498.

**Attributes:** DFAH, DSS, SS

**Prerequisites:** Undergraduate level POLS 390 Minimum Grade of D OR Undergraduate level PHIL 111 Minimum Grade of D

## **Physics (PHYS)**

### **PHYS 111 - Concepts of Physics - 3**

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MS

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: 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.

**Attributes:** BPS, INSM

**Prerequisites:** Undergraduate level AD 095 Minimum Grade of C AND Undergraduate level AD 085 Minimum Grade of C

### **PHYS 112 - Conceptual Physics Laboratory - 1**

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Weekly introductory laboratory dealing with mechanics, heat, electricity, sound and light.

Emphasis placed on measurements and data analysis. Prerequisite: PHYS 111 with minimum grade of C or concurrent enrollment.

**Attributes:** BPS, DNSM, EL, LNSM

**Prerequisites:** Undergraduate level PHYS 111 Minimum Grade of D (concurrency allowed)

**Corequisites:** PHYS111

### **PHYS 115 - Energy and the Environment - 3**

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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. 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.

**Attributes:** BPS, DNSM

### **PHYS 116 - Music and Acoustics - 3**

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Vibrations; nature and propagation of sound waves; musical pitch and intervals; tone quality, analysis, and synthesis; instruments; speech; ears and hearing; psychological aspects; and 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.

**Attributes:** BPS, DNSM

### **PHYS 117 - Light and Color - 3**

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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.

**Attributes:** BPS, DNSM

### **PHYS 118 - Astronomy - 3**

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FMS

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.

**Attributes:** BPS, DNSM

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### **PHYS 118L - Astronomy Laboratory - 1**

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An experiential laboratory course utilizing both software and real-time observation concerning astronomical objects.

**Attributes:** BPS, EL, INSM

**Corequisites:** PHYS118

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### **PHYS 120 - Frontiers in Physics - 3**

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F

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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level MATH 125 Minimum Grade of C

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### **PHYS 131 - College Physics I - 4**

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FMS

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.

**Attributes:** BPS, INSM

**Prerequisites:** Undergraduate level MATH 125 Minimum Grade of D OR Undergraduate level MATH 145 Minimum Grade of D OR Undergraduate level MATH 150 Minimum Grade of D OR Undergraduate level MATH 152 Minimum Grade of D

**Corequisites:** PHYS131L

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### **PHYS 131A - College Physics - 5**

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Mechanics; fluids; heat. Designed to meet premedical requirements and needs of students majoring in biological sciences. Includes weekly lab.

**Attributes:** EL, INSM, LNSM, PS

**Prerequisites:** Undergraduate level MATH 125 Minimum Grade of D OR Undergraduate level MATH

150 Minimum Grade of D OR Undergraduate level MATH 152 Minimum Grade of D OR Undergraduate level MATH 250 Minimum Grade of D

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### **PHYS 131B - College Physics - 5**

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Designed to meet premedical requirements and needs of students majoring in biological sciences. Waves; sound; electrostatics; circuits; magnetism; electromagnetic waves, optics; modern physics. Includes weekly lab.

**Attributes:** DNSM, EL, LNSM, PS

**Prerequisites:** Undergraduate level PHYS 131A Minimum Grade of D OR (Undergraduate level PHYS 131 Minimum Grade of D AND Undergraduate level PHYS 131L Minimum Grade of D)

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### **PHYS 131L - College Physics I Laboratory - 1**

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FMS

This course is a laboratory for College Physics I. Topics include physical measurements, data analysis, lab reporting and error analysis.

**Attributes:** BPS, EL, INSM, LNSM

**Prerequisites:** Undergraduate level MATH 125 Minimum Grade of D OR Undergraduate level MATH 145 Minimum Grade of D OR Undergraduate level MATH 150 Minimum Grade of D OR Undergraduate level MATH 152 Minimum Grade of D

**Corequisites:** PHYS131

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### **PHYS 132 - College Physics II - 4**

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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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 131 Minimum Grade of D OR Undergraduate level PHYS 131A Minimum Grade of D

**Corequisites:** PHYS132L

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### **PHYS 132L - College Physics II Laboratory - 1**

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FS

A lab consisting of experiments designed to complement PHYS 132: physical measurements, data



analysis, presentation and error analysis.

**Attributes:** BPS, DNSM, EL, LNSM

**Prerequisites:** Undergraduate level PHYS 131L  
Minimum Grade of D OR Undergraduate level PHYS 131A Minimum Grade of D

**Corequisites:** PHYS132

### **PHYS 140 - Introduction to Physics - 2** FS

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. Prerequisite: MATH 150 with a C or better or concurrent enrollment.

**Attributes:** BPS, INSM

**Prerequisites:** Undergraduate level MATH 150  
Minimum Grade of C (concurrency allowed)

### **PHYS 141 - Physics I for Engineering - 3** FS

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.

**Attributes:** BPS, INSM

**Prerequisites:** ACT Math 28 OR Undergraduate level PHYS 140 Minimum Grade of C OR Physics Readiness Exam Score 09 OR MATH TEST SCORE 32.5

**Corequisites:** PHYS151L

### **PHYS 142 - Physics II for Engineering - 3** S

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.

**Attributes:** BPS, DNSM

**Prerequisites:** (Undergraduate level PHYS 141 Minimum Grade of C OR Undergraduate level PHYS 151 Minimum Grade of C) AND Undergraduate level MATH 152 Minimum Grade of C AND Undergraduate level PHYS 151L Minimum Grade of C

**Corequisites:** PHYS152L

### **PHYS 151 - University Physics I - 4** FS

Kinematics; dynamics; planar motion; work and energy; momentum; rotational motion; gravitation; and fluids. Prerequisites: MATH 152 with minimum grade of D or concurrent enrollment and concurrent enrollment in PHYS 151L.

**Attributes:** BPS, INSM

**Prerequisites:** Undergraduate level MATH 152  
Minimum Grade of C (concurrency allowed)

**Corequisites:** PHYS151L

### **PHYS 151L - University Physics I Lab - 1** FMS

Physics measurements; data analysis and presentation, error analysis. Velocity; acceleration; force and moments; work and kinetic energy, and fluids. Prerequisite: PHYS 151 and PHYS 211A with minimum grade of D (concurrent enrollment allowed in PHYS 151).

**Attributes:** BPS, EL, INSM, LNSM

**Prerequisites:** Undergraduate level PHYS 151  
Minimum Grade of D (concurrency allowed) OR Undergraduate level PHYS 141 Minimum Grade of D (concurrency allowed) OR Undergraduate level PHYS 211A Minimum Grade of D

### **PHYS 152 - University Physics II - 4** FS

Bulk properties of matter; oscillations and waves; electric charge; electric fields; Gauss' law; potentials; circuits; magnetic fields; and electromagnetic waves.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level MATH 152  
Minimum Grade of C AND (Undergraduate level PHYS 151 Minimum Grade of C OR Undergraduate level PHYS 211A Minimum Grade of C)

**Corequisites:** PHYS152L

### **PHYS 152L - University Physics II Lab - 1** FMS

Physics measurements; data analysis and presentation; error analysis; thermal and bulk properties of matter; simple harmonic motion and waves; electromagnetism; simple circuits; and optics.

**Attributes:** BPS, DNSM, EL, LNSM

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**PHYS 192 - Fresh Project Biomed Physics - 1 to 3**

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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.

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**PHYS 193 - Fresh Project in Photonics - 1 to 3**

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With guidance, a freshman investigatory or independent study project in photonics. Open to all students of other disciplines and to 100-level physics students.

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**PHYS 196 - Freshman Project in Astronomy - 1 to 3**

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With guidance, a freshman investigatory or independent project in astronomy. Open to all students of other disciplines and to 100-level physics students.

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**PHYS 197 - Freshman Project Exp Physics - 1 to 3**

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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.

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**PHYS 198 - Freshman Project Theor Physics - 1 to 3**

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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.

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**PHYS 201 - University Physics III - 4**

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Electromagnetic waves. Physical optics: interference and diffraction. Introductory special relativity; thermodynamic laws; Maxwell Boltzmann distributions; equipartition theorem; black-body radiation; and evidence for photons. Bohr atom and matter waves.

**Attributes:** BPS, DNSM

**Prerequisites:** (Undergraduate level PHYS 151 Minimum Grade of C OR Undergraduate level PHYS 211A Minimum Grade of C) AND (Undergraduate level PHYS 152 Minimum Grade of C OR Undergraduate level PHYS 211B Minimum Grade of C)

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**PHYS 201L - University Physics III Lab - 1**

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Laboratories covering select topics from Electromagnetic waves, physical optics, introductory special relativity, thermodynamic laws, and introductory quantum physics.

**Attributes:** BPS, DNSM, EL, LNSM

**Corequisites:** PHYS201

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**PHYS 208 - Space Physics - 3**

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Mechanics of orbital and sub-orbital flight. Physical chemical and geologic characteristics of solar system objects determined by exploration and remote sensing.

**Attributes:** DNSM, PS

**Prerequisites:** Complete MATH 150; AND PHYS 131/131L or 206A or 131A; AND PHYS 132/132L or 206B or 131B.

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**PHYS 230 - Planetary Astronomy - 3**

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Orbital mechanics, telescopes, physical processes, atmospheres, planets, moons, ring systems, outer Solar System, comets, Kuiper belt, formation of planetary systems, extra-solar planets.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 132 Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 240 - Intro Biomedical Physics - 3**

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Physics principles applied to human biology and medicine. Applications of mechanics, thermodynamics, electromagnetism; properties of nerves, membranes and fluids; ultrasound, x-ray, nuclear medicine and MRI.

**Attributes:** BLS, BPS, DNSM

**Prerequisites:** (Undergraduate level PHYS 132

Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C) AND Undergraduate level MATH 150 Minimum Grade of C

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**PHYS 251 - Waves - 4**

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Oscillations, linear approximations. Normal Modes, Fourier analysis. Standing waves, travelling waves, reflection, transmission, sound, electromagnetic waves. Wave packets, bandwidth theorem. Introduction to Fourier Transforms, applications.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 131B Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C OR Undergraduate level PHYS 211B Minimum Grade of C OR Undergraduate level PHYS 206B Minimum Grade of C OR (Undergraduate level PHYS 132 Minimum Grade of C AND Undergraduate level PHYS 132L Minimum Grade of C)

**Corequisites:** MATH250

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**PHYS 292 - Soph Project in Biomed Physics - 1 to 3**

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With guidance, a sophomore investigatory or independent study project in bio- or biomedical physics.

**Prerequisites:** Undergraduate level PHYS 132 Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 293 - Soph Project in Photonics - 1 to 3**

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With guidance, a sophomore investigatory or independent study project in photonics.

**Prerequisites:** Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 296 - Sophomore Project in Astronomy - 1 to 3**

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With guidance, a sophomore investigatory or independent study project in astronomy.

**Prerequisites:** Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 297 - Soph Project in Expt'l Physics - 1 to 3**

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With guidance, a sophomore investigatory or independent study project in experimental physics.

**Prerequisites:** Undergraduate level PHYS 132 Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 298 - Soph Project Theor Physics - 1 to 3**

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With guidance, a sophomore investigatory or independent study project in theoretical physics.

**Prerequisites:** Undergraduate level PHYS 132 Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C

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**PHYS 303 - Thermal Physics - 3**

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Introduction to thermodynamics: fluids; kinetic theory; statistical distribution functions; and applications. [Dist. NSM] Prerequisites: PHYS 211B, MATH 250.

**Attributes:** DNSM, PS

**Prerequisites:** (Undergraduate level PHYS 211B Minimum Grade of D OR Undergraduate level PHYS 152 Minimum Grade of D) AND Undergraduate level MATH 250 Minimum Grade of D

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**PHYS 304 - Modern Physics - 4**

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F

History of Quantum Physics. Matter waves, uncertainty principle, Schroedinger solutions for confined particles, hydrogen atom. Atomic, nuclear and solid-state physics. Applications include lasers and semiconductors.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C

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**PHYS 312 - Intermediate Physics Lab - 3**

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Experimental methods in modern physics: Modern experimental techniques; computer aided data acquisition; numerical methods; detectors and sensors; data and error analysis. Prerequisite: PHYS 302 and PHYS 304 with minimum grade of D

(concurrent enrollment allowed in PHYS 302).

**Attributes:** EL, PS

**Prerequisites:** Undergraduate level PHYS 304 Minimum Grade of D (concurrency allowed) OR Undergraduate level PHYS 302 Minimum Grade of D

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### **PHYS 314 - Mod Data Acq & Analys in Phys - 3**

A course in the use of modern computer-aided data acquisition and analysis in physics.

**Attributes:** BPS, DNSM, EL

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 318 - Theory & Appl of Elect Measure - 3**

Principles of modern electronic measurements and computer interfacing techniques. Transistor circuits, digital electronics, OP amps, and sensors. Digital analog and analog digital conversions, computer aided data acquisition. Includes weekly two-hour laboratory.

**Attributes:** BPS, DNSM, EL, LNSM

**Prerequisites:** Undergraduate level PHYS 132 Minimum Grade of C OR Undergraduate level PHYS 152 Minimum Grade of C

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### **PHYS 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.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C

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### **PHYS 321 - Intro to Classical Mechanics - 4** <sup>F</sup>

Newtonian mechanics in Cartesian, non-Cartesian

coordinate systems. Conservative fields, conservation laws. Forced oscillations, resonance. Introduction to Lagrangian mechanics. Non-inertial reference frames. Central Forces, orbital dynamics.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level MATH 250 Minimum Grade of C

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### **PHYS 323 - 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.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level MATH 305 Minimum Grade of C

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### **PHYS 340 - Biophysics 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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 240 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level CHEM 241A Minimum Grade of C

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### **PHYS 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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 230 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 375 - Seminar - 1**

Selected topics in theories and applications. May be repeated to a maximum of 3 hours; pass/no credit only. Requires consent of instructor.

**Attributes:** PS

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### **PHYS 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.

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 390 - Junior Physics Honors - 3**

Directed by student's physics honors program adviser in independent study format on topics chosen jointly by student and adviser. [Dist. NSM] Prerequisites: PHYS 302, PHYS 308, admission to the Physics Honors program.

**Attributes:** DNSM, PS

**Prerequisites:** (Undergraduate level PHYS 302 Minimum Grade of D OR Undergraduate level PHYS 304 Minimum Grade of D) AND Undergraduate level PHYS 308 Minimum Grade of D

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### **PHYS 392 - Junior Project Biomed Physics - 1 to 3**

With guidance, a junior investigatory or independent study project in bio- or biomedical physics.

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 240 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 393 - Junior Project in Photonics - 1 to 3**

With guidance, a junior investigatory or independent study project in photonics and/or laser physics.

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 410 Minimum Grade of C

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### **PHYS 396 - Junior Project in Astronomy - 1 to 3**

With guidance, a junior investigatory or independent study project in astronomy/astrophysics.

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 230 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 397 - Junior Project in Exp Physics - 1 to 3**

With guidance, a junior project in experimental physics. May be repeated for a maximum of 6 hours.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

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### **PHYS 398 - Jnior Proj in Theoretical Phys - 1 to 3**

With guidance, a junior project in theoretical physics. May be repeated for a maximum o 6 hours.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C

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### **PHYS 405A - Intro ElectroMagnetic Fld Thry - 3**

Vector treatment of the theory. (A) Electrostatics in vacuum and in matter; steady currents. [Dist. NSM]

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level PHYS 321 Minimum Grade of C OR Undergraduate level PHYS 323 Minimum Grade of C

### **PHYS 405B - Intro ElectroMagnetic Fld Thry - 3**

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Vector treatment of the theory. Magnetism; magnetic materials; electromagnetic radiation. [Dist. NSM] Prerequisites: PHYS 405A.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level PHYS 405A Minimum Grade of C

### **PHYS 406 - Electromagnetic Fields - 4**

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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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 152 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Computer Science, Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering, Physics

### **PHYS 410 - Optics - 3**

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Nature of light; photometric quantities; geometrical optics; interference and diffraction; polarization; introduction to lasers; optical properties of materials. May include laboratory component.

