

DREXEL UNIVERSITY UNDERGRADUATE PROGRAMS

DEPARTMENT OF

# BIODIVERSITY, EARTH & ENVIRONMENTAL SCIENCE



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## DREXEL UNIVERSITY COLLEGE OF ARTS AND SCIENCES DEPARTMENT OF BIODIVERSITY, EARTH & ENVIRONMENTAL SCIENCE

The Department of Biodiversity, Earth and Environmental Science (BEES) is the destination for budding scientists who want to make an impact. The BEES motto is “*Field Experience, Early and Often,*” which means our freshmen roll up their sleeves and pull on a pair of waders before they even step foot in the classroom. This immersive approach, combined with the expert guidance of BEES professors, opens extraordinary doors to the future. Plus, students have access to exceptional field sites and some of the most extensive research collections in the world. It’s all the preparation they need to become leaders in the protection of our planet and its natural resources.

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## DEGREES OFFERED

Environmental Science  
(BS, Accelerated BS/MS, MS, PhD)  
Environmental Studies and Sustainability (BA)  
Geoscience (BS)  
Climate Change, Ecology, Environmental  
Studies, Geoscience (minors)

## FOR MORE INFORMATION

Admissions  
[drexel.edu/undergrad](https://drexel.edu/undergrad)  
College of Arts and Sciences  
[drexel.edu/coas](https://drexel.edu/coas)  
Department of Biodiversity, Earth  
& Environmental Science  
[drexel.edu/bees](https://drexel.edu/bees)

## UNDERGRADUATE STUDIES

Working side-by-side with scientists from Drexel University and the Academy of Natural Sciences — the oldest natural sciences institution in the Western Hemisphere — our students are exposed to research that extends from the smallest microbes to the largest plants and animals. From the ecology of systems in our own backyards to those in the most distant parts of the globe, and from Earth's geological history to scenarios far into its future, we feature a particular emphasis on climate change.

### Bachelor of Science in Environmental Science

The BS in Environmental Science offers a research-rich experience that prepares students for careers or graduate school in the fields of ecology, biodiversity and environmental science. The curriculum provides a breadth of knowledge in the core courses and expertise in a concentration of the student's interest. Two concentrations are available: Ecology and Evolution, and Applied Environmental Science.

### Bachelor of Arts in Environmental Studies and Sustainability

The BA in Environmental Studies and Sustainability is for students who want to address contemporary environmental issues from a humanities perspective. Graduates will have a firm foundation in international studies and foreign language, empowering them to participate in cross-cultural dialogue to help people around the world understand environmental issues. Students gain experience in field research and the basics of environmental sampling, as well as skills in communication, collaboration, creative and critical thinking, and leadership.

### Bachelor of Science in Geoscience

Predicting sea level change; discovering new geothermal, hydrocarbon and mineral resources; removing buried toxins from the environment — these and other imperatives are the work of geoscientists. Understanding the 99 percent of our history that precedes the archaeological record, the humbling events of natural history, and the vast diversity of species and systems over time — that is the work of geoscientists as well. Graduates of Drexel's BS in Geoscience will be among the next generation of leading scientists tackling critical issues that will impact long-term environmental sustainability.

## 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 students' academic careers and gives them a jumpstart on building lasting friendships with classmates and professors. Over the course of the multi-day program, students gain hands-on experience in diverse research areas like herpetology, wetland processes, plant and animal identification, climate change, nutrient dynamics, systematic biology and more.

## THE DREXEL CO-OP

Through Drexel's cooperative education program, students embark on up to three, six-month periods of employment, exploring their career options, strengthening their résumés and building a professional network in the process. Students gain experience both in the U.S. and abroad, and have held co-op positions at the U.S. Environmental Protection Agency, the Academy of Natural Sciences of Drexel University, Exelon Corporation and the Philadelphia Water Department, among others.

## RESEARCH OPPORTUNITIES

From biodiversity conservation and climate change, to paleoecology, paleobiology and more, BEES scientists are changing the world with their research. And our students have the opportunity to work right by their side. Often, our students' perspectives and curiosity can be the source of new ideas and research directions. The department also has 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 of Drexel University, 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 countless other field sites.

## GLOBAL ADVENTURES

International co-op, research and study abroad opportunities abound for BEES students. With access to field sites all over the world, students apply their skills in eye-opening and awe-inspiring locations. On Bioko Island, off the coast of Africa, students study rare monkeys and nesting sea turtles. In Costa Rica, they explore the ecology of tropical rainforests and help conserve leatherback sea turtles. Elsewhere, students study the impacts of climate change on the local ecology and the way herders work the land. These are just a few examples — many more travel and research adventures await.

## CAREERS

BEES graduates are well-prepared to contribute in both technical and academic fields. Career paths include work in governmental agencies, consulting and assessment firms, NGOs, geotechnical firms, and water quality laboratories, and in the fields of environmental health, marine and freshwater science, applied/basic ecology, biodiversity and conservation, and paleontology.

## CONTACT US

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### Undergraduate Admissions

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enroll@drexel.edu



Check out what BEES faculty and students are up to at [facebook.com/groups/DrexelBEES/](https://facebook.com/groups/DrexelBEES/)



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College of

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