The School of Science and Engineering

Environmental Science

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David C. Heins, Ecology and Evolutionary Biology

Duncan Irschick, Ecology and Evolutionary Biology

John McLachlan, Weatherhead Distinguished Professor of Environmental Studies

Gary L. McPherson, Chemistry

Doug Meffert, Center for Bioenvironmental Research

Thomas W. Sherry, Ecology and Evolutionary Biology

MAJOR

The Departments of Ecology & Evolutionary Biology (EEB) and Earth & Environmental Sciences (EES) collaborate to offer this interdisciplinary environmental science major, which provides students with broad exposure to environmental problems, as well as training in essential problem-solving skills, such as Geographic Information Systems (GIS) and Environmental Informatics (EI). The major is not unlike the majors in EES and EEB in that it requires a broad background in the natural sciences, as well as a core curriculum that familiarizes students with tools and methods. The undergraduate program is preparatory to our 4+1 M.S. degree program in environmental science. Students completing the terminal masters program should be able to enter environmental scientist positions in private industry, environmental consulting, and regulatory agencies. In addition, the major provides a strong science background for individuals seeking to practice environmental law. Students majoring in environmental science may elect to broaden their background in environmental issues by completing a coordinate major in environmental studies in the School of Liberal Arts. Course requirements for the environmental science major are given below:

MAJOR

I. Courses Required Outside EEB and EES (five courses)

MATH 121 Calculus I

MATH 123 Statistics for Scientists and Engineers

CHEM 107/117 General Chemistry I and General Chemistry Laboratory I

CHEM 108/118 General Chemistry II and General Chemistry Laboratory II

CHEM 241/243 Organic Chemistry I and Organic Chemistry Laboratory I

or

CHEM 250 Environmental Chemistry

II. Foundational Courses (two courses)

EBIO 101/111 Diversity of Life and laboratory

EENS 111/113 Physical Geology and laboratory

III. Core Courses (six courses)

EBIO 205 Global Change Biology

EENS 207 Weather and Climate

EENS 310 Geomorphology

EBIO 404/414 General Ecology

EBIO 408 Biostatistics and Experimental Design

EENS 603 Geospatial Analysis (GIS)

IV. Elective Tracks (five courses)

Ecology and Evolutionary Biology Track

- Any four EBIO courses, two of which must be designated laboratory or field courses
- Capstone experience: approved independent study (EBIO 491) or honors thesis (EBIO 499-500)

Earth and Environmental Science Track

- Any four EENS courses
- Capstone experience: approved independent study (EENS 491) or honors thesis (EENS 499-500)