

# ENVIRONMENTAL SCIENCE, MINOR

Students pursuing degrees in chemistry, biology, sustainability studies, or any discipline may take a minor sequence of courses in Environmental Science in order to prepare for a career or explore an interest in addressing the relationship between humans and the environment. The minor is appropriate for individuals who wish to enhance their career prospects in government agencies, environmental law, non-profit organizations, or environmental consulting.

## Standards

Students must complete all courses counted towards the Environmental Science minor with a grade of C- or higher.

## Advising

Because requirements for the Environmental Science minor differ based on major, students should consult with a science advisor to determine the best course path.

## Requirements

### Projected Course Choices

*All students:* Begin with introductory PHSC 105 INTRODUCTION TO ENVIRONMENTAL SCIENCE or PHSC 106 THE SCIENCE OF WATER, which can be taken as early as the first semester with no prerequisites. All students end with the capstone course BIOL 340 APPLICATIONS IN ENVIRONMENTAL SCIENCE, 3 credit hours of independent research, or 3 credit hours of discipline-related internship. At least one course taken must be a lab course. Independent research may fulfill this requirement.

Students must take at least one course from 3 of the following 4 subject areas (biology, environmental chemistry, physical science and quantitative methods).

Code	Title	Credit Hours
<b>Introductory Course</b>		<b>3</b>
PHSC 105	INTRODUCTION TO ENVIRONMENTAL SCIENCE	
	or PHSC 106 THE SCIENCE OF WATER	
<b>Biology</b>		
Select one of the following:		
BIOL 112	ENVIRONMENTAL BIOLOGY	
BIOL 202	ECOLOGY, EVOLUTION, AND GENETICS	
BIOL 315	ECOLOGY	
BIOL 323	TROPICAL MARINE BIOLOGY	
BIOL 324	MARINE BIOLOGY	
BIOL 332	ECOLOGY OF TALLGRASS PRAIRIE	
SUST 330	BIODIVERSITY	
<b>Environmental Chemistry</b>		<b>3-5</b>
Select one of the following:		
CHEM 201	GENERAL CHEMISTRY I	
CHEM 202	GENERAL CHEMISTRY II	
CHEM 211	ORGANIC CHEMISTRY I	
CHEM 237	QUANTITATIVE ENVIRONMENTAL ANALYSIS	

<b>Physical Science Subject Area</b>		<b>3</b>
Select one of the following:		
PHSC 103	GLOBAL CLIMATE CHANGE	
SUST 330	BIODIVERSITY	
<b>Quantitative Methods</b>		<b>3</b>
Select one of the following:		
BIOL 314	QUANTITATIVE ECOLOGY AND CONSERVATION	
CHEM 337	INSTRUMENTAL ANALYSIS	
SUST 220	WATER	
MATH 217	ELEMENTARY STATISTICS	
MATH 238	APPLIED PROBABILITY AND STATISTICS	
<b>Capstone Course</b> <sup>1</sup>		<b>3</b>
BIOL 340	APPLICATIONS IN ENVIRONMENTAL SCIENCE	
<b>Total Credit Hours</b>		<b>15-17</b>

<sup>1</sup> Consult academic advisor to select substitute capstone course. Suitable substitute include independent research or discipline-specific internship

## Regulations

- Students who have transferred three or more equivalent courses may earn a minor in environmental science by completing at least two additional required courses at Roosevelt University.
- Courses used to satisfy a supporting sequence can be applied to a minor, but no course can be applied to simultaneously satisfy requirements of a major and a minor. No course can be used to simultaneously satisfy requirements of two minors.
- Students must complete the final 30 credit hours of their degree at Roosevelt University. Courses applying to the minor must be taken on a letter grade basis.