**Attributes:** BPS, DNSM

**Prerequisites:** Grades of C or better in all of: PHYS 201, 201L, 251, MATH 305 or Graduate status in Electrical Engineering.

### **PHYS 415A - Wave Mechanics & Atomic Physic - 3**

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Foundations of quantum mechanics: Wave functions; expectation values; operators; Schroedinger equation; simple applications including step potentials and harmonic oscillator, and perturbation theory. [Dist. NSM] Prerequisites: PHYS 302, MATH 305.

**Attributes:** DNSM, PS

**Prerequisites:** (Undergraduate level PHYS 302 Minimum Grade of D OR Undergraduate level PHYS

304 Minimum Grade of D) AND Undergraduate level MATH 305 Minimum Grade of D

### **PHYS 415B - Wave Mechanics & Atomic Physic - 3**

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Topics in atomic and molecular systems: Angular momentum; electron spin; hydrogen atom; atomic transitions and spectra; exclusion principle; multi-electron atoms; and molecular structure. [Dist. NSM] Prerequisites: PHYS 415A.

**Attributes:** DNSM, PS

**Prerequisites:** Undergraduate level PHYS 415A Minimum Grade of D

### **PHYS 416 - Principles Quantum Mechanics - 4**

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Wave functions, packets, probabilities, eigenfunctions, operators, uncertainty relations, Schrodinger equation, square wells, harmonic oscillator, barriers, angular momentum, hydrogen atom, spin, identical particles, exclusion principle, applications.

**Attributes:** BPS, DNSM, PS

**Prerequisites:** Undergraduate level PHYS 304 Minimum Grade of C AND (Undergraduate level PHYS 321 Minimum Grade of C OR Undergraduate level PHYS 323 Minimum Grade of C) AND (Undergraduate level MATH 321 Minimum Grade of C OR Undergraduate level MATH 355 Minimum Grade of C)

### **PHYS 419 - Intro to Theoretical Physics - 4**

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Mathematical techniques: Vectors, tensors, matrices, differential equations, special function, boundary value problems; other selected topics. [Dist. NSM] Prerequisites: PHYS 302, MATH 305.

**Attributes:** DNSM, PS

**Prerequisites:** (Undergraduate level PHYS 302 Minimum Grade of D OR Undergraduate level PHYS 304 Minimum Grade of D) AND Undergraduate level MATH 305 Minimum Grade of D

### **PHYS 430 - Physics & Astronomy Educ Resrch - 3**

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Questions, methodology, data analysis, and results of physics and astronomy education research.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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**PHYS 431 - Inst Strat: Particle & Rigid B - 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 211A and CI 200, or certified K-12 or physics graduate status.

**Attributes:** PS

**Prerequisites:** (Undergraduate level PHYS 211A Minimum Grade of D OR Undergraduate level PHYS 151 Minimum Grade of D) AND Undergraduate level CI 200 Minimum Grade of D OR Undergraduate level CIED 100 Minimum Grade of C

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**PHYS 432 - Inst Strat: Phys Waves & Therm - 3**

Pedagogical innovations, assessments and inquiry based activities will be developed for physical waves and thermodynamics. Addresses Illinois professional teaching physics designation #3 and #4.

Prerequisites: PHYS 303 and CI 200, or certified K-12, or graduate status.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 303 Minimum Grade of D AND Undergraduate level CI 200 Minimum Grade of D OR Undergraduate level CIED 100 Minimum Grade of C

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**PHYS 433 - Inst Strat: Elect & 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 211B and CI 200, or certified K-12 or physics graduate status.

**Attributes:** PS

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**PHYS 434 - Instruct Strat For Astronomy - 3**

Pedagogical innovations, assessments, and inquiry based activities will be developed for astronomy. Addresses Illinois professional teaching earth and space science standards #3 and #4. Prerequisites: PHYS 356 and CI 200 or certified K-12 teacher, or physics graduate status.

**Attributes:** PS

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**PHYS 438 - Phys & Astronomy Educ Res Sem - 1**

Seminar discussing current issues in physics and astronomy education research. May be repeated to a maximum of 4 hours provided no topic is repeated.

**Attributes:** PS

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**PHYS 439 - Physics Project for Educators - 1 to 3**

Physics curriculum development project with the topic and educational level decided in consultation with the instructor. Not for physics undergraduate majors. Requires teaching certificate or instructor permission.

**Attributes:** PS

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**PHYS 442 - 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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 240 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level CHEM 241A Minimum Grade of C

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**PHYS 444 - 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.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 230 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 321 Minimum Grade of C AND Undergraduate level PHYS 343 Minimum Grade of C

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### PHYS 450 - Solid-State Physics - 3

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Crystal structures and binding; lattice vibrations; electronic states; band theory of solids; semiconductors; optical properties of solids; other selected topics. [Dist. NSM] Prerequisite: PHYS 323 with minimum grade of C or concurrent enrollment, and concurrent enrollment in PHYS 416.

**Attributes:** BPS, DNSM

**Prerequisites:** Undergraduate level PHYS 323 Minimum Grade of C AND Undergraduate level PHYS 304 Minimum Grade of C

**Corequisites:** PHYS416

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### PHYS 471 - Laser Physics & Technology - 3

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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.

**Attributes:** BPS, DNSM

**Prerequisites:** (Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 410 Minimum Grade of C) OR (Graduate level PHYS 410 Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Majors: Electrical Engineering, Physics

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### PHYS 472 - Photonics Laboratory - 3

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Experimental techniques in photonics. May include: beam characterization, detectors, interferometers, optical fiber theory and applications, , coupling techniques, and fiber-optic communication.

**Attributes:** BPS, DNSM, EL

**Prerequisites:** (Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level

PHYS 201L Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 410 Minimum Grade of C) OR (Graduate level PHYS 410 Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Majors: Electrical Engineering, Physics

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### PHYS 480 - Selected Topics in Physics - 2 to 3

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Classroom instruction in topic of special interest not covered in other courses. May be repeated to a maximum of 6 hours as long as no topic is repeated. Requires consent of instructor.

**Attributes:** PS

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### PHYS 490 - Senior Physics Honors - 3

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Directed by student's physics honors program adviser in independent study format on topics chosen jointly by student and advisor. Not for graduate credit. [Dist. NSM] Prerequisites: PHYS 390, PHYS 405A.

**Attributes:** DNSM, PS

**Prerequisites:** (Undergraduate level PHYS 390 Minimum Grade of D OR Undergraduate level PHYS 409 Minimum Grade of D) AND Undergraduate level PHYS 405A Minimum Grade of D

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### PHYS 492 - Sr Project Biomed Physics - 1 to 3

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With guidance, a senior investigatory or independent study project in bio- or biomedical physics.

**Prerequisites:** Undergraduate level PHYS 240 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 304 Minimum Grade of C

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### PHYS 493 - Senior Project in Photonics - 1 to 3

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With guidance, a senior investigatory or independent study project in photonics and/or laser physics.

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 410 Minimum Grade of C



### **PHYS 494 - Med of Teach Phys Sec School - 3**

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Current teaching and resource materials. Ways to teach different topics in physics, problem solving techniques, and societal issues. Preparing for laboratory activities. Safety concerns. Not for physics major or graduate credit.

**Attributes:** PS

### **PHYS 495 - Physics Honors Thesis - 3**

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Research project directed by student's advisor results to be written up in the thesis form and presented at a departmental seminar. Not for graduate credit. Prerequisite: PHYS 390, PHYS 405A, PHYS 415A.

**Attributes:** PS

**Prerequisites:** (Undergraduate level PHYS 390 Minimum Grade of D OR Undergraduate level PHYS 409 Minimum Grade of D) AND Undergraduate level PHYS 405A Minimum Grade of D AND Undergraduate level PHYS 415A Minimum Grade of D

### **PHYS 496 - Senior Project in Astronomy - 1 to 3**

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With guidance, a senior investigatory or independent study project in astronomy/astrophysics.

**Prerequisites:** Undergraduate level PHYS 230 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 410 Minimum Grade of C

### **PHYS 497 - Senior Project in Exp Physics - 2 or 3**

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With guidance, a senior project in experimental physics. May be repeated for a maximum of 6 hours.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 318 Minimum Grade of C

**Corequisites:** PHYS304

### **PHYS 498 - Senior Proj in Theor Physics - 2 or 3**

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With guidance, a senior project in theoretical physics. May be repeated for a maximum of 6 hours.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 201 Minimum Grade of C AND Undergraduate level PHYS 251 Minimum Grade of C AND Undergraduate level PHYS 321 Minimum Grade of C

**Corequisites:** PHYS304

### **PHYS 499A - Senior Assignment: Part I - 3**

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Directed study toward completing the senior assignment. Includes a written proposal, data acquisition, and an oral presentation. NOT FOR GRADUATE CREDIT.

**Attributes:** PS

**Prerequisites:** Completion of 30 credit hours of physics courses and consent of instructor.

### **PHYS 499B - Senior Assignment: Part II - 2**

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Directed study toward completing the senior assignment. Includes data acquisition and analysis, written report, poster presentation and oral presentation. NOT FOR GRADUATE CREDIT.

**Attributes:** PS

**Prerequisites:** Undergraduate level PHYS 499A Minimum Grade of P

## **Political Science (POLS)**

### **POLS 111 - Intro to Political Science - 3**

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FMS

Institutional, behavioral, and ideological comparisons of major types of political systems and processes; approaches and systems. [Intro, II] [IAI Course No. S5 903]

**Attributes:** BSS, EGC, II, ISS

### **POLS 112 - Intro Amer Nat'l Gvmt & Pol - 3**

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FS

Principles and practices of American political systems, constitutions, governmental institutions, political parties, interest groups, elections. Public participation, resultant policies. [Dist. SS] [IAI Course No. S5 900]

**Attributes:** BSS, DSS, EUSC, IGR, ISS

### **POLS 150 - Comparative Politics - 3**

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This course presents an introduction to one of the major sub-fields in political science, comparative politics, through a detailed survey of the principal concepts, theoretical debates, and methodological approaches of the field. Concurrent enrollment in POLS 111.

**Attributes:** BSS, DSS, EGC

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of C (concurrency allowed)

### **POLS 292 - Legal Research and Writing - 3**

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Instruction and practice in researching statutory law, case law, and legal commentary; analyzing research results; communicating conclusions through written legal memoranda and briefs.

**Attributes:** BICS, DSS, EL

### **POLS 300 - Intro to Political Analysis - 3** <sup>FS</sup>

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Survey of models and quantitative techniques for organizing and analyzing data about politics; emphasis on application; use of appropriate computer programs.

**Attributes:** BSS, DSS, EL

### **POLS 310 - Readings in Political Science - 1 to 4** <sup>S</sup>

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Individualized instruction through specialized program designed by instructor and student. Normal assignment 1000 pages per credit hour; requirements determined prior to registration. For major and minors only. Prerequisites: POLS 111, POLS 112, consent of instructor.

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D AND Undergraduate level POLS 112 Minimum Grade of D

### **POLS 320 - Intro to Public Administration - 3**

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Processes and problems of managing government agencies, political context, policy impact, effects of bureaucratic organization; managing personnel and finances, evaluating effectiveness, controlling discretion. [Dist. SS]

**Attributes:** BSS, DSS

### **POLS 340 - The Presidency - 3** <sup>F</sup>

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Presidential powers and responsibilities: political, legal, constitutional, and administrative. Evolution of presidency, its relationships to Congress and Judiciary. Impact on political system. [Dist. SS]  
Prerequisite: POLS 112 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

### **POLS 341 - Congress - 3**

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Legislative organization and processes: Constitutional responsibilities and political dynamics. Impact on political system.

**Attributes:**

### **POLS 342 - Issues in Amer Public Policy - 3** <sup>F</sup>

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Public policies in such areas as taxing and spending, civil rights, welfare, health education, environment; explanations for adoption; problems of implementation; evaluation of impact. [Dist. SS]

**Attributes:** BSS, DSS

### **POLS 343 - American State Governments - 3**

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Comparative survey, historic and cultural influences, role of parties, interest groups, legislature, governors, and courts; impact on provision of state services. [Dist. SS]

**Attributes:** BSS, DSS

### **POLS 344 - Urban Politics - 3**

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Examination of political systems in American cities over time, including the role of political machines, suburban sprawl, economic development, demographic change, poverty, and federalism.

**Attributes:** BSS, DSS, EUSC

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

### **POLS 345 - Parties & Interest Group - 3**

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Characteristics of party system and its components,

its interrelationships with interest groups and their impact on the political system, recent changes. [Dist. SS] Prerequisite: POLS 112 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 346 - Public Opinion - 3**

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Formation, transmission, maintenance of political attitudes and opinions; role of political elites and mass media; implications and consequences for American political system. [Dist. SS]

**Attributes:** BSS, DSS, EUSC

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### **POLS 350 - Political Sys of Western Eur - 3** S

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Western European countries: historical development, regime types and institutional setups, electoral systems, political party systems, ideologies, state structure and political culture.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 351 - Eastrn European Pol Syst - 3** F

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Historical development, political culture, governmental processes, political participation, problems and prospects. [Dist. SS, II] Prerequisite: POLS 111 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 352 - Politics of Development - 3**

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Examination of the factors leading to successful political and economic transitions with a focus on less developed countries, including political structures, history, culture, behavior, and global impact.

**Attributes:** BSS, DSS, EGC, EUSC, II

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### **POLS 354 - Women & Cross-Nat Politics - 3**

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Women as citizens and as political leaders in the areas of politics, labor, peace, war and violence.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 355 - Political Systems Latin Amer - 3**

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Selected political systems: historical context, political culture, governmental processes, political participation; problems and prospects. [Dist. SS, II] Prerequisite: POLS 111 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 356 - Political Systems of Asia - 3**

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Chinese, Japanese, and Indian political systems: historical context, political cultures, governmental processes, political participation; problems and prospects. [Dist. SS, II] Prerequisite: POLS 111 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 370 - Intro International Relations - 3** FS

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Past and contemporary nation-state system; foreign policy behavior and processes, power, national interests, war, international law, organizations, economy, global problems and prospects. [Dist. SS, II] [IAI Course No. S5 904N] Prerequisite: POLS 111 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 371 - International Political Econ - 3**

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Examination of the interaction of economics and politics, focusing on the effect of international economic issues on politics between and within nations and societies.

**Attributes:** BSS, DSS

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### **POLS 372 - Politics of Occupation - 3**

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Military occupation has been a constant feature of

international relations and yet receives very little attention from International relations scholars. This course aims to rectify this situation.

**Attributes:** BSS, DSS, EGC

**Prerequisites:** Undergraduate level POLS 370  
Minimum Grade of C

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### **POLS 385 - Intro to Political Theory - 3**

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Basic concepts of political theory (e.g. justice, liberty, equality); forms of political systems; ideas of major political theorists. [Dist. SS] Prerequisite: Intro International Relations111 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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### **POLS 386 - Am Pol Ideas & Their Origin - 3** s

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Sources of contemporary political ideas; colonial, revolutionary, and constitution-building periods; era of democratization, industrialization, Civil War and early twentieth century. [Dist. SS]

**Attributes:** BSS, DSS

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### **POLS 390 - The Judicial Process - 3**

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Development, organization, and operation of Federal and state court systems. Roles, powers, limits of judges and courts, and other institutions with which they interact.

**Attributes:** BSS, DSS, EUSC

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 391 - Philosophy of Law - 3**

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Philosophical discussion of legal problems and issues in contemporary society such as rights, justice, freedom, responsibility, and punishment.

**Attributes:** BHUM, DFAH

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### **POLS 392 - Law and Society - 3**

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Examines the nexus of culture, dispute management and law. We will explore law as a social construct, focusing on law's everyday impact on citizens' lives.

Crosslisted with CJ 348 and PHIL 348.

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### **POLS 400 - Senior Assignment - 3** FS

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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.

**Prerequisites:** Completion of POLS 300 with grade of C or better; satisfactory completion of 75 credit hours. (Built this area to include POLS 300 into the 75 hrs. So the student would need to complete POLS 300 and 72hrs.)

