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.

The Office of Career Services in Academic Hall 057 can provide students with professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

| Demonstrated Career Proficiency is a Requirement of all Southeast Students |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| **CL001** First Semester    | Students connect academic career planning by completing an online career assessment.          |
| **CL002** Second Semester   | Students learn more about resources available to enhance academic and career planning.          |
| **CL003** Junior Year       | Students learn about continued career planning, job search strategies, and networking.          |
| **CL004** Senior Year       | Students learn about resume development, professional communication, interviewing, and transitioning to the first job from college |

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

Special Options with Environmental Science
Southeast offers a Master of Science in Environmental Science.
This is a guide based on the 2017-2018 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: Biology Option – 65-69 Hours**

- BI163 Evolution & Ecology (4)
- BS32 General Ecology (3)
- BS105 Environmental Biology (3)
- CH185/085/005 General Chemistry (5)
- CH186 Foundations of Inorganic Chemistry (3)
- EC344 Environmental Economics (3)
- EN190 Writing & the Environment (3)
- EV201 Environmental Science Seminar I (1)
- EV400 Environmental Physics (3)
- EV401 Environmental Science Seminar II (1)
- EV454 Risk Assessment Applications (3)
- EV461-493 Internship (3)
- EV491-493 Research (3)
- EV xxx EV Course (300-500 level) (3)
- GO110 Physical Geology (3)
- GO386 Environmental Soil Science (3)
- GO460 Environmental Hydrology (3)
- MA139 Applied Calculus (3)
- MA140 Analytical Geometry & Calculus I (5)
- MA223 Elementary Probability & Statistics (3)
- MA106 Physical Concepts (3)
- PH120 Introductory Physics I (5)
- UH29 Environmental Ethics (3)

**Choose 6 Hours From:**

- UI331 Foundations of Biochemistry (3)
- UI360 Recycling & Waste Management (3)
- UI370 Media Ethics (3)
- UI373 Earth and Life Through Time (3)
- UI386 Environmental Health (3)
- UI387 Environmental Law & Public Policy (3)

**Biology Option Courses**

- BI173 Cellular & Organismal Biology (4)

**Choose 2 Courses From:**

- BS10 General Microbiology (4)
- BS310 Plant Biology (4)
- ZS310 Animal Biology (4)

**Choose 6 Hours From:**

- Students may select from a list of more than 20 courses with a BI, BO, or ZO prefix at 3xx to 5xx level.

**Additional Required Courses: 10 Hours**

- CH187 Inorganic Chemistry & Qualitative Analysis Lab (2)
- CH341 Foundations of Organic Chemistry (4)
- CH342 Organic Chemistry Lab I (1)

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


If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.

**SAMPLE FOUR-YEAR PLAN**

<table>
<thead>
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<th>Fall Semester</th>
<th>Spring Semester</th>
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<tr>
<td>Course #</td>
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<td>MA134</td>
<td>3</td>
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<td>Artistic Expression</td>
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<td>Total</td>
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</tr>
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*Milestone: maintain 2.0 cumulative GPA*

**SECOND YEAR**

- BI173 4
- CH186 3
- CH187 2
- Behavioral Systems 3
- Literary Expression 3
- Total 15

*Milestone: maintain 2.0 cumulative GPA*

**THIRD YEAR**

- UI331 4
- EC344 3
- EV454 3
- GO386 3
- MA139 or MA140 3
- Oral Expression 3
- Total 16-18

*Milestone: maintain 2.0 cumulative GPA*

**FOURTH YEAR**

- BS or BO or ZO elective 3
- EV Intern/Research 1
- Required UI3XX 3
- Social Systems 3
- Develop of a Major Civ 3
- Total 15

*Milestone: maintain 2.0 cumulative GPA*

*EC101 highly recommended by department*

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, completion of 39 senior division hours (300-599), career proficiencies (CL001-004), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the senior level. Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

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

Revised 3/1/2017