ENVIRONMENTAL SCIENCES Bachelor of Science

A natural science-based program for students driven to help solve the environmental issues of our time.

The Environmental Sciences major is an interdisciplinary degree that blends a strong science foundation with experiential learning opportunities. Students gain the knowledge and professional skills needed to address climate change, improve water quality, advance sustainable design, and facilitate species conservation.

In the amazing outdoor laboratory of Vermont, students are taught to analyze human and ecological systems and how they interact in air, on land, and in water.

After two years of exploratory study, students choose a concentration to deepen their expertise. Focus areas include:

- Agriculture & Environment
- Conservation Biology & Biodiversity
- Ecological Design
- Environmental Analysis & Assessment
- Environmental Biology
- Environmental Geology
- Environmental Health
- Climate Change
- Water Resources

The Rubenstein School is a learning community pursuing the mission question:
How can the Rubenstein School unleash empathy, passion, innovation, and creativity to heal and radically change human-environment systems in a just, equitable, and ecological direction?
Wide ranging career opportunities

With an emphasis on cutting-edge geospatial technologies, quantitative analysis, and assessment techniques, Environmental Sciences students are highly desirable in rapidly growing career fields.

Positions that graduates are prepared for include: environmental scientist, environmental chemist, research scientist, hydrologic scientist, energy consultant, conservation biologist, natural resource specialist, educator, outreach specialist, GIS specialist, project manager, lead planner, sustainability coordinator, watershed program supervisor.

Nisha Nadkarni, focused her studies on water resources and expanded her learning outside of the classroom by interning in a faculty research lab.

“IT'S REALLY AWESOME THAT WE HAVE THESE RESEARCH OPPORTUNITIES DIRECTLY WITHIN RUBENSTEIN. I GOT THE CHANCE TO WORK AT THE RUBENSTEIN ECOSYSTEM SCIENCE LABORATORY ON THE WATERFRONT. THAT WAS MY FIRST FORAY INTO FIELD WORK AND WORKING ON A RESEARCH VESSEL. THAT EXPERIENCE EXPOSED ME TO THE INNER WORKINGS OF RESEARCH AND EXPERIMENTAL DESIGN.”

- NISHA NADKARNI, Class of 2020

Sample Courses

Ecology
Ecosystem Management
Environmental Science
Environmental Problem Solving
Biology
Chemistry
Calculus
Environmental Statistics
Environmental Assessment & Analysis
Geology
 Soil Science
Stream Ecology
Global Environmental Assessment
Pollutant Movement in Air, Land & Water
Ecosystem Restoration
University Writing
Public Speaking
Conservation Biology
Ecological Design
Remote Sensing
Sustainability Science
Quantitative Analysis

Sample Employers

US Army Corps of Engineers
US Environmental Protection Agency
US Forest Service
Bear Creek Environmental
Minnesota Department of Natural Resources
Maryland Attorney General’s Office
City of Oakland
Washington State Department of Transportation
Environmental Consulting Firms
Energy Consulting Firms
Environmental Engineering Firms
Solar Energy Companies
Environmental Nonprofit Organizations
Municipal Agencies
State Agencies
Tribal Organizations