

# Environmental Science (BS)



## PROGRAM OVERVIEW

The Department of Biodiversity, Earth and Environmental Science (BEES) is committed to support budding scientists who want to make a significant impact with their research and discoveries. The BEES motto is “Field Experience, Early and Often.” Environmental Science majors pull on a pair of waders before they even enter in the classroom. This immersive approach, combined with the expert guidance of our faculty, supports the understanding of ecology, evolution, climatology, biodiversity, and bioremediation, among many other areas of study. All are vital to the understanding, conservation, and restoration of healthy ecosystems.

Drexel University’s unique partnership with the Academy of Natural Sciences, America’s oldest natural history museum, provides students with access to expansive plant, animal, and insect collections curated by nationally and internationally renowned faculty who thrive on working with students both in courses and on co-ops. Working side by side with faculty permits students to engage in research on everything from microbes to dinosaurs and volcanoes to wetlands. Urban ecology, paleontology, geology, and many other avenues for exploration take students across Philadelphia and the globe. Field courses offer students the opportunity to engage in research from the New Jersey coast and the Poconos to Hawai’i, Ecuador, Costa Rica, Equatorial Guinea, and Mongolia.

The Bachelor of Science in Environmental Science prepares students exceptionally well to play leadership roles both in technical and academic fields. Career paths include work in governmental agencies, geotechnical organizations, consulting and assessment firms, NGOs, and water quality laboratories, and in such fields as environmental health, marine and freshwater science, applied/basic ecology, and conservation. The world is at your fingers, as the saying goes, and BEES is your access point!

### CONCENTRATIONS

Biodiversity and Evolution; Earth Science; Ecology and Conservation; and Environmental Science.

### MINORS

Climate Change; Ecology; Environmental Studies; and Geoscience

### ACCELERATED DEGREES

Environmental Science (BS) + Ecology, Evolution & Earth Systems (MS)  
Environmental Science (BS) + Environmental Policy (MSEP)



## BEYOND THE CLASSROOM

### PRE-TERM FIELD EXPERIENCE

All incoming BEES students participate in an interactive course at the Barnegat Bay Field Station in New Jersey prior to the start of classes in the fall. This unique opportunity provides a sneak peek into the experiential learning at the core of a Drexel education. It also jumpstarts lasting friendships with classmates and enriching educational relationships with faculty. Over the course of the multi-day program, students gain hands-on experience in diverse research areas like turtle ecology, wetland processes, plant and animal identification, climate change, nutrient dynamics, systematic biology, and more. Students get the opportunity to learn from the get-go the knowledge they will gain as students in BEES while also building camaraderie with their classmates and professors.

### GLOBAL ADVENTURES

International co-op, research, and study abroad opportunities abound for BEES students. On Bioko Island, off the coast of Equatorial Guinea in Africa, students study rare monkeys and nesting sea turtles. In Ecuador, they explore how to conserve tropical rainforests. In remote areas of Mongolia, they study the impacts of climate change on local ecosystems and the way herders work the land. These are just a few examples. Many more travel and research adventures await!

### RESEARCH OPPORTUNITIES

From biodiversity conservation and climate change to paleoecology, paleobiology, and more, BEES faculty and their students are changing the world with their research. Environmental Science majors have amazing, curriculum-enhancing facilities at its disposal, including the Papadakis Integrated Sciences Building, home to state-of-the-art labs and a five-story living biowall; the Academy of Natural Sciences, which houses over 18 million specimens of global significance; and the diverse ecosystems accessible from the Barnegat Bay Field Station in Ocean Township, NJ, the pristine glacial lake of Lacawac Sanctuary in the Poconos, and numerous other field sites.

## INNOVATIVE CURRICULUM

Notable Environmental Science courses include:

- Animal Behavior
- Tropical Ecology
- Global Warming, Biodiversity, and Your Future
- Field Botany of the New Jersey Pine Barrens
- Conservation Biology



## DREXEL CO-OP

Through Drexel's cooperative education (co-op) program, students embark on up to three, six-month periods of employment, exploring their career options, strengthening their resumes, and building a professional network in the process. Gaining experience both in

**U.S. ENVIRONMENTAL PROTECTION AGENCY  
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UNIVERSITY • EXELON CORPORATION • THE  
BIOKO BIODIVERSITY PROTECTION PROGRAM  
AND THE PHILADELPHIA WATER DEPARTMENT,  
AMONG OTHERS.**

LEARN MORE  
ABOUT THE  
PROGRAM



## CONTACT US

College of Arts and Sciences  
coas@drexel.edu

Undergraduate Admissions  
enroll@drexel.edu

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@drexel\_coas