

Contemporary biology is built on understanding life at the molecular, cellular, organismal, population and community levels. The Tufts Department of Biology is dedicated to providing a unified and comprehensive view of biological processes for our students.

Program Concentrations

- Ecology, Behavior and Evolution
- Global Change Biology
- Genetics and Molecular Biology
- Developmental Biology
- Physiology, Neurobiology, and Biomechanics

APPLICATION DEADLINES

Fall: December 15

GRE General Test scores
and writing sample
required with application.

APPLY ONLINE AT

gradase.admissions.tufts.edu/apply

DEGREES OFFERED

Doctoral Degree in Biology - Ph.D.

The Department of Biology graduate program is arranged into five concentrations, each with an advisor and a core of faculty researchers. Befitting the integrative nature of biology, we encourage interdisciplinary research and collaborations between academic fields. The five concentrations consist of: Ecology, Behavior and Evolution; Global Change Biology; Genetics and Molecular Biology; Developmental Biology; and Physiology, Neurobiology and Biomechanics.

Master of Science in Biology (Thesis Track) - M.S.

Thesis M.S. students are assigned an advisory committee of three faculty members who work with the student to plan a suitable program. All Thesis M.S. candidates must complete eight graduate level course credits; typically half of the credits are for research and half for courses. To complete the Thesis M.S., the candidate is required to prepare and defend a thesis based on original research done under supervision of a departmental faculty member. Thesis M.S. students are eligible for tuition scholarships.

Master of Science in Biology (Coursework Track) - M.S.

Coursework M.S. students must complete eight graduate level course credits with a grade of B- or better. No more than two credits may be transferred from another institution. Students may complete this program on either a full-time or part-time basis. Applications are accepted for both the fall and spring semesters. Coursework M.S. students are normally not eligible for tuition scholarships or research assistantships from the university.



"From judging local science fairs to volunteering at the annual Community Day, the Tufts biology department provides me with a variety of opportunities for connecting with the local community, teaching biology, and sharing my research."

- Rachael Bonoan, second-year Ph.D. student

Experience and Outreach

The Tufts Department of Biology melds cutting-edge research with opportunities for graduate students to gain experience in teaching and community outreach. Our graduate students have an excellent record in securing funding for their research and for travel to professional conferences through internal and external grants. In addition, students receive training and financial support through teaching and research assistantships.

Students also benefit from strong collaborations within the department and between biology and other disciplines. The department has well-attended weekly seminars where students present and discuss their research findings, followed by social time. In addition to training opportunities, graduate students participate in the Biology Union of Graduate Students (BUGS), which promotes social, intellectual, and career exploration activities for graduate students in the department.

How to Apply:

Tufts University
Department of Biology
163 Packard Avenue
Medford, MA 02155
617-627-3195
eileen.magnant@tufts.edu

For Admissions questions, contact:

Tufts University
Office of Graduate Admissions
617-627-3395
gradadmissions@tufts.edu

APPLY ONLINE AT

gradase.admissions.tufts.edu/apply

Learn more about The Department of Biology: ase.tufts.edu/biology/

THE DEPARTMENT OF BIOLOGY

BIOLOGY FACULTY

Sergei Mirkin, Professor, Department Chair, White Family Chair in Biology
Genetics and Molecular Biology

Catherine H. Freudenreich, Professor, Graduate Program Director
Genetics and Molecular Biology, Genome Instability

Dany S. Adams, Research Associate Professor
Biophysical Regulation of Development and Regeneration*

Harry Bernheim, Associate Professor
Human Physiology and Immunology*

Frances Sze-Ling Chew, Professor
Ecology*

Elizabeth Crone, Associate Professor
Population ecology and dynamics

Erik B. Dopman, Associate Professor
Evolution and Genetics of Natural Populations

George S. Ellmore, Associate Professor
Experimental Plant Anatomy and Morphology*

Susan G. Ernst, Professor
Developmental Biology

Stephen M. Fuchs, Assistant Professor
Chemical Biology and Molecular Biology

Juliet A. Fuhrman, Associate Professor
Immunology and Infectious Disease*

Julia Svoboda Gouvea, Assistant Professor
Biology Education

Mimi Kao, Assistant Professor
Neurobiology and Behavior

Jane Kim, Research Assistant Professor
Genetics and Molecular Biology*

Susan Koegel, Senior Lecturer
Cell Biology and Immunology*

Sara M. Lewis, Professor
Evolutionary and Behavioral Ecology

Michael Levin, Vannevar Bush Chair, Professor and Director of Tufts Center for Regenerative and Developmental Biology
Morphological and behavioral information processing in living systems

Kelly McLaughlin, Associate Professor
Molecular Development (Organogenesis)

Mitch McVey, Associate Professor
Molecular biology, genomic instability

Ekaterina "Kate" Mirkin, Lecturer
Genetics*

Colin M. Orians, Professor
Plant Ecology and Plant-Herbivore Interactions

Jan A. Pechenik, Professor
Invertebrate Zoology and Marine Biology

J. Michael Reed, Professor
Conservation Biology

L. Michael Romero, Professor
Physiology and Neuroendocrinology of Stress in Vertebrates

Philip Starks, Associate Professor
Behavioral Ecology

Barry A. Trimmer, Professor, Henry Bromfield Pearson Professor of Natural Sciences
Neurobiology, Neuromechanics and Biorobotics

Eric D. Tytell, Assistant Professor
Biomechanics and Neural Control of Locomotion

Benjamin Wolfe, Assistant Professor
Ecology and evolution of microbial communities

** Indicates faculty members who are not currently accepting graduate students*

Tufts
UNIVERSITY

Graduate School
of Arts and Sciences