

UNDERGRADUATE

Environmental Sciences

College of Arts and Sciences
Department of Environmental Sciences

SIUE



siue.edu/environmental-sciences

Environmental Sciences at SIUE

The environmental sciences program at SIUE is interdisciplinary and is designed to cultivate students' perspectives of environmental issues, and to provide them with refined knowledge of environmental issues on a local, regional and global scale. The program curriculum will increase students' technical competence in addressing these environmental issues, their origins, ramifications and resolutions.

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

Accelerated Combined Degrees

Students may complete a bachelor's and master's degree in five academic years. Learn more at siue.edu/combined-degrees.

What can I do with a degree in environmental sciences?

According to the U.S. Department of Labor, employment of environmental scientists and specialists is projected to grow 8% through 2028. For example, a licensed environmental health practitioner can be employed for inspection, sampling and reporting for sanitary, food safety, sewage and waste disposal, drinking water, pest control, or industrial hygiene.

Admission Requirements

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 to one of the specializations 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 meeting with their academic advisor.

Students are encouraged to select their specializations 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 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).

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE
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Sample Curriculum for the Bachelor of Science in Environmental Sciences, Specialization in Environmental Health

	Fall Semester	Spring Semester
Year 1	CHEM 121A General Chemistry (BPS) 4 CHEM 125A General Chemistry Lab (EL) 1 ENG 101 English Composition I (FW1) 3 MATH 150 Calculus I (FQR) 5 ACS 101 Public Speaking (FSPC) 3 FST 101 Succeeding & Engaging at SIUE 1 Total Credits 17	BIOL 150 Biology I (BLS, EL) 4 CHEM 121B General Chemistry (BPS) 4 CHEM 125B General Chemistry Lab 1 ENG 102 English Composition II (FW2) 3 RA 101 Reasoning & Argumentation (FRA) 3 Total Credits 15
Year 2	BIOL 151 Biology II (BLS) 4 CHEM 241A Organic Chemistry 3 ENSC 125 Topics of Environmental Health & Toxicology 2 Breadth Humanities (BHUM) 3 ECON 111 Principles of Macroeconomics (BSS) 3 Total Credits 15	BIOL 220 Genetics 4 CHEM 241B Organic Chemistry (BPS) 3 CHEM 245 Organic Chemistry Lab 2 STAT 244 Statistics (BICS) 4 Breadth Fine & Performing Arts (BFPA) 3 Total Credits 16
Year 3	BIOL 350 Microbiology (recommended) or BIOL 319 Cell and Molecular Biology 4 ENSC 220 Principles of Environmental Sciences 3 NSC 220L Principles of Environmental Sciences Lab 1 Experiences Health (EH) 1 PHYS 131 College Physics I (BPS) 4 PHYS 131L College Physics I Lab 1 Total Credits 14	ENSC 325A Toxicants in the Environment 3 ENSC 330 Environmental Health & Waste Management (EGC) 3 ENSC 499 Research in Environmental Sciences 1 IS 322, 334, 336, 363, 375, or 399 (IS) 3 PHYS 132 College Physics II (BPS) 4 PHYS 132L College Physics II Lab 1 Total Credits 15
Year 4	ENSC 402 Environmental Law (POLS 497) 3 ENSC 431 Environmental Toxicology 3 ENSC 431L Environmental Toxicology Lab 1 ENSC 498 Senior Project 1 ENSC Elective Course (ENSC 325B, ENSC 401, ENSC 437, ENSC 473, ENSC 475, ENSC 477) 3 Experiences-United States Cultures 3 Total Credits 14	SPAN 400 Senior Essay (HUM) 3 SPAN Elective (300-400 level) 3 Elective 3 Elective 3 Elective 3 Total Credits 15
		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. Visit siue.edu/transfer to find course equivalency guides.

Admission Requirements Cont.

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 their 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.

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

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Contact Information

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