**Restrictions:** Must be enrolled in one of the following Majors: Political Science

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### **POLS 410 - Legal Internship - 3 to 6**

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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: POLS 390 or consent of instructor.

**Prerequisites:** Undergraduate level POLS 390  
Minimum Grade of D

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### **POLS 411 - Internship in Government - 3 to 6** FS

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Assignment as paraprofessional 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.

**Restrictions:** Must be enrolled in one of the following Majors: Political Science, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **POLS 424 - Administrative Law - 3**

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Principles of administrative law in United States; extent of and limitations on powers of government regulatory agencies. [Dist. SS] Prerequisite: POLS 112.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 425 - Environmental Policy - 3**

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Explores the theoretical understanding of the policymaking processes through which modern societies attempt to cope with pollution and natural resource problems.

**Attributes:** BSS, DSS

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### **POLS 429 - Topics in Public Admin - 1 to 3**

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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. [Dist. SS] Prerequisite: POLS 320 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 320  
Minimum Grade of D

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### **POLS 430 - Review Teacher Certification - 3**

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Review of major concepts and processes necessary for teaching political science at the secondary education level. Prerequisites: Open only to political science secondary education teacher certification students with permission of instructor.

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### **POLS 440 - African American Politics - 3**

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Examination of the politics of African Americans. Description and analysis of the affect of political officials and institutions on African Americans and vice versa.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 441 - Women and Politics in America - 3**

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Consideration of politics and power in gender roles, family, class, occupation and research, women and the political system and women and public policy.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 112

Minimum Grade of D

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### **POLS 442 - Gender and Lawmaking - 3**

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This course explores the role of gender in the process of making law, including activism, lobbying, staff-work, elected lawmaking positions, and the court system.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of C OR Undergraduate level WMST 200  
Minimum Grade of C

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### **POLS 445 - Voting and Elections - 3**

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Political legal, sociological, psychological bases of voting behavior; theories of electoral outcomes and consequences. [Dist. SS] Prerequisite: POLS 112 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 449 - Topics in American Politics - 1 to 3**

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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. [Dist. SS] Prerequisite: POLS 112 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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### **POLS 453 - Ethnic Conflict - 3**

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Formation and politicization of ethnic identities. Comparative assessment of identities, ethnicity and conflict. Theories and methods of measuring and explaining ethnic conflict. Potential solutions.

**Attributes:** BSS, DSS, EGC

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of C

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### **POLS 459 - Topics in Comparative Politics - 1 to 3**

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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. [Dist. SS, II] Prerequisite: POLS 111 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

### **POLS 471 - New Forms of Violence - 3**

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This course explores dominant forms of violence on the international stage, in the 21st century. The course takes as its point of departure, the well-established assertion that conflict between countries is an increasingly rare phenomenon at present. However, it does not mean that we live in an inherently more peaceful world today. Many other forms of violence have usurped inter-state conflict.

**Attributes:** BSS, DSS, EGC

**Prerequisites:** Undergraduate level POLS 370  
Minimum Grade of C (concurrency allowed)

### **POLS 472 - International Organizations - 3**

---

Past and present international organizations, origins, structure, decision making processes, functioning of United Nations and its specialized agencies, problems and prospects. [Dist. SS, II] Prerequisite: POLS 370 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 370  
Minimum Grade of D

### **POLS 473 - U. S. Foreign Policy - 3**

---

Formulation, implementation, content, general policy patterns, international, domestic sources, policy instruments, regional dimensions and implications. [Dist. SS, II] Prerequisite: POLS 370 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 370  
Minimum Grade of D

### **POLS 479 - Topics International Relations - 1 to 3**

---

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. [Dist. SS, II] Prerequisite: POLS 370 or consent of instructor.

**Attributes:** BSS, DSS, EGC, II

**Prerequisites:** Undergraduate level POLS 370  
Minimum Grade of D

### **POLS 484 - Classical Political Theory - 3**

---

Works of major political thinkers from ancient times to the renaissance, including Plato, Aristotle, St. Augustine, St. Thomas, and Machiavelli. Same as PHIL 440. Requires Junior standing.

**Attributes:** BHUM, DFAH, EGC, IC

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **POLS 485 - Modern Political Theory - 3**

---

Works of major political thinkers from the renaissance to the present, including Hobbes, Locke, Rousseau, Hegel, Marx, Mill, and Nietzsche. [Dist. SS, IC] Cross-listed with PHIL 441.

**Attributes:** BHUM, DFAH, EGC, IC

### **POLS 489 - Topics in Political Theory - 1 to 3**

---

Major issues in political theory or works of one major political thinker. [Dist. SS] Prerequisite: 385 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 385  
Minimum Grade of D

### **POLS 495 - Const. Law: Powers of Government - 3**

---

Analyzes Supreme Court decisions regarding judicial, legislative, and executive power and the relationship between states and federal government in a range of policy areas.

**Attributes:** BSS, DSS, EUSC

**Prerequisites:** POLS 112 with a C or better; OR Graduate Status (GM).

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **POLS 496 - Const Law: Cvl Rghts & Liberti - 3**

---

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. [Dist. SS]

**Attributes:** BSS, DSS, EUSC

**Prerequisites:** POLS 112 with grade of C or better; OR Graduate status.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

### **POLS 497 - Environmental Law - 3**

---

Examines regulatory framework that has developed around the protection of various aspects of the environment over the past thirty years.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

### **POLS 498 - Legal Theory - 3**

---

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. Cross-listed with PHIL 498. NOT FOR GRADUATE CREDIT.

**Attributes:** DFAH, DSS, HUM, SS

**Prerequisites:** Undergraduate level POLS 390  
Minimum Grade of D OR Undergraduate level PHIL 111  
Minimum Grade of D

### **POLS 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. [Dist. SS] Prerequisite: POLS 390 or consent of instructor.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level POLS 390  
Minimum Grade of D

## **Production (PROD)**

### **PROD 315 - Operations Management - 3**

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FS

Study of manufacturing and service operations management. Covers process and product design; quality management; planning/control of materials and capacity; and project management.

**Prerequisites:** Undergraduate level MS 251  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Accountancy, Business Administration, Business Economics and Finance, Computer Management and Info Sys

### **PROD 490 - Ind Study in Operations Mgmt - 1 to 6**

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Topical areas in greater depth than regularly titled courses permit. Individual or small group readings of projects. May be repeated by permission to a maximum of 6 hours. Requires consent of department chair or program director.

## **Psychology (PSYC)**

### **PSYC 111 - Foundations of Psychology - 3**

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FMS

History; psychological methods and techniques; biological foundations of behavior; learning; motivation; development; personality; social; and psychopathology. [IAI Course No. S6 900]

**Attributes:** BSS, ISS

### **PSYC 200 - Careers in Psychology - 3**

---

FS

To provide students with information that will help them pursue a career in psychology by incorporating such activities as lectures and small group exercises.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Psychology

### **PSYC 201 - Child Psychology - 3**

---

FS

Biological and psychological development of child

from birth through puberty. [IAI Course No. S6 903]

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 203 - Adolescent Psychology - 3**

S

Biological and psychological development of adolescent; relationship between childhood development and adolescent behavior.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 204 - Adult Development and Aging - 3**

Examination of psychological and psychosocial factors in development throughout adulthood; myths and realities of aging. [IAI Course No. S6 905]

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 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.

**Attributes:** BSS, DSS, EH

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C

---

### **PSYC 206 - Social Psychology - 3**

FMS

Individual behavior in social situations; social perception, attitude formation and change; social influence; group processes; prejudice and discrimination; aggression; altruism. [IAI Course No. S8 900]

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 208 - Cognitive Psychology - 3**

FMS

This course offers a broad survey of cognitive

psychology. Topics covered include attention, perception, memory, language, reasoning and decision making.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 220 - Research Design & Statistics I - 3**

FMS

Methods for designing psychological studies and the statistics used to analyze and interpret the data. Focus on experimental method.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Psychology

---

### **PSYC 221 - Resrch Design & Statistics II - 3**

FMS

Methods for designing psychological studies and the statistics used to describe and interpret the data. Focus on nonexperimental method.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C AND Undergraduate level PSYC 220 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Psychology

---

### **PSYC 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.

**Attributes:** BSS, DSS, EH

**Prerequisites:** Undergraduate level PSYC 314  
Minimum Grade of C OR Undergraduate level BIOL 140 Minimum Grade of C OR (Undergraduate level BIOL 240A Minimum Grade of C AND Undergraduate level BIOL 240B Minimum Grade of C) AND Undergraduate level PSYC 111 Minimum Grade of C

---

### **PSYC 305 - Psychology of Gender - 3**

FMS



Psychological and cultural history of gender, changing sex roles, socialization, sexuality, issues related to mental health, stereotyping, cognition. Same as WMST 305.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 311 - Learning and Memory - 3**

Survey in topics related to conditioning, memory, and their integration. Students are recommended to have taken PSYC 208, PSYC 220 and PSYC 221.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 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.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C AND Undergraduate level PSYC 208 Minimum Grade of C AND Undergraduate level PSYC 220 Minimum Grade of C AND Undergraduate level PSYC 221 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Psychology

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### **PSYC 313 - Motivation - 3**

Biological, social, personality aspects of motivation in seminar and student conducted experiments.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 220  
Minimum Grade of D AND Undergraduate level PSYC 221 Minimum Grade of D

---

### **PSYC 314 - Physiological Psychology - 3** FM

Biological foundations of behavior; structure and function of brain related to personality, behavior, health.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111

Minimum Grade of D

---

### **PSYC 320 - Intro Industrial/Organ Psych - 3** FMS

Psychological principles and methods of analysis applied to problems in contemporary work settings.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 340 - Theories of Personality - 3** FS

Review and critical evaluation of major theories and supporting evidence.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

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### **PSYC 365 - Group Dynamics & Individ Beh - 3** MS

Small group interaction, including topics of group structure and function, group problem solving, leadership, etc.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 388 - Psychology Internship - 0**

Psychology-related work in a business, government or not-for-profit setting under the supervision of a field supervisor.

**Attributes:** COOP, SS

**Prerequisites:** Minimum of 2.25 cumulative GPA.  
**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Psychology

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### **PSYC 389 - Psychology Co-Op - 0**

Psychology-related work in a business, government or not-for-profit setting under the supervision of an employer.

**Attributes:** COOP, SS

**Prerequisites:** Minimum of 2.25 cumulative GPA  
**Restrictions:** Must be enrolled in one of the

following Fields of Study (Major, Minor, or Concentration): Psychology

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### **PSYC 407 - Multicultural Issues in Psych - 3** <sup>S</sup>

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Students will develop a critical framework for working at the concept of "culture" in contemporary America. Students will explore how culture impacts psychological services.

**Attributes:** EUSC, IGR, SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

### **PSYC 409 - History and Systems of Psych - 3** <sup>S</sup>

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Important antecedents of contemporary scientific psychology; issues, conceptual development, major schools and systems.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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### **PSYC 411 - Psychology of Sustainability - 3**

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C

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### **PSYC 413 - Pseudoscience in Psychology - 3** <sup>M</sup>

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Skepticism; debunking common psychology myths; critical thinking about the distinction between science and pseudoscience. Why do people believe strange things?

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D (concurrency allowed)

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### **PSYC 420 - Applied Behavior Analysis - 3**

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Learning principles, evaluation methods, techniques of managing and modifying human behavior, based upon operant and respondent conditioning.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

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### **PSYC 421 - Psychological Tests & Measure - 3** <sup>FM</sup>

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Principles of psychological measurement, test construction and evaluation; problems in assessment and prediction.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 220  
Minimum Grade of D

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### **PSYC 422 - Data Analysis with SPSS - 3**

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Comprehensive overview of SPSS. Focus on creating databases, analyzing data and interpreting results. Build students' confidence in using the software on their own.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 220  
Minimum Grade of C OR Undergraduate level PSYC 221  
Minimum Grade of C

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### **PSYC 431 - Psychopathology - 3** <sup>FMS</sup>

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Overview of psychological disorders like those described in the most recent edition of the DSM.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of C

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### **PSYC 442 - Adlerian Psych: Theory &App - 3** <sup>F</sup>

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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.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman,

Sophomore

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**PSYC 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.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

---

**PSYC 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.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 206  
Minimum Grade of D

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**PSYC 473 - Personnel Psychology - 3**

Psychological principles and techniques used in job selection, placement, training, employee evaluation.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 320  
Minimum Grade of D OR Undergraduate level  
MGMT 341 Minimum Grade of D

---

**PSYC 474 - Organizational Psychology - 3**

Relationship between organizational functioning and job satisfaction, motivation, performance, and psychological climate in work setting.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 320  
Minimum Grade of D

---

**PSYC 478 - Psychology of Stress - 3**

M

Physiological, psychological, social, and organizational factors involving stress, are covered, as are theories and models of stress and stress management.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level PSYC 111

Minimum Grade of C

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**PSYC 487 - Psychology of Aging - 3**

Biological, psychological and sociocultural factors in development and aging; age changes learning, memory, intelligence, personality; special issues such as retirement, Alzheimer's disease, elder abuse.

**Attributes:** SS

**Prerequisites:** Undergraduate level PSYC 204  
Minimum Grade of D

---

**PSYC 491 - Research in Psychology - 1 to 6**

FMS

Research under faculty supervision. May be repeated for a total of 27 hours; only 9 hours of PSYC 491, PSYC 493 and PSYC 496 (no more than 6 hours in any one course) may be applied toward major in Psychology, 3 hours toward minor in Psychology. Requires consent of instructor and chairperson; must have completed at least 18 hours of psychology; GPA above 2.5.

**Attributes:** SS

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**PSYC 493 - Field Study in Psychology - 1 to 6**

FMS

Supervised experiences in clinics, agencies and other professional settings. May be repeated up to 18 credit hours; only 9 hours of PSYC 491, PSYC 492 and PSYC 493 (no more than 6 hours in any one course) may be applied toward major in Psychology, 3 hours toward major in Psychology, 3 hours toward minor in psychology. Not for graduate credit. Requires consent of instructor and chairperson. Must have completed at least 18 hours of psychology; GPA above 2.5.

**Attributes:** SS

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**PSYC 494 - Capstone Sem in Psyc - 3**

FMS

Students will integrate critical thinking, communication and research skills by examining significant issues in various areas of psychology, culminating in a group research project. Requires declared major in psychology.

**Prerequisites:** Undergraduate level PSYC 221  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Psychology, Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**PSYC 495 - Selected Topics in Psychology - 3** M

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Offered occasionally when needed. May be repeated to a maximum of 9 hours so long as no topic is repeated.

**Attributes:** SS

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**PSYC 496 - Undergraduate TAs in Psych - 1 to 3** FMS

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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.

**Attributes:** SS

**Restrictions:** Must be enrolled in one of the following Majors: Psychology

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**PSYC 497 - Honors Seminar in Psychology - 0**

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Varied topics offered occasionally when needed. May be repeated to a maximum of 6 hours as long as no topic is repeated. Not for graduate credit. Requires admission to psychology honors academy.

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**PSYC 498 - Honors Coordinating Seminar - 2**

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Coordinating seminar for psychology honors programs; students develop and report on individual and group projects involving honors level work. May be repeated for a maximum of 8 hours (only 4 hours can count toward credit for major). Not for graduate credit admission to psychology honors program

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**PSYC 499 - Psychology Senior Honors Paper - 3**

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Independent project to be completed during senior year under faculty supervision. Committee chairperson must be member of Psychology department. Not for graduate credit. Requires Senior standing, admission to Psychology Honors

academy.

## Quantitative Reasoning (QR)

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**QR 101 - Quantitative Reasoning - 3** FMS

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Focuses on mathematical reasoning and real-life problems. Including: management science, coding, social choice and decision making, size and shape, and modeling.

**Attributes:** FQR

## Reasoning and Argumentation (RA)

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**RA 101 - Reasoning and Argumentation - 3** FMS

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Students will learn to analyze, critically evaluate, and construct arguments. Topics include organizing information, detecting fallacies, analyzing meaning, and using effective methods of argumentation.

