

# 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. A substitute for the capstone course can be approved by the academic advisor.

*Biology majors:* May use one of the courses from their supporting CHEM sequence for their CHEM requirement. This cannot be a course used towards a CHEM minor. Must take a 300-level BIOL course from the list below OR they may take a SUST course.

*Chemistry majors:* Take BIOL 202 ECOLOGY, EVOLUTION, AND GENETICS for their biology requirement. For their CHEM requirement, they will most likely take either one of the listed 300-level BIOL courses or a SUST course.

*Majors outside the sciences:* Take BIOL 112 ENVIRONMENTAL BIOLOGY for their BIOL requirement and PHSC 103 GLOBAL CLIMATE CHANGE for their CHEM requirement. These majors must seek the professor's permission to join the capstone course since they will not have taken the requisite CHEM coursework.

### Introductory Course

PHSC 105	INTRODUCTION TO ENVIRONMENTAL SCIENCE	3
or PHSC 106	THE SCIENCE OF WATER	

### Biology

Select one of the following: <sup>1</sup> 2-5

BIOL 314	QUANTITATIVE ECOLOGY AND CONSERVATION	
BIOL 315	ECOLOGY	
BIOL 323	TROPICAL MARINE BIOLOGY	
BIOL 324	MARINE BIOLOGY	
BIOL 332	ECOLOGY OF TALLGRASS PRAIRIE	

BIOL 112	ENVIRONMENTAL BIOLOGY <sup>2</sup>	
BIOL 202	ECOLOGY, EVOLUTION, AND GENETICS	
<b>Chemistry</b>		
Select one of the following: <sup>3</sup>		3-5
CHEM 201	GENERAL CHEMISTRY I	
CHEM 202	GENERAL CHEMISTRY II	
CHEM 211	ORGANIC CHEMISTRY I	
CHEM 237	QUANTITATIVE ENVIRONMENTAL ANALYSIS	
CHEM 337	INSTRUMENTAL ANALYSIS	
PHSC 103	GLOBAL CLIMATE CHANGE <sup>2</sup>	
<b>Optional Sustainability Courses <sup>4</sup></b>		
SUST 220	WATER	
SUST 310	ENERGY AND CLIMATE CHANGE	
SUST 330	BIODIVERSITY	
<b>Capstone Course <sup>5</sup></b>		
BIOL 340	APPLICATIONS IN ENVIRONMENTAL SCIENCE	5
Total Credit Hours		13-18

- <sup>1</sup> Majors in biology may substitute an additional CHEM course from the list or one of the optional SUST courses.
- <sup>2</sup> The option is only open to students majoring in disciplines outside the Department of Biological, Chemical, and Physical sciences.
- <sup>3</sup> Majors in chemistry may substitute an additional BIOL course from the list or one of the optional SUST courses.
- <sup>4</sup> This option is only open to majors in biology or chemistry for credit towards the minor.
- <sup>5</sup> Consult academic advisor to select substitute capstone course

## 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.