



### The Hartwick Difference

Hartwick's high-quality biology program demands much of its students, but it gives back even more:

- Small classes with lots of one-on-one professor-student interaction
- Real research experience in both laboratory and field
- State-of-the-art scientific equipment, available to all biology majors
- Award-winning faculty with a wide range of expertise
- Graduate-style seminars, small discussion groups, independent student research
- Opportunities to publish research in scientific journals
- Study-abroad in Madagascar, Thailand, Costa Rica, the Bahamas, and more

### Three-Year Program

Ready to move faster? Get the full Hartwick biology experience in three-quarters the time at three-quarters the cost. Learn more at [www.hartwick.edu/threeyeardegree](http://www.hartwick.edu/threeyeardegree).

### Major Components

**Begin with the basics:** Students begin by taking a process-based, one-semester topics course titled Biology in Practice, and then two semesters of content-rich courses titled Concepts in Biology. These courses prepare students for upper-level classes in the three core areas of biological study: Cell and Molecular Biology, Organismal Biology, and Ecology and Evolution.

In addition to biology classes, students gain a solid foundation in the physical sciences by taking general and organic chemistry, physics, and either calculus or statistics.

**Senior Research:** During their senior year, all biology majors complete a senior research project that is presented in the end-of-the-year Senior Research Symposium (and sometimes also at professional conferences). Past projects include investigations of gene expression in plants, impact of bovine growth hormone (BGH) treatment on animal development, sexual selection in animals, child nutrition in the hill tribes of northern Thailand, antibiotic-resistant bacteria, heart regeneration, and the ecology of invasive species. Abstracts of senior theses are published in the *Journal of Biological Research* ([www.hartwick.edu/biology](http://www.hartwick.edu/biology)).

[www.hartwick.edu/catalog](http://www.hartwick.edu/catalog)

### Course Highlights

For the full online course catalog and requirements, visit [www.hartwick.edu/catalog](http://www.hartwick.edu/catalog).

Students have many opportunities to conduct research with biology faculty. Hartwick students also have co-authored articles published in leading scientific journals, including *Science*, one of the most prestigious scientific journals in the world.

Biology majors use computer interfaces for real-time data acquisition and utilize a wide range of scientific instrumentation, including scanning and transmission electron microscopes, computer-assisted image



SMALL CLASSES



PERSONAL ATTENTION



STUDY ABROAD



NETWORK THROUGH INTERNSHIPS

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# Find your place.

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HARTWICK  
COLLEGE

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[www.hartwick.edu/biology](http://www.hartwick.edu/biology)

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For more information, contact  
the Office of Admissions  
at 607-431-4150 or  
888-HARTWICK (888-427-8942).

For specific inquiries, contact  
Dr. Mary Allen, Department Chair,  
at 607-431-4743 or  
[allenm1@hartwick.edu](mailto:allenm1@hartwick.edu).

analysis workstations, and phase contrast and fluorescence microscopes. A dedicated tissue-culture laboratory and Biotechnology Center house additional research-grade equipment. Interested students can obtain training in the use of any or all of this specialized equipment. Hartwick College's Pine Lake Campus also provides opportunities for students to perform research in natural settings and to take classes that explore local environments.

## Beyond the Classroom

**Off-Campus Courses:** Faculty-led programs include San Salvador (Bahamas), Costa Rica, Thailand, Madagascar, and Nepal. Students participate in internships in hospitals, laboratories, businesses, and environmental centers. Biology majors have completed internships and research experiences at Cambridge University, the Artificial Heart Lab at the University of Michigan, Bassett Research Institute, Tufts University Wildlife Clinic, Princeton University, the Cardio-Transplantation Unit at Columbia Presbyterian Hospital, Mote Marine Laboratory (Florida), Suffolk County Crime Lab, Oneonta Veterinary Associates, Welch Allyn Fitness Center, Bassett Medical Center Pharmacy, Oneonta's A.O. Fox Memorial Hospital's Emergency Room, and National Science Foundation-sponsored summer research sites.

Students have access to Pine Lake and the adjacent Riddell State Park. At these locations are a spring-fed lake, mountain stream, swamp, forest, and upland bog, and the R.R. Smith Biological Field Station, which is often used for student-faculty research and classes both within the Biology Department and the Environmental Science and Policy program. Students also take advantage of Hartwick's greenhouse, animal rooms, a "toadery" (which houses amphibians from all over the world), and the Hoysradt Herbarium, which houses a collection of more than 20,000 plant specimens from across the globe.

## Putting Biology to Work

Hartwick's biology graduates go on to careers in medicine, law, pharmaceuticals, dentistry, and many other health-related professions. Many pursue graduate studies and/or careers in molecular genetics, evolutionary biology, ecology, microbiology, environmental science, and forestry. Some graduates have sought employment at the John Wayne Cancer Institute and The Children's Hospital of Philadelphia, while others have chosen to pursue master's and doctoral degrees at some of the nation's most prestigious universities, including Harvard Medical School, Yale University, Cornell University, the College of William and Mary, University of Chicago, the University of Pennsylvania, and Johns Hopkins University.

## Faculty

**Mary E. Allen**, Professor; Ph.D., Florida State University. Areas of focus: microbiology, microbial ecology

**Allen R. Crooker**, Associate Professor; M.S., University of Maine; Ph.D., Washington State University. Areas of focus: entomology, pathology, neurobiology

**Eric Cooper**, Assistant Professor, Ph.D., Harvard University. Areas of focus: molecular and cellular biology

**Peter Fauth**, Associate Professor; M.S., University of Maryland; Ph.D., Purdue University. Areas of focus: evolutionary ecology, conservation biology

**Douglas Hamilton**, Professor; Ph.D., Cornell University. Area of focus: plant molecular biology

**Mark Kuhlmann**, Associate Professor; M.S., Ph.D., Florida State University. Areas of focus: marine and aquatic biology

**Laura Malloy**, Professor; M.A., SUNY Buffalo; Ph.D., University of Virginia. Areas of focus: cardiovascular physiology, exercise physiology, pharmacology, women in science

**Stanley K. Sessions**, Professor; Ph.D., University of California-Berkeley. Areas of focus: evolutionary and developmental biology, cytogenetics of amphibians

**Linda Swift**, Professor; M.S., University of Missouri; Ph.D., University of Kansas. Areas of focus: animal physiology and endocrinology, medicinal plants, nutrition