**Attributes:** FRA, SKLG

## Russian (RUSS)

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**RUSS 101 - Elementary Russian I - 4**

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Listening, speaking, reading and writing within context of Russian culture. Lab included.

**Attributes:** BICS, FL, HUM, SKFL

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**RUSS 102 - Elementary Russian II - 4**

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Continuation of RUSS 101.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL

**Prerequisites:** Undergraduate level RUSS 101  
Minimum Grade of D

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**RUSS 104 - Elementary Russian - 8**

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Intensive instruction in listening, speaking, reading, and writing within context of Russian culture. Equivalent to RUSS 101 and RUSS 102 combined. Must enroll for all 8 hours. Lab included. Check with department chairperson to determine if course will be offered.

**Attributes:** EGC, FL, HUM, IC, SKFL

### **RUSS 201 - Intermediate Russian I - 4**

---

Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level RUSS 102  
Minimum Grade of D

### **RUSS 202 - Intermediate Russian II - 4**

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Continuation of RUSS 201. Lab included. [IAI Course No. H1 900]

**Attributes:** BICS, DFAH, FL, HUM, SKFL

**Prerequisites:** Undergraduate level RUSS 201  
Minimum Grade of D

### **RUSS 220 - Intermed Russian Conversation - 3**

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Practice in intermediate level conversation. Focus on pronunciation and fluency. Prerequisite: RUSS 102 or equivalent.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level RUSS 102  
Minimum Grade of D

### **RUSS 499 - Readings in Russian - 3**

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Selected areas of language, literature, and culture. Individual work or small groups supervised by Russian faculty. Not for graduate credit. Requires consent of instructor.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level RUSS 202  
Minimum Grade of D

## **Study Abroad (SAB)**

### **SAB 200 - Study Abroad - 1 to 16**

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University-approved study abroad in a country and institution of the student's choosing. 32 total hours per academic year including summer. Student must be a Sophomore (30+ hours) and in good standing.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman

### **SAB 300 - Study Abroad - 1 to 16**

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University approved study abroad in a country and institution of the student's choosing. 32 total hours per academic year including summer. Student must be a Sophomore (30+ hours) and in good standing.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

### **SAB 400 - Study Abroad - 1 to 16**

---

University approved study abroad in a country and institution of the student's choosing. For undergraduate and graduate credit. Student must be a Sophomore (30+ hours) and in good standing.

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman

## **Science (SCI)**

### **SCI 241A - Foundations of Science - 3**

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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. Prerequisite: CIED 100 with minimum grade of C or concurrent enrollment; and CI 200, SPE 100, and SPE 200 with minimum grade of D or concurrent enrollment.

**Attributes:** BLS, EL, LNSM

**Prerequisites:** Undergraduate level CI 200  
Minimum Grade of D (concurrency allowed) OR  
Undergraduate level CIED 100 Minimum Grade of C (concurrency allowed) OR Undergraduate level SPE 200 Minimum Grade of D (concurrency allowed) OR Undergraduate level SPE 100 Minimum Grade of D (concurrency allowed)

### **SCI 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 inquiry projects. Prerequisite: CIED 100 and SPE 100 with minimum grade of C or concurrent enrollment.

**Attributes:** BPS, EL, LNSM

**Prerequisites:** Undergraduate level CIED 100

Minimum Grade of C (concurrency allowed) OR Undergraduate level SPE 100 Minimum Grade of C (concurrency allowed)

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**SCI 401 - Selected Topics in Phys - 2 to 4**

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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. Requires consent of instructor.

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**SCI 405 - Selected Techniques in Physics - 2 to 4**

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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. Prerequisites: Two years of college science and mathematics.

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**SCI 411 - Selected Topics in Chem - 2 to 4**

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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.

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**SCI 414 - History of Chemistry - 1 to 3**

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Topics in history of chemistry. May be repeated to a maximum of 6 hours so long as no topic is repeated. Requires consent of instructor.

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**SCI 415 - Selected Techniques in Chem - 2 to 4**

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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.

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**SCI 421 - Selected Topics in Biol - 2 to 4**

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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.

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**SCI 425 - Selected Techniques in Biology - 2 to 4**

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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. Requires consent of Instructor.

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**SCI 431 - Sel Topics in Earth & Env Sci - 2 to 4**

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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. Requires consent of instructor.

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**SCI 435 - Sel Tech in Earth & Env Sci - 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.

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**SCI 442 - Sp Top in Tchng Sci in Elem Sc - 1 to 4**

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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.

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**SCI 451 - Integrated Science - 3**

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Laboratory-based integrated science course. Interactions of the sciences-earth and space, physical, life sciences and mathematics. Research project, paper, and presentation. Prerequisite: Completed 24 semester hours of science credit; 2.5 or higher GPA.

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**SCI 452 - Sp Tpc in Tchng Sci in 2nd Sch - 1 to 4**

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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. Requires consent of instructor.

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**SCI 462 - Special Topics in Teaching Sci - 1 to 4** <sup>F</sup>

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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.

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**SCI 489 - Ind Study in Science Ed - 1 to 3**

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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. Requires consent of instructor.

## **Sociology (SOC)**

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**SOC 111 - Introduction to Sociology - 3** <sup>FMS</sup>

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Changes, causes and consequences of group life. Scientific and humanistic study of social processes and institutions, including change, control, religion, education, inequality, health, and family. [IAI Course No. S7 900]

**Attributes:** BSS, EUSC, ISS

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**SOC 200 - Cooperation and Conflict - 3**

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Communication, specialization, reciprocity, and conflict resolution. Families, feudalism, cities, and nations. Capitalism, socialism, communism, corporations, and cooperatives. Learning formats: games, role playing, discussions, and lectures.

**Attributes:** DSS, SS

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**SOC 272 - Criminology - 3** <sup>S</sup>

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An introduction to theory and research on lawmaking, lawbreaking and the reactions to crime and criminality. [IAI Course No. CRJ 912] Same as CJ 272.

**Attributes:** BSS, DSS

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**SOC 300 - Social Problems - 3** <sup>M</sup>

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Extent and causes of a number of current American social problems; how social conditions become problems. Some attention to methods of researching problems. [IAI Course No. S7 901]

**Attributes:** BSS, DSS, EUSC

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**SOC 301 - Survey of Theory - 3** <sup>FS</sup>

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Major classical theorists including Durkheim, Marx, and Weber, and contemporary schools of thought including functionalism; conflict; exchange; symbolic interaction.

**Attributes:** BSS, DSS

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**SOC 302 - Social Research Methods - 3** <sup>FS</sup>

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Fundamentals of measurement, research design, and logic of determining cause-effect relationships. Includes experimental, survey, archival, and field research methods. Interrelationships between theory and research.

**Attributes:** BSS, DSS

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**SOC 303 - Statistics With Computer App - 3** <sup>FS</sup>

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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.

**Attributes:** DSS, SS

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**SOC 304 - Race & Ethnic Relations - 3** <sup>FMS</sup>

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Racial and cultural interaction and conflict; causes of prejudice and discrimination; status and participation of majority-minority relations. [IAI

Course No. S7 903D]

**Attributes:** BSS, DSS, EUSC, IGR

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**SOC 308 - Gender & Society - 3**

FMS

Sociological and feminist perspectives on women in American society with an emphasis on institutions that create maintain and reproduce gender and gender inequality. (Same as WMST 308)

**Attributes:** BSS, DSS, EUSC, IGR

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**SOC 309 - Social Inequality - 3**

S

Extent and causes of social inequality. Attention to consequences of the sustained existence of such inequalities in our everyday lives.

**Attributes:** BSS, DSS, EUSC

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**SOC 310 - Sexualities and Society - 3**

M

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.

**Attributes:** BSS, DSS, EH

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**SOC 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.

**Attributes:** BSS, DSS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**SOC 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. Prerequisites: Sociology major with 9 credit hours of sociology or consent of instructor.

**Attributes:** SS

**Restrictions:** Must be enrolled in one of the

following Majors: Sociology

---

**SOC 333 - Sociology for Careers and Life - 3**

Created by SIUE Sociology Faculty to shape our majors and minors in ways that will maximize their career development. The course is organized into three parts: 1) Successful Sociology Student, 2) Preparing for Jobs Related to Sociology, and 3) Application of Sociology & Public Sociology.

**Prerequisites:** Undergraduate level SOC 111  
Minimum Grade of C

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**SOC 335 - Urban Sociology - 3**

M

Rise, development, structure, culture, planning, and problems in early and modern cities. How sociologists study cities; metropolitan areas. Some attention to urban social segregation.

**Attributes:** BSS, DSS, EUSC, IGR

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**SOC 338 - Sociology at Work - 3**

FMS

Development, changing nature, and social impact of industrial organization; transition from mass production to flexible systems, employee participation and labor-management relations.

**Attributes:** BSS, DSS

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**SOC 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.

**Attributes:** BSS, DSS, EGC, EUSC, IC, IGR, II

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**SOC 373 - Juvenile Delinquency - 3**

Causes, consequences, and prevention of youth crime; historical and contemporary issues; role of family, school, and community; sporadic and chronic delinquency; prevention, treatment, and punishment.

**Attributes:** DSS, SS

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**SOC 383 - Medicine, Health, & Society - 3**

Critically investigates contemporary medical and scientific research/policy, examines social



stratification, and considers influences on structural health outcomes, with a focus on health inequalities.

**Attributes:** BSS, DSS, EH

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**SOC 390 - Sociological Perspective - 3** S

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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 repeated.

**Attributes:** BSS, DSS

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**SOC 391 - Marriage and Family - 3** FS

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Marriage and the family in the U.S. society. Behavioral change including gender roles; dating and mate selection; love and intimacy; alternative family forms; communication/conflict; and divorce/remarriage. [IAI Course No. S7 902]

**Attributes:** BSS, DSS

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**SOC 392 - African American Communities - 3**

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Through ethnographies and case studies, the diversity, agency, resiliency, and struggles of African American communities (in the United States) are illuminated.

**Attributes:** BSS, DSS, EUSC

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**SOC 394 - Sociology of the Black Family - 3**

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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.

**Attributes:** DSS, EUSC, IGR, SS

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**SOC 396 - Readings in Sociology - 1 to 6**

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Supervised reading, projects, and field experience in selected areas. May be repeated for up to 6 hours provided no topic is repeated. Requires consent of department chair or program director.

**Attributes:** SS

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**SOC 411 - Social Movements - 3**

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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.

**Attributes:** BSS, DSS, EUSC

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**SOC 420 - Leadership - 3**

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Leadership as parents, teachers, counselors, employers, and change agents. Group problem-solving process. Social movements.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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**SOC 421 - Individual and Society - 3**

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Integration of individual and society; role structure and orientation to society; habits, communication, channels of meaning, emergence, presentation and defense of self.

**Attributes:** BSS, DSS

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**SOC 422 - White Collar Crime - 3**

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An examination of the nature, extent, and distribution of white-collar crime as well as its causes, correlates and control.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level CJ 272 Minimum Grade of D OR Undergraduate level SOC 272 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOC 431 - Employment & Workplace Change - 3**

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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.

**Attributes:** BSS, DSS

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### **SOC 433 - Internship in Sociology - 3**

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Supervised placement in actual non-profit/social movement organization or for-profit business. Acquisition of hands-on experience and practical skills, providing head start in meeting career objectives. Prerequisites: Sociology majors with 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 w/ concurrency) with a grade of C or better in all required classes, plus 5 sociology classes; and advisor consent.

**Attributes:** SS

**Prerequisites:** Undergraduate level SOC 111 Minimum Grade of C AND Undergraduate level SOC 301 Minimum Grade of C AND Undergraduate level SOC 302 Minimum Grade of C AND Undergraduate level SOC 303 Minimum Grade of C AND (Undergraduate level SOC 338 Minimum Grade of C (concurrency allowed) AND Undergraduate level SOC 431 Minimum Grade of C (concurrency allowed)) OR (Undergraduate level SOC 325 Minimum Grade of C (concurrency allowed) AND Undergraduate level SOC 411 Minimum Grade of C (concurrency allowed))

**Restrictions:** Must be enrolled in one of the following Concentrations: Diversity and Social Justice, Employment Relations

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### **SOC 440 - Sociology of Pop Culture - 3**

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Relevant theories, methodologies, and works of original research. Students apply knowledge gained by analyzing examples from contemporary popular culture.

**Attributes:** BSS

**Restrictions:** Must be enrolled in one of the following Levels: Graduate, Undergraduate

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### **SOC 441 - Health, Illness and Society - 3**

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Social determinants of sickness and death; illness as social behavior; patient-practitioner, hospitals, issues in organization and delivery of health care.

**Attributes:** DSS, SS

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### **SOC 444 - Gender, Ethnicity & Class in W - 3**

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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. (Note: SOC 444 only approved for graduate credit.) Same as WMST 444.

**Attributes:** BSS, DSS, EUSC, IGR

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### **SOC 470 - Sociology of Deviance - 3**

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Behavior such as prostitution, drug use, murder, racism, sexual variances, rape and insanity examined theoretically and empirically.

**Attributes:** BSS, DSS

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### **SOC 472 - Explaining Crime - 3**

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Examination of the relationship between classical and contemporary criminological theory, research, and policy. Same as CJ 472.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level SOC 272 Minimum Grade of D OR Undergraduate level CJ 272 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOC 474 - Victims and Society - 3**

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Sociological analysis of war, crime, inequality, racism, sexism and other victim-generating conditions and processes; a non-lecture, active-learning course.

**Attributes:** BSS, DSS

**Prerequisites:** Undergraduate level SOC 111 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

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### **SOC 490 - Special Topics in Sociology - 3**

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Topics not included in regular course offerings. May be repeated once to a maximum of 6 hours provided no topic is repeated.

**Attributes:** DSS, SS

### **SOC 493 - Sociological Research Workshop - 3** <sup>FS</sup>

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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.

**Attributes:** SS

**Prerequisites:** Completion of SOC 111, 301, 302 with C or better and three SOC Electives with a D or better.

**Restrictions:** Must be enrolled in one of the following Majors: Sociology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

### **SOC 495 - Senior Assignment Seminar - 3** <sup>FS</sup>

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Conduct a social research project based on proposal developed in SOC 302 and SOC 303. May use survey participant observation, evaluation/assessment, or other quantitative or qualitative methods. (May not be taken for graduate credit).

**Prerequisites:** Undergraduate level SOC 111 Minimum Grade of C AND Undergraduate level SOC 301 Minimum Grade of C AND Undergraduate level SOC 302 Minimum Grade of C AND Undergraduate level SOC 303 Minimum Grade of C AND Undergraduate level SOC 493 Minimum Grade of C  
**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## **Social Sciences (SOCS)**

### **SOCS 200 - Foundations of Social Science - 3**

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Analysis of the concepts and methodologies of selected social science disciplines appropriate for teachers.

**Attributes:** DSS, SS

## **Social Work (SOCW)**

### **SOCW 200 - Foundations of Social Work I - 4** <sup>FS</sup>

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Introduction to the profession by examining the skills, knowledge and perspectives in social work. Emphasis on values, ethics, and populations at risk. Includes forty hours at a social service agency.

**Attributes:** BSS, DSS

### **SOCW 201 - Foundations of Social Work II - 3** <sup>F</sup>

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Examination of social welfare settings including their functions, clientele, and methods of service provision at all client systems levels. Prerequisite: Consent of program director.

**Attributes:** DSS, SS

### **SOCW 211 - Micro Skills of Counseling - 3** <sup>F</sup>

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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.

**Prerequisites:** Undergraduate level SOCW 200 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Social Work

### **SOCW 301 - Intro to Social Welfare Policy - 3** <sup>S</sup>

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Analysis of problems faced by individuals, families, groups and communities; relationships between definitions of problems and society's response to them, especially policy.

