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).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Introductory Course</td>
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<tr>
<td>PHSC 105</td>
<td>INTRODUCTION TO ENVIRONMENTAL SCIENCE</td>
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<tr>
<td>or PHSC 106</td>
<td>THE SCIENCE OF WATER</td>
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Biology

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

Environmental Chemistry

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

Physical Science Subject Area

Select one of the following:

- PHSC 103 GLOBAL CLIMATE CHANGE
- SUST 330 BIODIVERSITY

Quantitative Methods

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

Capstone Course

- BIOL 340 APPLICATIONS IN ENVIRONMENTAL SCIENCE

Total Credit Hours

15-17

1 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.