ENVIRONMENTAL SCIENCE MAJOR

Requirements

Course	Title	Credits
ENVS 3000	Environmental Science	3
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: [1]		3 to 4
MATH 1203	Applied Calculus I	
MATH 1206	Calculus I	
MATH 1207	Calculus II	
One of the following:		3 to 4
MATH 1205	Applied Statistics	
MATH 1700	Mathematical Modelling	
Four advanced Environmental Science Elective courses, below		
Two Environmental Policy/Law/Economics courses, below		7 to 8
Two semesters of Research or Internship		8
ENVS 4401	Environmental Science Internship	
ENVS 4501	Environmental Science Research	

[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 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.

Course	Title	Credits
BISC 2539	General Genetics	3
BISC 3244	Evolutionary Biology	3
BISC 3643	Microbiology	3
BISC 4575	Conservation Biology	4
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 2020	An Introduction to Geology	3
NSCI 2142	Paleoecology 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	Title	Credits
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
POSC 4040	Sustainable Development	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 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.*