



CREDIT: BIGALOW LABORATORY FOR OCEAN SCIENCES

CHANNEL YOUR LOVE
OF THE NATURAL WORLD
INTO THE SCIENTIFIC
DISCOVERIES OF
TOMORROW.

Hood College

DEPARTMENT OF BIOLOGY

hood.edu/bio

BIOLOGY MAJOR

As a biology major, you will integrate concepts from a broad curriculum to study diverse aspects of the living world and solve contemporary biological problems. From investigating genes and cells to studying ecosystems, you will gain a strong foundation in biology that includes practical classroom, laboratory and fieldwork experience.

We offer access to well-equipped labs for ecology, microbiology, molecular biology, cell culture and physiology; a greenhouse to grow and study plants; and a suite of labs for the growth and study of aquatic organisms. You can conduct research with our faculty using state-of-the-art equipment and facilities. Collectively, our research and classroom experiences will provide you with the tools you need for careers in science or graduate school and medical school.

ENVIRONMENTAL SCIENCE AND POLICY MAJOR

This interdisciplinary program incorporates environmental biology, chemistry, economics and policy to prepare students for careers as scientists or policymakers working on important ecological and environmental issues. Our proximity to Baltimore and Washington, D.C., enables you to take advantage of internships, research opportunities and the science policymaking process.

You will gain hands-on experience in environmental science by participating in field-based programs and travel-based electives. Furthermore, you will have access to cutting-edge instrumentation for soil and water analysis, GIS mapping, satellite image analysis, digital imaging, and sound and video recording. Both in the classroom and the field, we will provide you with the foundation needed to champion research and guide decisions on environmental research policy.

“

My time as a student in the Hood College biology department was pivotal in shaping my interest in the environmental field. The program's emphasis on hands-on research and learning opportunities provided me with invaluable skills and insights. I am grateful for the foundation this program gave me, which I now apply daily in my efforts to promote land conservation around the Chesapeake Bay watershed.

—KAELYN KOBOSKO '24
Sustainability Studies Major



HOOD.EDU



UNDERGRADUATE PROGRAMS

- Biology (B.A.)
 - Secondary Education Certification
- Environmental Science and Policy (B.A.)
 - Coastal and Watershed Studies Concentration
 - Environmental Biology Concentration
 - Environmental Chemistry Concentration
 - Environmental Policy Concentration
- Sustainability Studies (B.A.)
- 4PLUS Biology (B.A.) + Biomedical Science (M.S.)
- 4PLUS Environmental Science and Policy (B.A.) + Environmental Biology (M.S.)
- Biology Minor
- Coastal Studies Minor
- Environmental Studies Minor

GRADUATE PROGRAMS

- Biomedical Science (M.S.)
- Environmental Biology (M.S.)
- Geographic Information Systems (Certificate)

SUSTAINABILITY STUDIES

This program combines the knowledge and skills necessary to develop future sustainability changemakers. You will learn to solve pressing environmental and social issues that affect the well-being of our generation and generations to come.

We will introduce you to the workings and interactions among three primary human needs: water, food and energy. Through a series of hands-on activities, systems thinking exercises and experiential learning opportunities, you will be prepared to address many of the seemingly intractable problems that face us today, such as climate change, environmental degradation, social inequity and environmental injustice.

COASTAL STUDIES

This travel-based program provides a solid academic framework for the study of environmental science. As a member of a close-knit, motivated community, you will gain an understanding and appreciation for the coastal environment—not only in biological and ecological terms, but also by placing coastal issues into historical and cultural contexts.

The semester-long program focuses on coastal environments from an interdisciplinary perspective, combining theory with practice. You will be engaged in four interrelated courses that will go far beyond traditional classroom and lab settings. You will apply your newly acquired knowledge to environmental problems that are facing communities and natural systems along the Atlantic coast and Chesapeake Bay.



CREDIT: ERIC ANNIS

BEYOND THE CLASSROOM

Hood's location is ideal for our faculty to connect with leading researchers and employers to help you get your foot in the door. Like many of our students, you could find an internship at places like:

- Frederick National Laboratory for Cancer Research
- U.S. Army Medical Research Institute of Infectious Disease
- U.S. Department of Agriculture
- Kite Pharma
- The National Aquarium in Baltimore
- Maryland State Governor's Office
- The Nature Conservancy

You may also work side-by-side with experienced faculty in our department. You will have the opportunity to participate in the Summer Research Institute (a paid summer research experience) and senior-level honors projects, which could be presented at regional or national scientific meetings or submitted for publication.

4PLUS PROGRAM

Hood's 4PLUS program combines undergraduate and graduate studies to save you time and money. By working with your adviser, you can start taking courses toward your master's in your junior or senior year and earn dual-course credit for both your bachelor's and master's degree.

Biology majors can work toward a master's in biomedical science. Environmental science and policy majors can work toward a master's in environmental biology.

CAREERS IN BIOLOGY

Biology is a diverse field with a wide range of career opportunities.

- Agricultural Scientist
- Bioinformatician
- Biomedical Engineer
- Ecologist
- Educator
- Environmental Scientist
- Forensic Scientist
- Food Scientist
- Genetic Researcher
- Lab Technician
- Marine Biologist
- Microbiologist
- Quality Control Specialist
- Research Assistant



HOOD.EDU



ADM-24-106-E

Our faculty are committed teachers, active in scholarship, service and mentorship—faculty who will work with you and help develop your critical thinking skills.

Visit and Apply

Hood College
401 Rosemont Avenue
Frederick, MD 21701-8575
301-696-3400
admission@hood.edu

Your future is **WORTH THE WORK.**



[HOOD.EDU](https://www.hood.edu)