ENVIROMENTAL SCIENCE MAJOR

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ENVS 3000</td>
<td>ENVIROMENTAL SCIENCE</td>
<td>3</td>
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</tbody>
</table>

One the following options (plus all accompanying labs):

**Rose Hill:**

- BISC 1403 INTRODUCTORY BIOLOGY I
- BISC 1404 INTRODUCTORY BIOLOGY II
- BISC 2561 ECOLOGY
- CHEM 1321 GENERAL CHEMISTRY I
- CHEM 1322 GENERAL CHEMISTRY II
- CHEM 2521 ORGANIC CHEMISTRY I
- PHYS 1501 GENERAL PHYSICS I

**Lincoln Center:**

- NSCI 1403 GENERAL BIOLOGY LECTURE I
- NSCI 1404 GENERAL BIOLOGY LECTURE II
- NSCI 2010 GLOBAL ECOLOGY LECTURE
- NSCI 1321 GENERAL CHEMISTRY LECTURE I
- NSCI 1322 GENERAL CHEMISTRY LECTURE II
- NSCI 3121 ORGANIC CHEMISTRY LECTURE I
- NSCI 1501 GENERAL PHYSICS LECTURE I

One of the following:

- MATH 1203 APPLIED CALCULUS I
- MATH 1206 CALCULUS I
- MATH 1207 and CALCULUS II

One of the following:

- MATH 1205 APPLIED STATISTICS
- MATH 1700 MATHEMATICAL MODELLING

Four advanced Environmental Science Elective courses, below

Two Environmental Policy/Law/Economics courses, below

Two semesters of Research or Internship

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Environmental Science Internship</td>
<td>8</td>
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<tr>
<td></td>
<td>Environmental Science Research</td>
<td>8</td>
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Students should take two semesters of Research or two semesters of Internship; they may take one of each with the permission of the program director.

**Advanced Environmental Science Elective courses**

The four advanced Environmental Science elective courses to complete the major are listed below. The list includes only the lecture course code for each of the required courses. Students should must also complete the lab co-requisite for courses that have one (e.g., BISC 2539 GENERAL GENETICS, BISC 3643 Microbiology, CHEM 2522 Organic Chemistry II, CHEM 3622 PHYSICAL CHEMISTRY II, NSCI 2142 PALEOECOLOGY LECTURE, NSCI 3122 Organic Chemistry Lecture II, NSCI 4143 ADVANCED MICROBIOLOGY LECTURE).

Students who plan to enroll in a graduate science program are strongly encouraged to complete Organic Chemistry II (CHEM 2522 / NSCI 3122) with the appropriate lab as one of their science electives.

Courses with the code BISC or CHEM are offered at the Rose Hill campus, while courses with the code NSCI are offered at the Lincoln Center campus. Students may not receive credit for taking equivalent/mutually exclusive courses on each campus.

Courses in this group have the ENSE attribute.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>General Genetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Evolutionary Biology</td>
<td>3</td>
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<tr>
<td></td>
<td>Microbiology</td>
<td>3</td>
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<tr>
<td></td>
<td>Animal Behavior</td>
<td>4</td>
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<tr>
<td></td>
<td>Organic Chemistry II</td>
<td>4</td>
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<tr>
<td></td>
<td>Physical Chemistry II</td>
<td>4</td>
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<tr>
<td></td>
<td>Quantitative Analysis</td>
<td>4</td>
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<td></td>
<td>Instrumental Analysis</td>
<td>4</td>
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<td></td>
<td>Environmental Chemistry</td>
<td>3</td>
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<tr>
<td></td>
<td>Paleoenology Lecture</td>
<td>3</td>
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<tr>
<td></td>
<td>Organic Chemistry Lecture II</td>
<td>4</td>
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<tr>
<td></td>
<td>Genetics Lecture</td>
<td>3</td>
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<td></td>
<td>Animal Physiology Lecture</td>
<td>3</td>
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<tr>
<td></td>
<td>Advanced Microbiology Lecture</td>
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<tr>
<td></td>
<td>Biological Chemistry Lecture</td>
<td>3</td>
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**Environmental Policy/Law/Economics courses**

Two courses are required from the list below.

Courses in this group have the EPLE attribute.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
<td>Environment and Human Survival</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Environmental Economics</td>
<td>4</td>
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<tr>
<td></td>
<td>North American Environmental History</td>
<td>4</td>
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<tr>
<td></td>
<td>Environment: Science, Law, and Policy</td>
<td>3</td>
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<tr>
<td></td>
<td>Science, Technology, and Society Values</td>
<td>4</td>
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<tr>
<td></td>
<td>Environmental Ethics</td>
<td>4</td>
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<td></td>
<td>Religion and Ecology</td>
<td>4</td>
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<td></td>
<td>Designing the City</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Environmental Design</td>
<td>4</td>
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**Availability**

The major in environmental science is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham School of Professional and Continuing Studies may major in environmental science only if their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

Updated: 04-30-2019
Fordham College at Rose Hill students: The requirements above are in addition to those of the Core Curriculum.

Fordham College at Lincoln Center students: The requirements above are in addition to those of the Core Curriculum.

Professional and Continuing Studies students: The requirements above are in addition to those of the PCS Core Curriculum.