Environmental Science: Business Option

Bachelor of Science (BS)

Environmental quality is fundamental to our quality of life. Environmental science seeks to preserve and improve our environment for ourselves and future generations.

Environmental science is an inter-departmental, interdisciplinary degree program based in the College of Science, Technology and Agriculture. It is a diverse, hybrid field of study that is based upon strong training in the natural sciences, mathematics, law, economics, and health.

The curriculum for the B.S. in environmental science consists of a core of approximately 60 credit hours and 20-30 additional credit hours in one of six degree option areas. All students participate in internships and/or research. This education and training provides multiple opportunities for graduates in the growing environmental field.

Environmental Science students will...
- Complete a science-intensive interdisciplinary curriculum providing a foundation to address environmental issues of today and the future.
- Study in modern classrooms and laboratories in the remodeled Magill Hall of Science.
- Gain valuable professional and personal experiences through internships and/or research.
- Be well prepared to enter career positions in the environmental field or to pursue post-baccalaureate education programs.
- Develop competencies to become professional and community leaders in efforts to develop a sustainable society.

Career Planning

Approximately 70% of environmental science graduates directly enter the work force. All graduates seeking employment in the environmental field have obtained a relevant career position.

Approximately 30% of environmental science graduates continue their education in graduate programs in the sciences, law school, MBA programs, or medical school.

Each student works individually with a faculty advisor in their area. The advisor assists students with curricular planning and development of career goals. Professional career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

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<thead>
<tr>
<th>Demonstrated Career Proficiency is a Requirement of all Southeast Students</th>
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<tr>
<td><strong>CL001/CL002</strong></td>
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<td><strong>CL003</strong></td>
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<td><strong>CL004</strong></td>
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Internship, Employment, and Post-Baccalaureate Opportunities of Recent Graduates

- U.S. Environmental Protection Agency
- Missouri Department of Conservation
- U.S. Green Building Council
- Centers for Disease Control and Prevention
- Illinois Natural History Survey
- A.T. Still University School of Osteopathic Medicine
- Science Applications International Corporation
- Missouri Department of Natural Resources
- Saint Louis University School of Law
- U.S. Fish and Wildlife Service
- Southern Illinois University - Edwardsville
- CH2M Hill Inc.
- KRCU National Public Radio
- Missouri Botanical Garden
- Emory University
- Burns & McDonnell Engineering Co. Inc.
- Illinois Environmental Protection Agency
- St. Louis County Department of Health
- U.S. Army Corps of Engineers
- Saint Louis Zoological Park

Demonstrated Career Proficiency is a Requirement of all Southeast Students

<table>
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<tr>
<th>First Semester</th>
<th>Complete the FOCUS2 assessment and develop a Career Action Plan.</th>
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<tr>
<td>Junior Year</td>
<td>Students gain information about career planning and job searching resources.</td>
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<tr>
<td>Senior Year</td>
<td>Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search.</td>
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This is a guide based on the 2015-2016 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use DegreeWorks to monitor their individual progress.

**CURRICULUM CHECKLIST**

**Environmental Science: Business Option – 80-84 Hours**

- BI153 Introduction to Organismal Biology (4)
- BI332 General Ecology (3)
- BS105 Environmental Biology (3) (Living Systems)
- CH185/085/005 General Chemistry (5) (Physical Systems)
- CH186 Foundations of Inorganic Chemistry (3)
- EC344 Environmental Economics (3)
- EV201 Environmental Science Seminar I (1)
- EV401 Environmental Science Seminar II (1)
- EV454 Risk Assessment Applications (3)
- EV481-483 Internship (3)
  OR
  - EV491-493 Research (3)
  - EV xxx EV Course (300-500 level) (3)
- GO110 Physical Geology (3)
- GO365 Environmental Soil Science (3)
- GO460 Environmental Hydrology (3)
- MA139 Applied Calculus (3) (Logical Systems)
  OR
  - MA140 Analytical Geometry & Calculus I (5)
  - MA223 Elementary Probability & Statistics (3)
- PH106 Physical Concepts (3)
  OR
  - PH120 Introductory Physics I (5)
- UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Behavioral Systems, Development of a Major Civilization, Political Systems, and Social Systems.

Choose 6 Hours From:

- UI331 Foundations of Biochemistry (3)
- UI360 Recycling & Waste Management (3)
- UI373 Earth and LifeThrough Time (3)
- UI386 Environmental Health (3)
- UI387 Environmental Law & Public Policy (3)

**Business Option – 21 Hours Required**

- AC221 Principles of Accounting I (3)
- AC222 Principles of Accounting II (3)
- EC225 Principles of Macroeconomics (3)
- FI361 Financial Management (3)
- MG301 Principles of Management (3)
- MI375 Management Information Systems (3)
- MK301 Principles of Marketing (3)

**University Studies Requirements (not already listed above):**

UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Behavioral Systems, Development of a Major Civilization, Political Systems, and Social Systems.

**SAMPLE FOUR-YEAR PLAN**

**Fall Semester**  | **Spring Semester**
---|---
Course # | Hrs | Course # | Hrs
---|---|---|---
UI100 | 3 | BI153 | 4
EN100 | 3 | CH185/085/005 | 5
AD101 | 3 | EC215 | 3
BS105 | 3 | Written Expression | 3
Artistic Expression | 3 | Total | 15 | Total | 15
**FIRST YEAR**

- Milestone: maintain 2.0 cumulative GPA
- Total: 15-17 | Total: 16

- Spring courses are encouraged to avoid semesters exceeding 15 hours

**SECOND YEAR**

- CH186 | 3 | AC221 | 3
- EC225 | 3 | BI332 | 3
- GO110 | 3 | EC344 | 3
- MA139 or MA140 | 3-5 | EV201 | 1
- Literary Expression | 3 | GO365 | 3
- Oral Expression | 3 | Total | 15-17 | Total | 16

- Milestone: maintain 2.0 cumulative GPA

**THIRD YEAR**

- AC222 | 3 | EV454 | 3
- MA223 | 3 | FI361 | 3
- MG301 | 3 | GO460 | 3
- PH106 or PH120 | 3-5 | MK301 | 3
- Behavioral Systems | 3 | Develop of a Major Civ | 3

- Total: 15-17 | Total: 15

- Milestone: maintain 2.0 cumulative GPA

**FOURTH YEAR**

- EV Internship/Research | 3 | EV401 | 1
- MI375 | 3 | EV elective | 3
- Required UI3XX | 3 | Required UI3XX | 3
- Political Systems | 3 | UI429 | 3
- Elective | 2 | Social Systems | 3
- Elective | 2 | Total | 14 | Total | 15

- Milestone: maintain 2.0 cumulative GPA

A “Milestone” signifies a significant stage for a student in the completion of a degree.

**Degree requirements for all students:** a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the senior level.

A minimum 2.00 GPA in the major and overall are required to graduate with a BS in Environmental Science degree.

Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.

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