**Prerequisites:** Undergraduate level SOCW 211 Minimum Grade of B AND Undergraduate level HIST 201 Minimum Grade of D AND Undergraduate level POLS 112 Minimum Grade of D

### **SOCW 302 - Human Bhvr in the Social Env I - 3** <sup>F</sup>

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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:** Undergraduate level SOCW 211 Minimum Grade of B AND Undergraduate level PSYC 111 Minimum Grade of D AND Undergraduate

level BIOL 111 Minimum Grade of D

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**SOCW 303 - Human Beh in the Social Env II - 3** <sup>S</sup>

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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:** Undergraduate level SOCW 211 Minimum Grade of B AND Undergraduate level ANTH 111 Minimum Grade of D

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**SOCW 315 - Socw Pract W/ Indivs & Famili - 3** <sup>S</sup>

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Problem solving model for generalist social work practice. Applications for working with individuals and families. Includes weekly lab.

**Prerequisites:** Undergraduate level SOCW 211 Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Social Work

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**SOCW 316 - Social Work Group Practice - 3** <sup>S</sup>

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Study of generalist social work practice with groups; survey of selected group intervention models. Includes weekly practice lab.

**Prerequisites:** Undergraduate level SOCW 211 Minimum Grade of B

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**SOCW 357 - Juvenile Delinquency - 3**

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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.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 370 - Child Welfare - 3**

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Examination of child welfare including models of intervention, types of abuse and neglect, functions of case management and issues of cultural diversity.

Prerequisite: SOCW 200, junior or senior standing.

**Attributes:** DSS, SS

**Prerequisites:** Undergraduate level SOCW 200 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Sophomore

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**SOCW 386 - Health Care Issues in SOCW - 3**

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Examines contemporary health issues such as hypertension, diabetes, childhood obesity with emphasis on HIV/AIDS and how these diseases relate to populations at-risk.

**Attributes:** DSS, SS

**Prerequisites:** Undergraduate level BIOL 111 Minimum Grade of D

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 388 - Chemical Dependency - 3**

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Examines the bio-psycho-social perspective of chemical dependency; focusing on drug availability, effects, assessment, interventions, and public policies.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 390 - Div & Iss of Soc & Econ Just - 3** <sup>F</sup>

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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.

**Attributes:** BSS, DSS, EUSC, IGR

**Restrictions:** May not be enrolled as the following Classifications: Freshman, Sophomore

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**SOCW 395 - Independent Study in Socw - 1 to 6**

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To be arranged with member of social work faculty. Open to social work majors only. Requires admission to the major, consent of instructor and program director/coordinator.

**Prerequisites:** Undergraduate level SOCW 200 Minimum Grade of D AND Undergraduate level SOCW 201 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Social Work, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

---

**SOCW 400 - Socw Practice W/ Orgs & Comm - 3**

F

Applications of generalist practice principles and selected practice models to social work with organizations and communities. Not for grad credit. Requires admission to major.

**Restrictions:** Must be enrolled in one of the following Majors: Social Work

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**SOCW 401 - Social Welfare Policy Analysis - 3**

S

Selected models of policy analysis with applications to social welfare issues. Special emphasis on legislative processes and lobbying for social change. Not for graduate credit. Requires admission to major.

**Restrictions:** May not be enrolled as one of the following Majors: Social Work

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**SOCW 430 - Spirituality in Social Work - 3**

Explores the concept of spirituality as it relates to social work practice. Prerequisites: junior or senior standing. ENG 101 and 102 with a grade C or higher or enrollment in the Masters of Social Work Program.

**Prerequisites:** Undergraduate level ENG 101 Minimum Grade of C AND Undergraduate level ENG 102 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 440 - Int'l & Global Social Work - 3**

Explores social work practice with international populations within and outside the United States. Prerequisites: junior or senior standing. ENG 101 and 102 with a grade C or higher or enrollment in

the Masters of Social Work Program.

**Prerequisites:** Undergraduate level ENG 101 Minimum Grade of C AND Undergraduate level ENG 102 Minimum Grade of C

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 454 - Disability in Society - 3**

Overview of issues and services pertaining to disability in American society including biological, psychological, familial and social considerations. Not for Graduate Credit.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**SOCW 466 - Disaster Services - 3**

Future human service professionals learn about disaster preparedness, response recovery, and mitigation to help individuals, families, and communities in need.

**Prerequisites:** Undergraduate level ENG 102 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

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**SOCW 480 - Research Methods in SOCW - 3**

F

Knowledge and application of qualitative and quantitative research and statistics for social work practice. Includes discussion of ethical issues and practice evaluation. Not for graduate credit. Prerequisites: STAT 107, admission to major. Co-requisite: Must be taken concurrently with SOCW 482.

**Prerequisites:** Undergraduate level STAT 107 Minimum Grade of D

**Corequisites:** SOCW482

**Restrictions:** Must be enrolled in one of the following Majors: Social Work

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**SOCW 481 - Statistics for Social Work - 3**

S

Understanding and use of descriptive statistics and hypothesis testing for social work practice. Not for Graduate Credit. Prerequisite: SOCW 480 with a minimum grade of C. Co-requisite: must be taken concurrently with SOCW 483.

**Prerequisites:** Undergraduate level SOCW 480  
Minimum Grade of C

**Corequisites:** SOCW483

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### **SOCW 482 - Field Instruction I - 4** F

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With SOCW 483, two consecutive semesters of supervised practicum consisting of a minimum of 400 hours in approved social work setting. Weekly seminars. Social Work majors only. NOT FOR GRADUATE CREDIT. Requires consent of Director of Practica, 2.5 cumulative GPA. Co-requisite: must be taken with SOCW 480.

**Corequisites:** SOCW480

**Restrictions:** Must be enrolled in one of the following Majors: Social Work, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOCW 483 - Field Instruction II - 4** s

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Continuation of SOCW 482. Not for graduate credit. Prerequisite: SOCW 482 with a minimum grade of C. Co-requisite: Must be taken concurrently with SOCW 481.

**Prerequisites:** Undergraduate level SOCW 482  
Minimum Grade of C

**Corequisites:** SOCW481

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### **SOCW 486 - Street Gangs - 3**

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Will provide an alternative understanding of street gangs as a form of social organization in urban communities.

**Attributes:**

**Prerequisites:** ENG 101 and 102 (or equivalent) with a grade of C or better; or graduate standing.

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOCW 487 - Involuntary Clients - 3**

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Examines factors and characteristics which lead to resistance in a variety of fields of practice; examines issues of social control and practice approaches. Not for graduate credit.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOCW 488 - Social Work Practice Models - 3**

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Survey of intervention models for social work practice with individuals, families and groups. Not for graduate credit. [Dist. SS] Prerequisite: SOCW 315.

**Attributes:** DSS, SS

**Prerequisites:** Undergraduate level SOCW 315  
Minimum Grade of D

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### **SOCW 491 - Mental Health - 3**

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Exploration of mental health issues. Specific attention to the use of the DSM, diagnosis of mental illnesses and values and ethics in social work practice. NOT FOR GRADUATE CREDIT.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOCW 492 - Domestic Violence - 3**

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Overview of domestic violence; effects of violence on children, elder abuse and Illinois laws affecting domestic violence. Not for Graduate Credit.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Sophomore

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### **SOCW 495 - Special Topics in Social Work - 3**

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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. Requires Junior or Senior standing.

**Attributes:** DSS, SS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman,  
Sophomore

## Spanish (SPAN)

### **SPAN 101 - Elementary Spanish I - 4** FMS

Listening, speaking, reading and writing. Culture of Spanish-speaking countries. Lab required.

**Attributes:** BICS, FL, HUM, SKFL

### **SPAN 102 - Elementary Spanish II - 4** FS

Continuation of SPAN 101. Lab included.

**Attributes:** BICS, EGC, FL, HUM, IC, SKFL  
**Prerequisites:** Undergraduate level SPAN 101  
Minimum Grade of D

### **SPAN 104 - Elementary Spanish - 8**

Intensive instruction in listening, speaking, reading, and writing. Culture of Spanish speaking countries. Lab included. Equivalent to SPAN 101 and SPAN 102 combined. Must enroll for all 8 hours credit. Contact department chairperson to determine if course will be taught.

**Attributes:** EGC, FL, HUM, IC, SKFL

### **SPAN 201 - Intermediate Spanish I - 4** FS

Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level SPAN 102  
Minimum Grade of D

### **SPAN 202 - Intermediate Spanish II - 4** FS

Continued practice in listening, speaking, reading, and writing. Grammar review. Cultural and literary readings, compositions. Lab included. Prerequisite: placement testing.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level SPAN 201

Minimum Grade of D

### **SPAN 301 - Advanced Spanish - 4** FS

In-depth grammar review. Composition and conversation. Lab included.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

### **SPAN 302 - Advanced Spanish - Intro to Lit - 4** FS

Selected topics in grammar, readings, and composition. Lab included. [Dist. FAH] Prerequisite: SPAN 301 or consent of instructor.

**Attributes:** BICS, DFAH, FL, HUM, SKFL  
**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

### **SPAN 303 - Academic Spanish - 3**

Spanish grammar, spelling, and vocabulary for academic purposes. Formal study of the Spanish language to develop oral and written Spanish for academic purposes.

**Attributes:** BHUM, DFAH, EUSC  
**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of C

### **SPAN 304 - Interpretation - 3**

Oral translation of selected passages, alternating between English and Spanish; development of precision and clarity in both languages.

**Attributes:** BICS, DFAH, HUM  
**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

### **SPAN 305 - Comp Assis Written Translation - 4**

Computerized automatic translation: English/Spanish and Spanish/English. Lab included. Requires some familiarity with word processing.

**Attributes:** DFAH, HUM  
**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 306 - Contemporary Span Prof Rdngs - 3**

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Selections from publications related to professions and issues.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 307 - Business Spanish - 3**

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Oral and written business expression; specialized terminology and idioms.

**Attributes:** BICS, DFAH, EGC, HUM

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 308 - Spanish Linguistics - 4**

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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.

**Attributes:** BICS, DFAH, HUM

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D

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**SPAN 311 - Contemporary Spain - 3**

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Analysis of significant aspects of Spanish culture to improve intercultural understanding and develop language skills.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 312 - Contemporary Spanish America - 3**

---

Analysis of significant aspects of Spanish-American culture to improve intercultural understanding and develop language skills.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 320 - Advanced Spanish Conversation - 3**

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Practice in advanced-level conversation. Focus on pronunciation and fluency.

**Attributes:** BICS, DFAH, EGC, HUM, IC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 351 - Surv of Spanish Lit Peninsular - 3**

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Representative prose, poetry, drama.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 352 - Surv o/Sp-Am Lit Col-Per-Pres - 3**

---

Representative prose, poetry, drama.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 353 - Surv of Drama in Span Lang - 3**

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Selected readings; literary and cultural background.

**Attributes:** BHUM, DFAH, EGC

**Prerequisites:** Undergraduate level SPAN 202  
Minimum Grade of D

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**SPAN 392 - Spanish in the Community - 3**

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Spanish service-learning class in which students are exposed to and volunteer in the Hispanic communities of Illinois and Missouri.

**Attributes:** BICS, EGC, EUSC, IC, IGR, SKFL, SKOC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of A

**Restrictions:** Must be enrolled in one of the following Fields of Study (Major, Minor, or Concentration): Spanish, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman

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**SPAN 400 - Senior Essay in Spanish - 3**

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Supervised research and preparation of an extensive scholarly paper in Spanish. Not for graduate credit. Usually taken after completion of all major courses.



Requires Foreign language advisor approval.

**Attributes:** HUM

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**SPAN 412A - U.S.A. Hispanics: Mexican Ams - 3**

Hispanic cultures in the U.S.A. study of the unique contributions of Mexican Americans through their language, literature and the arts.

**Attributes:** BHUM, DFAH, EUSC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 412B - U.S. Hispanics: Cuban & PR Ams - 3**

Hispanic cultures in the U.S.A. study of the unique contributions of Cuban Americans and Puerto Rican Americans through their language, literature and the arts.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 440 - Spanish American Cinema - 3**

This course offers a survey of Latin America cinema, concentrating on the critical analysis of representative films, with particular attention to different national cultures.

**Attributes:** BHUM, EGC, IC, II

**Prerequisites:** Undergraduate level SPAN 311  
Minimum Grade of C OR Undergraduate level SPAN 312 Minimum Grade of C

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**SPAN 451 - St in Span Lit Beg Thru 17Th C - 3**

Literary analysis of prose, poetry, drama, 11th through 17th centuries. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 452 - St in Span Lit 17th Thr 20th C - 3**

Continuation of 451. Literary analysis of prose, poetry, and drama. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 453 - Seminar in Hispanic Lit - 3**

Critical and analytical study of masterpieces. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 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.

**Attributes:** BHUM, DFAH

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 457 - Don Quixote - 3**

Critical and analytical study of Cervantes' masterpiece.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

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**SPAN 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: 6 hours of 300 level courses.

**Attributes:** DFAH, HUM

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

### **SPAN 471 - Span-Am Lit Short Stories/Novl - 3**

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Representative works of last four decades of 20th century. Not for graduate credit.

**Attributes:** BHUM, DFAH, EGC, IC

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D OR Undergraduate level SPAN 302 Minimum Grade of D

### **SPAN 491 - Cultural & Lang Workshop Span - 3 to 6**

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Comparative or contrastive linguistics, advanced methodology and techniques. In-depth study of foreign cultures, travel-study abroad. Supervised projects in foreign studies. May be repeated to a maximum of 6 hours provided no topic is repeated.

**Attributes:** DFAH, EGC, HUM, IC

**Restrictions:** Must be enrolled in one of the following Classifications: Junior, Senior with Degree, Senior

### **SPAN 492 - Serv Lrn For The Adv Student - 3**

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Projects. 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 [Dist. FAH, IC, IGR]  
Prerequisite: SPAN 301 or permission of instructor.

**Attributes:** DFAH, EGC, EUSC, HUM, IC, IGR

**Prerequisites:** Undergraduate level SPAN 301  
Minimum Grade of D

### **SPAN 499 - Readings in Spanish - 3**

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Selected areas of language, literature, and culture. Individual work or small groups supervised by Spanish faculty. Requires consent of instructor.

**Attributes:** DFAH, HUM

**Restrictions:** May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## **Special Education (SPE)**

### **SPE 100 - Introduction to Disabilities - 3** FS

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Surveys historical, philosophical, and legal foundations of special education; characteristics and needs of individuals with disabilities; and roles and responsibilities of education professionals.

**Attributes:** EUSC, IGR

### **SPE 290 - Language Development - 3** MS

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Study of developmental milestones, theories of communication development, and effects of diversity on communication in both typically developing children and children with disabilities. Must be in a teacher education program or instructor approval.

### **SPE 400 - The Exceptional Child - 3** FMS

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Psychology, identification, and methods of teaching individuals with exceptionalities, including individuals with learning disabilities. Prerequisites: Admission to teacher education program or instructor approval.

**Attributes:** EUSC

### **SPE 401 - Fld Prac I in Spe Educ - 1** F

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Supervised early practicum allows candidates to observe and participate in a special education classroom. Students will complete 90 clock hours.

**Prerequisites:** Undergraduate level SPE 100  
Minimum Grade of B

**Corequisites:** SPE405, SPE417A, SPE430A, SPE442

**Restrictions:** Must be enrolled in one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled)

### **SPE 402 - Field Pract II in Spe Educ - 1** S

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Supervised practicum allows candidates to participate in two special education classrooms containing a range of disabilities. Students will complete 180 clock hours.

**Prerequisites:** AND Undergraduate level SPE 405  
Minimum Grade of C AND Undergraduate level SPE 430 Minimum Grade of C AND Undergraduate level SPE 450 Minimum Grade of C

**Corequisites:** SPE416, SPE417A, SPE471

### **SPE 405 - Foundations of SPE EDUC - 3** <sup>F</sup>

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Introduction to problems, characteristics and issues that impact the development of persons with disabilities. Not for Graduate Credit.

**Prerequisites:** Undergraduate level SPE 100 Minimum Grade of B

**Corequisites:** SPE401, SPE417A, SPE430A, SPE442

**Restrictions:** May not be enrolled as one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled)

### **SPE 412 - Assess f/Instrc Dec Making SPE - 3** <sup>F</sup>

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This course will emphasize processes and procedures for obtaining, interpreting and analyzing information to facilitate effective educational decision-making.

