MERRIMACK COLLEGE

SCHOOL OF
SCIENCE & ENGINEERING

Biochemistry

The biochemistry curriculum provides a thorough understanding of the chemical principles, both theoretical and practical. A strong emphasis is placed on laboratory work and excellent chemical instrumentation facilities are available for student use. Our program is approved by the American Chemical Society and is designed to give our students the broad scientific foundation they will need to be successful scientists. Students can earn either a B.A. or a B.S. degree in Biochemistry.

ENGAGING COURSEWORK

A dynamic curriculum builds strong practical knowledge from introductory classes to specialized coursework.
The curriculum is designed to allow biochemistry majors to learn fundamental chemical and biological concepts, as well as laboratory skills in both areas. The curriculum includes a combination of courses in chemistry, biology, math and physics.
A selection of program coursework includes:

CHM3570 Biophysical Chemistry
BIO/CHM3037 Cellular Biochemistry
CHMXXXX Medicinal Chemistry
CHM4350 Bioinorganic Chemistry

REWARDING CAREER PATHS

A Merrimack biochemistry degree provides a strong foundation for success in a range of careers and in graduate school. About 50% of our majors go on to graduate or professional school in chemistry, biochemistry, medicine, pharmacy, veterinary medicine, dentistry, and other fields. Coupling a B.A. in Biochemistry degree with additional coursework in business, health science or education provides students with greater opportunities for many highly coveted non-traditional science careers.

Some of our recent graduates are:

- engaged in Ph.D. programs at Boston College and Tufts University;
- employed by companies including Pfizer and Enzymatics;
- enrolled in medical school (Dartmouth College and University of Vermont) and Physician Assistant programs (MCPHS University).

PROGRAM HIGHLIGHTS

Independent Research Projects
Independent research is encouraged and strongly recommended for all biochemistry majors. Students and faculty work side-by-side on research focusing on the:

- discovery of new compounds that can be used to treat tuberculosis and other diseases;
- isolation and identification of medicinally-active compounds in common foods; and
- synthesis of agents to combat opioid addiction.

Students have the opportunity to conduct their research during the academic year or in the summer and to present their work at regional and national conferences and publish in peer-reviewed scientific journals.

QUESTIONS?

Contact **Jimmy Franco, Associate Professor, and Department Chair**

- francoj@merrimack.edu
- (978) 837-5285