

Biology: Ecology and Evolution



The Ecology and Evolution specialization of the Biology major provides a strong scientific background for students preparing for careers in fields such as conservative biology, genomic sciences, and bioinformatics.

Faculty and students in Ecology and Evolution study how the diversity of life has evolved, and how organisms interact with each other and their environment.

After graduation many students attend graduate school to gain additional skills and experience for careers in government agencies, nonprofit organizations, and academic institutions.

SPECIALIZATION

For the BS in Biology with a specialization in Ecology and Evolution

CAREERS TO EXPLORE

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





Yuu-U Hashimoto '26
BS Biology

"To me, research represents a journey of exploration and discovery, where I can pioneer solutions to current challenges. It has served as a way for me to meet people in various fields and collaborate with so many bright individuals. Looking ahead, research offers opportunities to explore career paths, gain hands-on experience, and build a strong foundation for my graduate studies. Overall, research has empowered me to pursue my passions and discover new interests, which will shape my future career in science."

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

SAMPLE COURSES

- Paleobiology
- Plant Diversity
- Chordate Zoology
- Invertebrate Zoology



**Study abroad programs
available in:**

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



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