**Prerequisites:** Undergraduate level SPE 402 Minimum Grade of C AND Undergraduate level SPE 416 Minimum Grade of C AND Undergraduate level SPE 417A Minimum Grade of C AND Undergraduate level SPE 470 Minimum Grade of C AND Undergraduate level SPE 471 Minimum Grade of C

**Corequisites:** SPE417B, SPE418, SPE422, SPE430B

### **SPE 415 - Instructional & Assistive Tech - 3** <sup>M</sup>

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Overview of use of instructional and assistive technology. Course will review hardware, software, Internet technologies and application of assistive technology. Not for graduate credit.

**Prerequisites:** Undergraduate level SPE 100 Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled), Special Education

### **SPE 416 - Functional Curriculum Methods - 3** <sup>S</sup>

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Overview of functional curriculum methods for students with severe/multiple disabilities.

**Prerequisites:** Undergraduate level SPE 401 Minimum Grade of C AND Undergraduate level SPE 405 Minimum Grade of C AND Undergraduate level SPE 430 Minimum Grade of C AND Undergraduate level SPE 450 Minimum Grade of C

**Corequisites:** SPE402, SPE417A, SPE471

**Restrictions:** Must be enrolled in one of the following Majors: Special Education

### **SPE 417A - Intr Reading&LangArt Meth SpEd - 3** <sup>F</sup>

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Candidates will learn and apply foundational theory and methods for teaching reading and language arts to students with disabilities.

**Prerequisites:** Undergraduate level SPE 450 Minimum Grade of C

**Corequisites:** SPE401, SPE405, SPE430A, SPE442

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

### **SPE 417B - Adv Rdg & LangArt Meth in SpEd - 3**

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Candidates will learn and apply advanced methods of assessment and instruction in reading and language arts for teaching students with disabilities.

**Prerequisites:** Undergraduate level SPE 402 Minimum Grade of C AND Undergraduate level SPE 415 Minimum Grade of C AND Undergraduate level SPE 416 Minimum Grade of C AND Undergraduate level SPE 417A Minimum Grade of C AND Undergraduate level SPE 470 Minimum Grade of C AND Undergraduate level SPE 471 Minimum Grade of C AND Undergraduate level EPFR 315 Minimum Grade of C AND Undergraduate level EPFR 320 Minimum Grade of C

**Corequisites:** SPE412, SPE418, SPE422, SPE430B

**Restrictions:** Must be enrolled in one of the following Levels: Undergraduate

### **SPE 418 - Field Practicum III in Spec Ed - 3** <sup>F</sup>

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Supervised practicum requiring the application of knowledge and skills in teaching students with disabilities. Requires 180 hours in the field. Not For Graduate Credit.

**Prerequisites:** Undergraduate level SPE 402 Minimum Grade of C AND Undergraduate level SPE

416 Minimum Grade of C AND Undergraduate level  
SPE 417A Minimum Grade of C AND Undergraduate  
level SPE 471 Minimum Grade of C

**Corequisites:** SPE412, SPE417B, SPE422, SPE430B

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Ed (Dual  
Certificate), Special Ed (Emotion Disturbed), Special  
Ed (Edu Mentally HCPD), Special Ed (Learning  
Disabled)

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### **SPE 421 - Mathematics Methods in SPE - 3**

Preparation of pre-service teachers with knowledge  
and skill in the use of effective teaching techniques  
in mathematics for persons with disabilities. Not for  
Graduate credit.

**Prerequisites:** Undergraduate level SPE 402  
Minimum Grade of C AND Undergraduate level SPE  
416 Minimum Grade of C AND Undergraduate level  
SPE 417A Minimum Grade of C AND Undergraduate  
level SPE 471 Minimum Grade of C

**Corequisites:** SPE412, SPE417B, SPE418, SPE422

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Ed (Dual  
Certificate), Special Ed (Emotion Disturbed), Special  
Ed (Edu Mentally HCPD), Special Ed (Learning  
Disabled)

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### **SPE 422 - Adapt&Accomod Content-Area Ins - 3**

Provides pre-service teachers with the knowledge  
and skills to provide effective adaptations and  
accommodations for students with disabilities in  
content-area instruction.

**Prerequisites:** Undergraduate level SPE 402  
Minimum Grade of C AND Undergraduate level SPE  
415 Minimum Grade of C AND Undergraduate level  
SPE 416 Minimum Grade of C AND Undergraduate  
level SPE 417A Minimum Grade of C AND  
Undergraduate level SPE 470 Minimum Grade of C  
AND Undergraduate level SPE 471 Minimum Grade  
of C AND Undergraduate level EPFR 315 Minimum  
Grade of C AND Undergraduate level EPFR 320  
Minimum Grade of C

**Corequisites:** SPE412, SPE417B, SPE418, SPE430B

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Ed (Dual  
Certificate), Special Ed (Emotion Disturbed), Special

Ed (Edu Mentally HCPD), Special Ed (Learning  
Disabled)

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### **SPE 430 - Classrm Mgmt&Behav Support - 3**

Designing effective learning environments and  
individualized behavior support plans and applying  
research-based behavioral practices. Not for  
graduate credit.

**Prerequisites:** Undergraduate level SPE 100  
Minimum Grade of B

**Corequisites:** SPE401, SPE405, SPE450

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Ed (Dual  
Certificate), Special Ed (Emotion Disturbed), Special  
Ed (Edu Mentally HCPD), Special Ed (Learning  
Disabled), Special Education

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### **SPE 430A - Classroom Management - 3**

Designing effective learning environments that use  
evidence-based practices to prevent problems and  
support social interaction and appropriate classroom  
behavior.

**Corequisites:** SPE401, SPE405, SPE417A, SPE442

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Education

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### **SPE 430B - Individual Behavior Supports - 3**

Identifying and assessing problem behaviors; using  
data to design and implement evidence-based  
interventions for individuals with disabilities.

**Prerequisites:** Undergraduate level SPE 402  
Minimum Grade of C AND Undergraduate level SPE  
416 Minimum Grade of C AND Undergraduate level  
SPE 421 Minimum Grade of C AND Undergraduate  
level SPE 441 Minimum Grade of C AND  
Undergraduate level SPE 471 Minimum Grade of C

**Corequisites:** SPE412, SPE417B, SPE418

**Restrictions:** Must be enrolled in one of the  
following Majors: Special Education

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### **SPE 440 - Infants&Todd w/Sp Needs&Fam - 3**

Characteristics and interactions of infants and  
toddlers with special needs and their families;  
emphasizes collaboration with families and current

FM

research, theory and federal/state policies.

**Prerequisites:** Undergraduate level SPE 400  
Minimum Grade of D

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**SPE 441 - Assess Presch Childr w Spc Nds - 3** M

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Instruments for assessment of academic, cognitive, perceptual-motor development. Diagnosis and remediation.

**Prerequisites:** Undergraduate level SPE 440  
Minimum Grade of D

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**SPE 442 - Met&Prc f/Tch E Cldhd St w/Dis - 3** FM

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Knowledge and skills needed to provide educational services and supports to early childhood students with disabilities and their families. Requires 10 hours field experience. Not for graduate credit.

**Prerequisites:** Undergraduate level SPE 440  
Minimum Grade of D

**Corequisites:** SPE401, SPE405, SPE417A, SPE430A

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**SPE 450 - Inst Plan&Prof Collab i/SPE - 3**

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Course covers content in service delivery models, program planning and collaboration. Not for graduate credit.

**Corequisites:** SPE401, SPE405, SPE430

**Restrictions:** Must be enrolled in one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled), Special Education

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**SPE 470 - Transition Planning - 2** S

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Overview of transition planning and programming for students with disabilities. Not for graduate credit.

**Prerequisites:** Undergraduate level SPE 100  
Minimum Grade of B

**Restrictions:** Must be enrolled in one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled)

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**SPE 471 - School&Family Partnrshp for SPE - 3** S

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This course examines educational, psychological and political issues that arise when developing collaborative relationships between schools and families.

**Prerequisites:** Undergraduate level SPE 401  
Minimum Grade of C AND Undergraduate level SPE 405 Minimum Grade of C AND Undergraduate level SPE 430 Minimum Grade of C AND Undergraduate level SPE 450 Minimum Grade of C AND Undergraduate level SPE 100 Minimum Grade of B AND Undergraduate level SPE 100 Minimum Grade of B

**Corequisites:** SPE402, SPE416, SPE417A

**Restrictions:** Must be enrolled in one of the following Majors: Special Ed (Dual Certificate), Special Ed (Emotion Disturbed), Special Ed (Edu Mentally HCPD), Special Ed (Learning Disabled)

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**SPE 481 - Senior Seminar in SPE - 3** S

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Professional, ethical, and legal concerns of assessment; instruction, evaluation, behavior management, and technologies. Not for graduate credit. Prerequisite: All general education and special education requirements except SPE 499.

**Corequisites:** SPE499

**Restrictions:** Must be enrolled in one of the following Majors: Special Education

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**SPE 496 - Read & Ind Study in SPE - 1 to 6**

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Specific problem areas in education of individuals with disabilities. Topic conditions of study approved via contract. Not for graduate credit. Prerequisite: consent of instructor.

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**SPE 498 - Wks: Sel Topics in SPE - 3 to 6**

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Topical workshop on concepts, strategies, and concerns in special education. May be repeated to a maximum of 6 hours.

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**SPE 499 - Special Educ Stdt Teach - 12** S

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Teaching students with social and emotional

disorders under the immediate supervision of a cooperating teacher and the general supervision of a university instructor. The first student teaching experience must be 12 hours; the second or third experience is for 6 hours each. Not for graduate credit. Prerequisite: completion of all required coursework.

**Corequisites:** SPE481

**Restrictions:** Must be enrolled in one of the following Majors: Special Education

## Speech Pathology and Audiology (SPPA)

### **SPPA 101 - Human Comm and Disorders - 3** <sup>s</sup>

Introduction to speech, language and hearing disorders in people of all ages including assessment and treatment techniques.

### **SPPA 210 - Fund of Lang Analysis - 3**

Provides an introduction to human language with emphasis on clinical language analysis, specific to speech-language pathology and audiology majors.

**Prerequisites:** Undergraduate level SPPA 101 Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 220 - Anat & Phys SP Hr Mech - 3**

Structure and function of normal communication system.

**Prerequisites:** Undergraduate level SPPA 101 Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 231 - Phonetics - 3** <sup>F</sup>

Basic orientation to speech sounds including their individual differences, descriptions and transcriptions of typical and disordered speech.

**Prerequisites:** Undergraduate level SPPA 101 Minimum Grade of C (concurrency allowed) AND Undergraduate level SPPA 220 Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the

following Majors: Speech Lang Path and Audiology

### **SPPA 250 - Cultural Diversity in AH - 3**

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 applied health.

**Prerequisites:** Undergraduate level SPPA 101 Minimum Grade of C OR Undergraduate level PBHE 355 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Public Health, Speech Lang Path and Audiology

### **SPPA 312 - Norm Lang & Spc Acquisit - 3** <sup>s</sup>

Typical development of language, theory and milestones including phonology, morphology, syntax, semantics, and pragmatics.

**Prerequisites:** Undergraduate level SPPA 210 Minimum Grade of C (concurrency allowed) AND Undergraduate level SPPA 101 Minimum Grade of C (concurrency allowed)

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 321 - Hearing Science - 3** <sup>s</sup>

Study of the property of sound, including theories related to auditory physiology and perception.

**Prerequisites:** Undergraduate level SPPA 220 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 322 - Speech Science - 3** <sup>s</sup>

Basic orientation to the physiological components underlying the propagation, acoustics, and perception of the speech signal in normal human communication.

**Prerequisites:** Undergraduate level SPPA 231 Minimum Grade of C AND Undergraduate level SPPA 220 Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 351 - Comm Disorders Assoc w/Gen Syn - 3**

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This course will describe the characteristics of the speech, language and hearing disorders associated with a number of genetic syndromes.

**Prerequisites:** Undergraduate level BIOL 111  
Minimum Grade of D

### **SPPA 361 - Basic Audiometry - 3**

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Principles and techniques of pure tone and speech reception and immittance audiometry testing.

**Prerequisites:** Undergraduate level SPPA 321  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Language Pathology, Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 397 - Neuroanatomy and Physiology - 3**

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The brain and neural systems as they relate to normal and disordered communication and its application to clinical case studies.

**Prerequisites:** Undergraduate level SPPA 220  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

### **SPPA 400 - Independent Study in SPPA - 1 to 3**

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Investigative consideration of relevant topics not covered extensively in regular curriculum. May be repeated to a maximum of 9 hours. Requires consent of instructor.

### **SPPA 401 - SLPA Co-op - 0**

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Cooperative experience in speech-language pathology and audiology, consisting of various paid experiences or ones that span multiple terms.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 402 - SLPA Internship - 0**

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Internship in speech-language pathology and audiology, consisting of various non-paid experiences and limited to one term.

**Attributes:** COOP

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 414 - Special Topics - 1 to 6**

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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.

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 441 - Speech Sound Disorders Child - 3**

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An introduction to speech sound disorders in children; etiology, characteristics, assessment, and treatment; a theoretical and practical perspective.

**Prerequisites:** Undergraduate level SPPA 231  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 442 - Intro to Voice, Fluency, MSD - 3**

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Characteristics of voice, fluency and motor speech disorders including basic diagnostic and intervention strategies. Not for graduate credit.

**Prerequisites:** Undergraduate level SPPA 322  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

### **SPPA 444 - Lang Disords Acrss the Lifesp - 3**

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Etiology, assessment and intervention with individuals from infancy through adulthood with language disorders. Not for graduate credit.

**Prerequisites:** Undergraduate level SPPA 312  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology

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**SPPA 445 - Language Disorders of Adults - 3**

Etiology, assessment, and intervention with individuals with acquired communication disorders. Available for graduate credit. Prerequisite: SPPA 312, SPPA 320.

**Prerequisites:** Undergraduate level SPPA 312  
Minimum Grade of D AND (Undergraduate level SPPA 320 Minimum Grade of D OR Undergraduate level SPPA 220 Minimum Grade of D)

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**SPPA 446 - Clin Observ&Proc n/Comm Disor - 3** <sup>F</sup>

Basic orientation to clinical procedures and observations for therapeutic intervention and assessment. Not for graduate credit.

**Prerequisites:** Undergraduate level SPPA 312  
Minimum Grade of C

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology

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**SPPA 449 - Clinical Pract n/Spc Lang Path - 1 to 3**

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:** Undergraduate level SPPA 441  
Minimum Grade of C AND Undergraduate level SPPA 442 Minimum Grade of C AND Undergraduate level SPPA 444 Minimum Grade of C AND Undergraduate level SPPA 446 Minimum Grade of C AND Undergraduate level SPPA 461 Minimum Grade of C

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**SPPA 450 - Clin Proc n/ Med & Ed Settings - 3**

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: SPPA 441, SPPA 442, SPPA 444.

**Prerequisites:** Undergraduate level SPPA 441  
Minimum Grade of D AND Undergraduate level SPPA 442 Minimum Grade of D AND Undergraduate level SPPA 444 Minimum Grade of D

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**SPPA 452 - Assessment Procedures n/SPPA - 3**

Procedures in obtaining, recording, evaluating, and interpreting assessment results. Not for graduate credit.

**Prerequisites:** Undergraduate level SPPA 441  
Minimum Grade of C AND Undergraduate level SPPA 442 Minimum Grade of C AND Undergraduate level SPPA 444 Minimum Grade of C AND Undergraduate level SPPA 446 Minimum Grade of C AND Undergraduate level SPPA 461 Minimum Grade of C

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**SPPA 469 - Clin Proc Ind w.Hearing Disord - 1**

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:** Completion of SPPA 361 and 3.0 overall GPA.

