

Environmental Biology Specialization



The field of Environmental Biology focuses on interactions between organisms and their surrounding environment, including impacts of human actions on natural ecosystems. The Environmental Biology specialization of the Biology major provides a strong scientific background for students preparing for careers in fields such as conservation biology, natural resource management, and environmental education.

Many students are admitted to graduate schools to gain additional skills and experience of careers in organizations, and academic institutions.

SPECIALIZATION

For the BS in Biology with a specialization in Environmental Biology

CAREERS TO EXPLORE

- Wildlife Conservation
- Environmental Education
- Natural Resource Management
- Bioinformatics and Computational Biology
- Genomic Sciences
- Climate Change Solutions
- Ecosystems Restoration
- Paleontology and Museum Curation





Amy Oblitas Rojas '24
BS Marine Vertebrate Biology
BS Psychology, Concentration in Biology

"Research to me means displaying the skills I have accumulated over the years from my mentors. It is a chance to further develop my talents while doing research that I am interested and care about. I plan to continue doing research that contributes to the science community and leave my mark in the world along with the individuals who inspire me. It will always be a big part of who I am and I will always be happy about that."

SKILLS YOU'LL ACQUIRE

- Problem solving and hypothesis testing
- Critical thinking and scientific literacy
- Understanding of the natural world
- Management and analysis of big data
- Spatial analyses using geographic information systems
- Scientific writing and communication

SPECIAL FEATURES:

- Opportunities for hands-on research and experiential learning
- Fieldwork on Long Island and abroad
- Participation in SBU's multidisciplinary "Collaborative for the Earth," an initiative that seeks to develop solutions to harmful effects of climate change
- Interactions with the New York Climate Exchange

SAMPLE COURSES

- Plant Diversity
- Conservative Biology
- Ecological Genetics
- Landscape Ecology
- Ecosystem Ecology and Global Environment

**Study abroad programs
available in:**

- **Kenya**
- **Madagascar**



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