



MERRIMACK COLLEGE

SCHOOL OF SCIENCE & ENGINEERING



BIOLOGY (B.S.)

The **Biology Bachelor of Science (B.S.) degree** curriculum has a strong science foundation, with depth in life science, and multidisciplinary support in chemistry, physics and mathematics. The curriculum is diversified and interconnects with course offerings in related majors. Students also have opportunities for internships, directed study, senior thesis research and study abroad. In our small and hands-on classes and laboratories, we get to know you. Our integrated curriculum challenges you to read, write, discuss, think critically about, and most importantly *do* biological science.

MAJOR CONCENTRATIONS

The Biology major has three concentrations tracks:

- Molecular and Cellular Biology and Biotechnology
- Integrative Biology
- Ecology and Environmental Biology

ENGAGING COURSEWORK

A dynamic curriculum builds strong practical knowledge from introductory classes to specialized coursework. The curriculum progresses from core to advanced courses in biology, and includes chemistry, mathematics and physics. Our program offers:

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| BIO2010 Ecology | BIO2018 Genetics |
| BIO2012 Immunology | BIO3030 Cancer Biology |
| BIO3037 Cellular Biochemistry | BIO3049 Cell Biology |
| BIO3045 Microbiology | BIO3060 Plant Biology |
| BIO3063 Animal Behavior | BIO3064 Marine Biology |
| BIO3038 Molecular Biology and Biotechnology | |

REWARDING CAREER PATHS

The three concentrations reflect major fields of growth in life sciences today: biotechnology and biomedical research; careers in medicine; and ecology and the environment. Our students have successfully obtained employment in research positions in biotechnology and biomedical sciences laboratories, clinical laboratories, and pharmaceutical and biotechnology companies. Our students have also been employed in many other spheres, such as science education, state and federal regulatory agencies and environmental consulting firms. We have a consistent record of student placement in graduate and professional schools and our graduates have entered leading medical, dental and veterinary schools.

PROGRAM HIGHLIGHTS

HHMI SEA PHAGES Global Project

As a Howard Hughes Medical Institute Science Education Alliance member, Merrimack offers a unique opportunity for freshmen to participate in a global research project to discover new microorganisms. Students present their findings at the annual symposium at HHMI headquarters.

Blue Ocean Society Whale Research

Students and faculty collaborate with Blue Ocean Society scientists in the analysis of behavior, ecology and conservation of humpback and fin whale from the Jeffreys Ledge region of the Gulf of Maine.

Pfizer Partnership

Merrimack has formalized a long-term partnership with Pfizer that enables Merrimack students to augment their education by working alongside world-class scientists who are developing innovative, cutting edge solutions to today's problems.

Concentration Spotlight: Integrative Biology

In this concentration, students receive counseling to prepare for the application process to professional schools (medical, dental, veterinary, etc.). Merrimack's Health Professions Advisor meets with freshman to plan a program, and continues to meet with students throughout their academic career.

QUESTIONS?

Contact **Janine M. LeBlanc-Straceski, Associate Professor and Department Chair**, at:

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