Environmental Science Major

Requirements

Course | Title | Credits
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ENVS 3000 | Environmental Science | 3

One the following options (plus all accompanying labs):

### Rose Hill:
- BISC 1403 | Introductory Biology I | 1
- BISC 1404 | Introductory Biology II | 1
- BISC 2561 | Ecology | 1
- CHEM 1321 | General Chemistry I | 1
- CHEM 1322 | General Chemistry II | 1
- CHEM 2521 | Organic Chemistry I | 1
- PHYS 1501 | General Physics I | 1

### Lincoln Center:
- NSCI 1403 | General Biology Lecture I | 1
- NSCI 1404 | General Biology Lecture II | 1
- NSCI 2010 | Global Ecology Lecture | 1
- NSCI 1321 | General Chemistry Lecture I | 1
- NSCI 1322 | General Chemistry Lecture II | 1
- NSCI 3121 | Organic Chemistry Lecture I | 1
- NSCI 1501 | General Physics Lecture I | 1

One of the following: 1 3 to 4
- MATH 1203 | Applied Calculus I | 1
- MATH 1206 | Calculus I | 1
- MATH 1207 | Calculus II | 1

One of the following: 3 to 4
- MATH 1205 | Applied Statistics | 1
- MATH 1700 | Mathematical Modelling | 1

Four advanced Environmental Science Elective courses, below

Two Environmental Policy/Law/Economics courses, below 7 to 8
- ENVS 4401 | Environmental Science Internship | 1
- ENVS 4501 | Environmental Science Research | 1

1 MATH 12AB or MATH 12BC (transfer credit from AP Calculus AB or BC) also fulfills this requirement.

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 Paleocology 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.

### Course
- BISC 2539 | General Genetics | 3
- BISC 3244 | Evolutionary Biology | 3
- BISC 3643 | Microbiology | 3
- BISC 4642 | Animal Behavior | 4
- CHEM 2522 | Organic Chemistry II | 4
- CHEM 3622 | Physical Chemistry II | 4
- CHEM 3721 | Quantitative Analysis | 4
- CHEM 3722 | Instrumental Analysis | 4
- CHEM 4340 | Environmental Chemistry | 3
- NSCI 2142 | Paleocology Lecture | 3
- NSCI 3101 | Biological Modeling | 4
- NSCI 3121 | Organic Chemistry Lecture I | 4
- NSCI 3122 | Organic Chemistry Lecture II | 4
- NSCI 3133 | Genetics Lecture | 3
- NSCI 4112 | Animal Physiology Lecture | 3
- NSCI 4143 | Advanced Microbiology Lecture | 3
- NSCI 4153 | Biological Chemistry Lecture | 3

Environmental Policy/Law/Economics courses

Two courses are required from the list below.

Courses in this group have the EPLE attribute.

### Course
- ANTH 4373 | Environment and Human Survival | 4
- ECON 3850 | Environmental Economics | 4
- HIST 3990 | North American Environmental History | 4
- NSCI 2060 | Environment: Science, Law, and Policy | 3
- NSCI 4222 | Science, Technology, and Society Values | 4
- PHIL 3109 | Environmental Ethics | 4
- PJST 3200 | Environmental Justice | 4
- THEO 4008 | Religion and Ecology | 4
- VART 2050 | Designing the City | 4
- VART 2055 | Environmental Design | 4

Availability

The major in environmental science is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham’s School of Professional and Continuing Studies may major in environmental science only if they receive the approval of their advising dean and/or department, and their schedules are sufficiently flexible.

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to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

**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 and any additional electives that may be required to earn a minimum of 124 credits.