**Restrictions:** Must be enrolled in one of the following Majors: Speech Language Pathology, Speech Lang Path and Audiology

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**SPPA 471 - Aural Rehabilitation - 3** <sup>S</sup>

Management of individuals with hearing impairments including auditory training, speech reading and counseling. Note for graduate credit.

**Prerequisites:** (Undergraduate level SPPA 461 Minimum Grade of C OR Undergraduate level SPPA 361 Minimum Grade of C)

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology, May not be enrolled as the following Departments:

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**SPPA 481 - Pro&Char o/Cld w/Hr Imp - 3**



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. Requires consent of instructor.

**Prerequisites:** Undergraduate level SPE 400  
Minimum Grade of D

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### **SPPA 498 - Augmentative& Alternative Comm - 3**

Examination of transdisciplinary field of augmentative and alternative communication (AAC) as well as to the assistive technologies and diagnostic/treatment approaches critical for AAC.

**Prerequisites:** Undergraduate level SPPA 444  
Minimum Grade of D AND Undergraduate level SPPA 446 Minimum Grade of D AND Undergraduate level SPPA 452 Minimum Grade of D

**Restrictions:** Must be enrolled in one of the following Majors: Speech Language Pathology, Speech Lang Path and Audiology

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### **SPPA 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.

**Prerequisites:** Undergraduate level SPPA 446  
Minimum Grade of C

**Corequisites:** SPPA471

**Restrictions:** Must be enrolled in one of the following Majors: Speech Lang Path and Audiology, Speech Pathology and Audiology, May not be enrolled as the following Classifications: Freshman, 1st Semester, Freshman, Junior, Sophomore

## **Statistics (STAT)**

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### **STAT 107 - Concepts of Statistics - 3** FMS

Basic concepts of descriptive statistics; probability distribution and inferential statistics (estimating parameters and testing hypotheses); sampling, experimental design, correlation and regression. Credit may not be granted for both 107 and 244.

**Attributes:** BICS, PS, SKST

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### **STAT 244 - Statistics - 4** FMS

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 STAT 107 and STAT 244. IAI course no. M1 902

**Attributes:** BICS, PS, SKST

**Prerequisites:** Undergraduate level MATH 120  
Minimum Grade of C OR Undergraduate level MATH 120E Minimum Grade of C OR Undergraduate level MATH 125 Minimum Grade of C OR Undergraduate level MATH 145 Minimum Grade of C OR Undergraduate level MATH 150 Minimum Grade of C

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### **STAT 380 - Statistics For Applications - 3** FMS

Descriptive statistics; basic probability rules and distributions; inferences for means; variances and proportions; design and analysis of experiments; and regression analysis.

**Attributes:** BICS, EL, PS, SKST

**Prerequisites:** Undergraduate level MATH 152  
Minimum Grade of C

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### **STAT 410 - Statistical Analysis - 3**

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 concentration or minor.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 130  
Minimum Grade of C OR Undergraduate level MATH 150 Minimum Grade of C

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### **STAT 478 - Time Series Analysis - 3**

Statistical analysis of time series. Regression and exponential smoothing. Box-Jenkins methodology.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 380  
Minimum Grade of C OR Undergraduate level STAT 480B Minimum Grade of C

### **STAT 480A - Introd to Mathematical Stat - 3** <sup>F</sup>

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Mathematical statistical theory. Probability models, distributions of random variables, sampling distributions, generating functions, central limit theorem, limiting distributions, parameter estimation, statistical hypotheses, and linear models. Must be taken in sequence.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 250  
Minimum Grade of C

### **STAT 480B - Introd to Mathematical Stat - 3** <sup>S</sup>

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Parameter estimation, statistical hypotheses, and linear models.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 480A  
Minimum Grade of C

### **STAT 481 - Design and Analysis - 3** <sup>S</sup>

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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. Crosslisted with IE 464.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 380  
Minimum Grade of C OR (Undergraduate level STAT 480A Minimum Grade of C AND Undergraduate level STAT 480B Minimum Grade of C)

### **STAT 482 - Regression Analysis - 3** <sup>F</sup>

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Inference in simple, multiple, polynomial and non-linear regression. Stepwise regression, subset selection; residual analysis, transformations and diagnostics.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 380  
Minimum Grade of C OR (Undergraduate level STAT 480A Minimum Grade of C AND Undergraduate level STAT 480B Minimum Grade of C)

### **STAT 483 - Sample Surveys - 3**

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Simple random sampling, stratified sampling, one-stage and two-stage cluster sampling. Ratio,

regression, difference estimation. Estimation of population size.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 380  
Minimum Grade of C OR (Undergraduate level STAT 480A Minimum Grade of C AND Undergraduate level STAT 480B Minimum Grade of C)

### **STAT 484 - Reliability Engineering - 3**

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Probabilistic models for the reliability of coherent systems. Statistical models for lifetimes of components and for repairable systems. Reliability estimation and production. MIL standards. Same as IE 463. Prerequisites: STAT 480b or STAT 380 or IE 365 with grades of C or better; or consent of instructor.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 480B  
Minimum Grade of C OR Graduate level STAT 480B  
Minimum Grade of C OR Undergraduate level STAT 380 Minimum Grade of C

### **STAT 485 - Stochastic Processes - 3**

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Markov chains with applications. Poisson processes. Markov processes with discrete states in continuous time. Renewal theory and queuing theory. Brownian motion and stationary processes.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 480A  
Minimum Grade of C

### **STAT 486A - Actuarial Mathematics - 3**

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Utility theory, risk models, survival distributions, life tables. Life insurance models, life annuities, premium calculation, and valuation theory for pension plans.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 340  
Minimum Grade of C AND (Undergraduate level STAT 380 Minimum Grade of C OR Undergraduate level STAT 480A Minimum Grade of C)

### **STAT 486B - Actuarial Mathematics - 3**

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Utility theory, risk models, survival distributions, life

tables. Life insurance models, life annuities, premium calculation, and valuation theory for pension plans.

**Attributes:** PS

**Prerequisites:** Undergraduate level MATH 340 Minimum Grade of C AND Undergraduate level STAT 380 Minimum Grade of C OR Undergraduate level STAT 480A Minimum Grade of C

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### **STAT 488 - Design & Cont of Quality Syst - 3**

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Quality design by experimental design; determination of process capability; quality control using statistical control charts; acceptance sampling. Same as IME 465.

**Attributes:** PS

**Prerequisites:** Undergraduate level STAT 480A Minimum Grade of C AND Undergraduate level STAT 480B Minimum Grade of C OR Undergraduate level IME 365 Minimum Grade of C

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### **STAT 489 - Stat Learning & Data Mining - 3**

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Survey of supervised learning methods and prediction models. Linear and logistical regression, linear discriminant analysis, resampling, regularization, generalized additive models, decision trees, bagging and boosting.

**Prerequisites:** STAT 380 with a C or better or admission to graduate Math and programming experience or consent of instructor.

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### **STAT 490 - Topics in Statistics - 1 to 3**

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Selected topics in statistics.

**Attributes:** PS

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### **STAT 495 - Independent Study - 1 to 3**

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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. Requires written consent of adviser and instructor.

**Attributes:** PS

## **Surveying (SURV)**

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### **SURV 264 - Surveying Fundamentals - 4**

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Surveying applications for construction. Prerequisite: CNST 120 and MATH 150 with minimum grade of D (concurrent enrollment allowed).

**Prerequisites:** Undergraduate level CNST 120 Minimum Grade of D (concurrency allowed) AND Undergraduate level MATH 150 Minimum Grade of D (concurrency allowed)

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### **SURV 310 - Legal Aspects of Surveying - 3**

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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:** Undergraduate level CNST 264 Minimum Grade of D OR Undergraduate level SURV 264 Minimum Grade of D

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### **SURV 364 - Boundary Surveying - 3**

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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.

**Prerequisites:** Undergraduate level CNST 310 Minimum Grade of D OR Undergraduate level SURV 310 Minimum Grade of D

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### **SURV 470 - Internship - 3**

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Acquisition of hands-on experience in the management of a typical surveying project. The jobsite becomes the classroom. Not for Graduate Credit. Prerequisite: CNST 341, completion or concurrent enrollment in the OSHA 10-hour safety course; senior standing and/or consent of instructor.

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### **SURV 482 - Advanced Survey Systems - 4**

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Celestial observations and GPS. Surveying instrumentation, operation, error sources, and calibration.

**Prerequisites:** Undergraduate level CNST 310

Minimum Grade of D OR Undergraduate level SURV 310 Minimum Grade of D

### **SURV 484 - Survey Comps and Apps - 4**

Application of celestial observations and GPS to boundary, topographic, route surveying, and subdivision design. Analysis and adjustment of errors.

**Prerequisites:** Undergraduate level CNST 482 Minimum Grade of D OR Undergraduate level SURV 482 Minimum Grade of D

## **Theater & Dance (THEA)**

### **THEA 111 - The Dramatic Experience - 3** FMS

Introductory course to give student understanding of how essential components of theater work together to produce dramatic experience. [INTRO] [IAI COURSE NO. F1 907]

**Attributes:** BFPA, IFAH

### **THEA 112A - Core: Acting I Intro to Act - 3** FS

[DIST. FAH] Fundamentals of acting combining improvisational exercises with method approach to developing a role emphasis on relaxation, imagination, concentration, and objectives. Open to non-majors.

**Attributes:** DFAH, FPA

### **THEA 112B - Core: Act 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: THEA 112A. [DIST. FAH]

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 112A Minimum Grade of D

### **THEA 114A - Core: Forms o/Dramatic Act - 3** F

Principles of dramatic action as exemplified in selected plays. Relationships between theatrical process and dramatic form in tragedy and comedy. Requires major status or consent of instructor.

**Attributes:** DFAH, FPA

**Restrictions:** Must be enrolled in one of the following Majors: Theater and Dance, Theater

### **THEA 114B - Core: Forms o/Dramatic Act - 3** S

Principles of dramatic action as exemplified in selected plays. Relationships between theatrical process and dramatic form in tragedy and comedy. Requires major status or consent of instructor.

**Attributes:** DFAH, FPA

**Restrictions:** Must be enrolled in one of the following Majors: Theater and Dance, Theater

### **THEA 141 - Film Analysis - 3** FS

Fundamentals of film analysis studied as skill essential to understanding of narrative visual media. (DIST. FAH) [IAI COURSE NO. F2 905]

**Attributes:** DFAH, FPA

### **THEA 150 - Core: Scene Design & Const - 4** FS

Designing and executing of scenery used in theater productions. Laboratory and production work are required. Requires consent of instructor.

**Attributes:** DFAH, FPA

### **THEA 160 - Core: Costume Design & Const - 4** F

Designing and executing of costumes used in theater productions. Laboratory and production work are required. Requires consent of instructor.

**Attributes:** DFAH, FPA

### **THEA 170 - Intro to Lighting & Stage Mgmt - 0 or 3** S

Fundamentals of lighting design, technology and stage management as used in theater production. Production work is required.

**Attributes:** DFAH, FPA

### **THEA 199 - Theater Production - 0** FMS

Practical work on university theater productions. Backstage work in scenery, lighting, costumes, props, sound, or makeup. Work to be arranged for

individual needs and interests.

**Attributes:** FPA

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**THEA 201A - Core: History of the Theater - 3** <sup>F</sup>

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Drama, performance, architecture, design and cultural environment of primitive, Greek, Roman Medieval, and Renaissance. Not for graduate credit. [DIST. FAH] [IAI course no. F1 908]. Prerequisite: THEA 114 A & B.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 114A Minimum Grade of D AND Undergraduate level THEA 114B Minimum Grade of D

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**THEA 201B - Core: History of the Theater - 3** <sup>S</sup>

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Drama, performance, architecture, design and cultural environment of restoration, eighteenth century, romantic, and modern. Not for graduate credit. [IAI course no. F1 909].

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 114A Minimum Grade of D AND Undergraduate level THEA 114B Minimum Grade of D

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**THEA 205 - Thea Bus Mgmt Prac - 1 to 3**

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Principles of management systems organization. Practice as applied to performing arts units mission development, personnel selection, funding, budgeting, promotion, and operational continuity internship. [DIST. FAH] Not for graduate credit.

**Attributes:** DFAH, FPA

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**THEA 210A - Act III :Comedy & Charact - 3**

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Exercises and scene work introducing external techniques for physical/vocal characterization and comedy. Prerequisite: THEA 112 A & B.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 112A Minimum Grade of D AND Undergraduate level THEA 112B Minimum Grade of D

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**THEA 210B - Improvisation - 3**

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Building the imagination and extending vocal and physical skills through use of improvisation exercises, scenes, and stories. Requires consent of instructor.

**Attributes:** DFAH, FPA

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**THEA 215A - Movemt & Voice F/Stage - 3** <sup>S</sup>

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Principles of stage movement and theatrical vocal techniques: vocal production, vocal and physical characterization, introduction to dialect study and stage combat. Requires consent of instructor.

**Attributes:** DFAH, FPA

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**THEA 215B - Stage Combat - 3**

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Basic empty handed combat for the stage. Safety stressed and choreography explored. Weaponry may be introduced. Requires consent of instructor and good physical health.

**Attributes:** DFAH, FPA

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**THEA 220 - Core: Directing for the Stage - 3** <sup>S</sup>

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Elements of director's craft: interpretation, composition and blocking, design and technical considerations, working with actors and directing a scene. (DIST. FAH) Prerequisites: THEA 112a, THEA 150, THEA 160 or THEA 170.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 112A Minimum Grade of D AND Undergraduate level THEA 150 Minimum Grade of D AND Undergraduate level THEA 160 Minimum Grade of D OR Undergraduate level THEA 170 Minimum Grade of D

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**THEA 230 - Reh and Perform Ance - 2 to 3**

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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.

**Attributes:** FPA

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**THEA 235 - Intro to T'ai Chi Ch'uan - 2**

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"Slow motion" exercise that promotes relaxation,

circulation, balance, and flexibility. Includes principles and postures from short form of yang style T'ai Chi Ch'uan.

**Attributes:** FPA

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### **THEA 241 - Classic Film - 3**

Highlights of narrative film history with emphasis on periods and movements which have had enduring influence on contemporary film. (DIST. FAH)  
Prerequisite: THEA 141 or consent of instructor.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 141  
Minimum Grade of D

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### **THEA 255 - Scene Painting F/Theater - 2**

Traditional and contemporary techniques include layout, cartooning, lining, textures, and color. Studio work. Prerequisite: THEA 150, THEA 160 recommended.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 150  
Minimum Grade of D AND Undergraduate level THEA 160  
Minimum Grade of D

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### **THEA 265 - Theater Makeup - 2**

Design and application techniques using pancake, grease paint, prosthetics, and crepe hair. Projects include character, old age, ethnic, and fantasy makeup. Requires consent of instructor.

**Attributes:** FPA

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### **THEA 275 - Sound for the Theater - 3**

Design and practical operations, including computer programs, sound control, acoustics, loudspeakers, underscoring, and sound effects.

**Attributes:** BICS, FPA

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### **THEA 276 - Projects in Stage Mgmt - 1 to 3**

Practical experience serving as stage assistant director and/or stage manager for university or student experimental theater productions. May be repeated to a maximum of 9 hours. Prerequisites: THEA 150, THEA 160, approval of director of

production, and consent of instructor

**Attributes:** FPA

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### **THEA 290 - Special Projects - 1 to 3**

Individual work in any area of theater. May be repeated to maximum of 6 hours. Requires consent of instructor.

**Attributes:** FPA

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### **THEA 295 - Theater Practicum - 1 to 3**

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. Requires consent of instructor.

**Attributes:** FPA

---

### **THEA 298 - Intro to Theater Ed n/Sec School - 3**

Philosophies of arts education, focusing on teaching theater arts in secondary school. Planning and executing of lesson plans and productions in secondary school. Prerequisite: Must have passed the designated basic skills test (TAP).

**Attributes:** FPA

---

### **THEA 309 - Musical Theater Wkshop - 3**

Preparation and performance of musical comedy scenes in a variety of styles: acting, singing, dancing ensemble, and solo work. May be taken twice. Must have completed all Theater and Dance core courses. This restriction does not apply to non-theater and Dance majors or minors. Requires consent of instructor.

