ENVIRONMENTAL SCIENCE

Environmental science is an interdisciplinary major offered on the Rose Hill and Lincoln Center campuses. Students who complete the requirements of this program will graduate with a B.S. degree in environmental science. A minimum grade of C- is required in all courses taken to fulfill the major.

The environmental science major provides students with a solid foundation in scientific principles and analysis, focusing on applications to the environment. The major emphasizes a rigorous curriculum, using an integrated approach that combines concepts and methods across the fields of biology, chemistry, physics, mathematics, and environmental science. Research and training opportunities exist within each of the contributing departments, the Louis Calder Center, and at major collaborative scientific institutions in the New York City area. Following a solid scientific grounding in the first two years, upper-level students choose science elective courses that allow them to tailor their interests toward an emphasis on a life or chemical sciences approach and complete an independent science research project on an environmental topic or an internship at an environmental firm or government agency.

Students majoring in environmental science may not double major in biology, chemistry, general science, or natural science. Students majoring in environmental science may choose any available minor at Fordham provided that they fulfill the requirements stipulated by the department or program offering the minor and have approval from the dean’s office.

Courses outside the program

The following courses offered outside the program have the ENVS courses outside the program program offering the minor and have approval from the dean's office.

Students majoring in environmental science may choose any available minor at Fordham provided that they fulfill the requirements stipulated by the department or program offering the minor and have approval from the dean’s office.

For more information

Visit the Environmental Science program web page.

Programs

- Environmental Science Major
Courses

ENVS 3000. ENVIRONMENTAL SCIENCE. (3 Credits)
(Formerly ENVS 1000.) This course covers the biological, chemical, and geological components of world ecosystems. The causes of both air and water pollution will also be covered. The interactions between the atmosphere, lithosphere, hydrosphere and biosphere will be described. The relationship between global change and the effects of human activities will be addressed as well.
Prerequisites: BISC 1404 or NSCI 1404 and CHEM 1322 or NSCI 1322.

ENVS 4401. ENVIRONMENTAL SCIENCE INTERNSHIP I. (4 Credits)
Individually tailored research internship in an environmental institution. Placement will be in an environmental organization, government agency or business, under the supervision of a consenting faculty member, and with permission of the Environmental Science Program Faculty Committee. Grade and credits are given only upon the completion and successful defense of a final report integrating the practical internship experience with previous course work in environmental science is required. A weekly seminar that synthesizes previous environmental science coursework with practical experiences is also required. All students choosing this option must complete two semesters (4 credits each). Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

ENVS 4402. ENVIRONMENTAL SCIENCE INTERNSHIP II. (4 Credits)
Individually tailored research internship in an environmental institution. Placement will be in an environmental organization, government agency or business, under the supervision of a consenting faculty member, and with the approval of the Environmental Science Program Faculty Committee. Grade and credits are given only upon the completion and successful defense of a final report integrating the practical internship experience with previous course work in environmental science required. A weekly seminar that synthesizes previous environmental science coursework with practical experiences is also required. All students choosing this option must complete two semesters (4 credits each). Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

ENVS 4501. ENVIRONMENTAL SCIENCE RESEARCH I. (4 Credits)
Individually tailored laboratory or field research conducted throughout the senior year. The project will be on a specific environmental topic under the supervision of a consenting faculty member and with permission of the Environmental Science Program Faculty Committee. Grade and credits are given only upon the completion and successful defense of a final research paper that integrates the project findings with previously published studies in environmental science. A weekly seminar that synthesizes previous environmental science coursework with research experiences is also required. All students choosing this option must complete two semesters (4 credits each). Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

ENVS 4502. ENVIRONMENTAL SCIENCE RESEARCH II. (4 Credits)
Individually tailored laboratory or field research conducted throughout the senior year. The project will be on a specific environmental topic under the supervision of a consenting faculty member and with permission of the Environmental Science Program Faculty Committee. Grade and credits are given only upon the completion and successful defense of a final research paper that integrates the project findings with previously published studies in environmental science. A weekly seminar that synthesizes previous environmental science coursework with research experiences is also required. All students choosing this option must complete two semesters (4 credits each). Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

ENVS 4999. TUTORIAL. (1-4 Credits)