**Attributes:** DFAH, FPA

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### **THEA 310A - Acting IV: Period Styles - 3**

A variety of theater genres are explored through their language, physicalization, history, and dramatic literature. Scenes/monologues performed from each period/style.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 112B  
Minimum Grade of D AND Undergraduate level  
THEA 215A Minimum Grade of D

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**THEA 310B - Acting VI: Intern /Exper Styles - 0  
or 3**

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Utilization of international and experimental  
performance techniques, designed to promote global  
and contemporary aesthetics and abilities.  
Prerequisites: Junior standing or consent of  
instructor.

**Attributes:** EGC, FPA, IC

**Restrictions:** Must be enrolled in one of the  
following Classifications: Junior

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**THEA 312 - Multi-Cultural Thea in America - F  
3**

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Facilitate understanding of multicultural theater in  
America through discussion, performance, and play  
readings centered around artists of different ethnic  
backgrounds.

**Attributes:** DFAH, EUSC, FPA, IGR

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**THEA 315A - Dialects for the Stage - 3**

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Foreign and American dialects. Scenes and  
monologues performed in dialect. International  
Phonetic Alphabet (IPA) introduced.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 112A  
Minimum Grade of D

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**THEA 315B - Advanced Movement - 3**

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Character masks, neutral masks, and other  
movement techniques are used for characterization,  
awareness, body and stage presence.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 112B  
Minimum Grade of D AND Undergraduate level  
THEA 215A Minimum Grade of D

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**THEA 340A - Theater Graphics - 3**

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Theatrical drawing, painting, and drafting by hand,  
including perspective drawing, figure drawing,  
watercolor rendering, and set and pattern drafting.

**Attributes:** BFPA

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**THEA 340B - Computers in Theater - 3**

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CAD drafting for scenery and lighting, three-  
dimensional imagery and printing, digital drawing  
and painting, pattern drafting, introduction to  
projection design.

**Attributes:** FPA, SKCP

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**THEA 350 - Scene Design - 3**

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Advanced study of rendering techniques. Design  
projects, critique sessions and research techniques.  
May be taken twice.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 250  
Minimum Grade of D OR Undergraduate level THEA  
340A Minimum Grade of D

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**THEA 360 - Costume Design - 3**

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Theory, rendering techniques, history of dress and  
costume construction techniques, research period  
silhouettes and character presentation. Laboratory  
work on university theater productions required.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 160  
Minimum Grade of D

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**THEA 370 - Advanced Lighting Design - 3**

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Lighting concepts and sensitivity to lighting  
environments. Lighting plans, light plots, schedules  
and section drawings. Laboratory work on university  
theater productions required.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 170  
Minimum Grade of D

---

**THEA 392 - American Musical Theater - 3**

---

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.

**Attributes:** BFPA

### **THEA 394 - Playwriting - 3**

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Provides a close acquaintance with a range of theatrical strategies explore by playwrights and a workshop forum for the development of students' own writing. Prerequisite: ENG 102, Sophomore standing. Cross-listed with ENG 394. [DIST. FAH]

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level ENG 102

Minimum Grade of C

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

### **THEA 398 - Adv Stds i/Thea Ed in Sec Sch - 3**

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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: must have completed all theater and dance core courses. This restriction does not apply to non-Theater and Dance majors/minors. Prerequisite: Consent of instructor, must have passed the designated basic skills test (TAP).

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 298

Minimum Grade of D

### **THEA 399 - Special Topics in Theater - 1 to 3**

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Varied content. Topics related to theater and/or dance. May be repeated up to 6 hours as long as no topic is repeated. Prerequisite: consent of instructor.

**Attributes:** DFAH, FPA

### **THEA 410 - Acting As A Career - 3**

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F

Information and skills necessary to gain professional work as an actor or acting teacher. Auditions, photographs, interviews, cold-readings, commercials, voice tapes, and introduction to television acting. Not for graduate credit. Prerequisite: Senior performance major or consent of instructor.

**Attributes:** DFAH, FPA

**Restrictions:** Must be enrolled in one of the following Majors: Theater and Dance, Must be enrolled in one of the following Classifications:

Senior

### **THEA 412 - Acting for the Camera - 3**

---

Acting principles and techniques. Exercises, commercials, and scenes from television and movie scripts will be video-taped and critiqued for on-camera effectiveness. Prerequisite: Consent of instructor.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 112A

Minimum Grade of D

### **THEA 420 - Projects in Directing - 3**

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Direction of plays staged for performance. Analysis of script, development of director's prompt book, rehearsal procedure, and collaborative work with designers. Done under faculty supervision. May be repeated to a maximum of 6 hours. NOT FOR GRADUATE CREDIT. Prerequisite: THEA 220 and consent of instructor.

**Attributes:** DFAH, FPA

**Prerequisites:** Undergraduate level THEA 220

Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

### **THEA 430 - Rehearsal and Performance - 2 to 3**

---

Acting practicum in stage productions developed for public performance. Role analysis, ensemble playing, rehearsal, and performance discipline. May be repeated with consent of instructor. Not for graduate credit. Prerequisite: must be cast in theater production.

**Attributes:** FPA

### **THEA 450 - Adv Scene Design Projects - 1 to 3**

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S

Advanced practical work on studio or university theater productions. May be repeated to max of 9 hours. NOT FOR GRADUATE CREDIT. Prerequisite: THEA 350 and consent of instructor.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 350

Minimum Grade of D



**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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**THEA 460 - Advanccd Costume Design  
Project - 1 to 3**

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Advanced practical work on studio or University Theater productions. May be repeated to max of 9 hours. Not for graduate credit. Prerequisites: THEA 360 and consent of instructor.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 360  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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**THEA 470 - Advan Lighting Design Projects -  
1 to 3**

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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: THEA 370 and consent of instructor.

**Attributes:** FPA

**Prerequisites:** Undergraduate level THEA 370  
Minimum Grade of D

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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**THEA 475 - Adv Stagecraft Projects - 1 to 3**

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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. Must have completed all Theater and Dance core courses. This restriction does not apply to non-Theater and Dance majors or minors. Requires consent of instructor.

**Attributes:** FPA

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**THEA 485 - Spec Proj in Computers - 1 to 3**

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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 or

graduate standing and consent of instructor.

**Attributes:** FPA

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**THEA 490 - Special Projects - 1 to 3**

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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.

**Attributes:** FPA

---

**THEA 495 - Theater Practicum - 1 to 3**

---

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. Requires consent of instructor.

**Attributes:** FPA

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**THEA 498 - Independent Study - 1 to 3**

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Individual or small group readings under supervision of faculty member. May be repeated to a maximum of 6 hours.

**Attributes:** FPA

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**THEA 499A - Performance - 3**

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Performance. Individual/group projects demonstrating proficiency in theater applications and general education skills and knowledge. Requires Senior standing and consent of instructor.

**Attributes:** FPA

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

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**THEA 499B - Design/Technical - 3**

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Design/technical. Individual/group projects demonstrating proficiency in theater applications and general education skills and knowledge. Requires Senior standing and consent of instructor.

**Attributes:** FPA

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### **THEA 499C - Theater History/Lit/Criticism - 3**

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(c) Theater History/Literature/Criticism.  
Individual/group projects demonstrating proficiency in theater applications and general education skills and knowledge. Prerequisites: senior standing and consent of instructor.

**Attributes:** FPA

**Restrictions:** Must be enrolled in one of the following Classifications: Senior with Degree, Senior

### **University Experience (UNIV)**

#### **UNIV 300 - Exploring Leadership - 3**

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Designed to provide an understanding of the theory and foundation of leadership. Opportunities to explore leadership skills will be provided.

### **Women's Studies (WMST)**

#### **WMST 200 - Issues in Feminism - 3** FS

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Beliefs, values, and commitments of the women's movement and their implications for lives of both women and men. [DIST. FAH, DIST. SS, IGR]

**Attributes:** BSS, DFAH, DSS, EUSC, IGR

#### **WMST 300 - Women's Health - 3**

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Explores health trends that affect women. Analysis of psychosocial influences on health with particular emphasis on the link between wealth and health. Crosslisted with HED 300.

#### **WMST 305 - Psychology of Gender - 3** FMS

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Psychological and cultural history of gender, changing sex roles, socialization, sexuality, issues related to mental health, stereotyping, cognition. Same as PSYC 305.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level PSYC 111  
Minimum Grade of D

#### **WMST 308 - Gender & Society - 3** FMS

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Sociological and feminist perspectives on women in American society with an emphasis on institutions

which create, maintain, and reproduce gender and gender inequality. Same as SOC 308.

**Attributes:** BSS, DSS, EUSC, IGR

#### **WMST 310 - Sexualities and Society - 3** M

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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.

**Attributes:** BSS, DSS

#### **WMST 313 - Women n/Crssl Cultl Perspect - 3**

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Comparisons of positions, roles, and problems of women in contemporary cultures from selected world areas and socioeconomic levels. Anthropological perspectives on issues of women's studies. Same as ANTH 313.

**Attributes:** BSS, DSS, EUSC, IGR

#### **WMST 315 - Fam & Househld Cr-Cultr Pers - 3**

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Examines family and household forms in a variety of historical and cultural contexts; explores family experiences through films, narratives and ethnographies.

**Attributes:** BSS, DSS, EGC, IC

#### **WMST 331 - Gender & Communication - 3** M

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Investigation of the influences of gender on the communication process. Activities, exercises and presentations, sensitize students to gender influence on verbal and nonverbal communication. Cross-listed with SPC 331.

**Attributes:** DFAH, EUSC, HUM, IGR

#### **WMST 341 - Afr. American Women's Writing - 3** F

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Poems, novels, short stories, essays, dramas, autobiography and other texts by African-American women writers during various periods from colonial to contemporary times. Same as ENG 341. [DIST. FAH, IGR]

**Attributes:** BHUM, DFAH, EUSC, IGR

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**WMST 344 - Women and Values - 3**

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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 WMST or PHIL course.

**Attributes:** BHUM, DFAH, EUSC, IGR

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**WMST 345 - Women, Knowledge & Reality - 3**

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The course surveys various feminist theories of knowledge, with particular attention to science and how gender influences our claims to knowledge. Same as WMST 345

**Attributes:** BHUM, DFAH, EUSC

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**WMST 346 - Feminist Theory - 3**

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Social philosophy from feminist perspective. Major theoretical works of women's movement. Cross-listed with PHIL 346.

**Attributes:** BHUM, DFAH, EUSC, IGR

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**WMST 350 - Women in Social Institutions - 3**

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Historical, cultural, and social class differences in contexts of education, family, health care, economics, religion, and politics. Cross-listed with IS 350.

**Attributes:** EUSC, IGR, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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**WMST 351 - Women in Mass Comm - 3**

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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. [DIST. FAH, IGR]

**Attributes:** DFAH, EUSC, HUM, IGR

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**WMST 352 - Women in the Ancient World - 3**

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History, political and social lives, and literary and artistic representations of/by women in ancient Egypt, Mesopotamia, Greece and Rome. Prerequisite: Junior or Senior standing. Same as IS 352. [IS, IC, IGR]

**Attributes:** EGC, EUSC, IC, IGR, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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**WMST 353 - Rep Women's Bodies 0300-1500 - 3**

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Evolution of the ideological construction of the female body as weak or deformed, and the need to transform it so as to be full human and attain salvation.

**Attributes:** EGC, IC, IS

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Visiting Student

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**WMST 354 - Women & Cross Natl Pol - 3**

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Women as citizens and as political leaders in the areas of politics, labor, peace, war and violence.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 111  
Minimum Grade of D

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**WMST 367 - Gender and Criminal Justice - 3**

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Explores issues of gender in criminal justice, particularly with regard to offending, victimization, processing, incarcerating, rehabilitating and among professionals in the field.

**Attributes:** SS

**Restrictions:** May not be enrolled as the following  
Levels: Graduate

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**WMST 390 - Special Problems - 3**

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Varying topics in the study of gender bearing directly on women's experience. May be repeated for maximum of 6 hours provided no topic is repeated. [DIST. SS]

**Attributes:** DFAH, DSS

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**WMST 391 - Marriage and Family - 3** <sup>FS</sup>

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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; and divorce/remarriage. Same as SOC 391. [DIST. SS]

**Attributes:** BSS, DSS

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**WMST 394 - Sociology of the Black Family - 3**

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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. Same as SOC 394.

**Attributes:** DSS, EUSC, IGR, SS

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**WMST 428 - Topics in Erpn Women's Hist - 3**

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Selected topics in women's history since the middle ages. Chronological framework will vary from semester to semester. Same as HIST 428. [DIST. SS, II]

**Attributes:** BHUM, DSS, EGC, II

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**WMST 440 - Women in Am Social History - 3**

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Women from various social classes; ethnic and racial groups; and geographic regions. Social institutions such as family, church, schools, etc. Colonial era to present. Cross-listed with HIST 440. [DIST. SS, IGR]

**Attributes:** BSS, DSS, EUSC, IGR

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**WMST 441 - Women and Politics in America - 3**

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Consideration of politics and power in gender roles, family, class, occupation and research, women and the political system and women and public policy.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of D

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**WMST 442 - Gender and Lawmaking - 3**

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This course explores the role of gender in the process of making law, including activism, lobbying, staff-work, elected lawmaking positions, and the court system.

**Attributes:** BSS, DSS, EUSC, IGR

**Prerequisites:** Undergraduate level POLS 112  
Minimum Grade of C OR Undergraduate level WMST 200 Minimum Grade of C

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**WMST 444 - Gen, Ethnic & Clss n/ Wkplc - 3**

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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. WMST 444 is not for graduate credit. Cross-listed with SOC 444. [DIST SS, IGR]

**Attributes:** BSS, DSS, EUSC, IGR

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**WMST 445 - American Masculinity - 3**

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(Same as HIST 445) Gender history exploring the different manifestations of manhood as it has been constructed by Americans from the seventeenth century to the present.

**Attributes:** DFAH, EUSC, HUM, IGR

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**WMST 451 - Gender and Education - 3** <sup>S</sup>

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Policies and practices related to sex-role stereotyping, teacher expectations and gender, curricular bias, discrimination, personnel policies, strategies for change. Cross-listed with EPFR 451. [IGR]

**Attributes:** EUSC, IGR

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**WMST 452 - Native American Women - 3**

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Investigates Native American gender roles, particularly women's roles, from an ethnohistorical perspective.

**Attributes:** BHUM, DSS, EUSC, IGR

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**WMST 455 - Women and Gender Islamic Hist - 3**

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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.

**Attributes:** BSS, DSS, EGC, IC

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**WMST 456 - Sem On Women Writers - 3**

Fiction, nonfiction, drama, and poetry. Taught in English. For credit in FL, term paper must be written in French. Cross-listed with FR 456. [DIST. FAH, IC]

**Attributes:** BHUM, DFAH, EGC, IC

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**WMST 473 - Women in Art - 3**

History of women artists from the Renaissance to the present.

**Attributes:** ARTH, DFAH, EGC, FPA, IC

**Prerequisites:** Undergraduate level ART 225B  
Minimum Grade of C

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**WMST 478 - Stds in Wmn, Lang Usage & Lit - 3**

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. [DIST. FAH, IGR]

**Attributes:** BHUM, DFAH, EUSC, IGR

**Restrictions:** May not be enrolled as the following  
Classifications: Freshman, 1st Semester, Freshman, Sophomore

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**WMST 490 - Special Problems - 3**

Varying topics, in depth study of gender and women's experience or feminist theory. Content and format to be arranged with instructor. May be repeated for a maximum of 6 hours provided no topic is repeated. Requires consent of department chair or program director.

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**WMST 495 - Independent Study - 1 to 4**

Individual research in women's experience or feminist theory. Content and format to be arranged with instructor. Requires consent of department chair or program director.

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**WMST 499 - Practicum in Women's Studies - 3**

Practical learning experience in women-oriented activities or organizations. Ten hours weekly plus readings or paper. Requires consent of department chair or program director.

