## BIOCHEMISTRY

## Bruce E. Bowler, Program Director

The Biochemistry Program is a joint program between the Department of Chemistry and Biochemistry and the Division of Biological Sciences. Biochemistry is an interdisciplinary science that integrates chemistry and biology to understand the molecular basis of life. The program offers a B.S. in Biochemistry and M.S. and Ph.D. degrees in Biochemistry \& Biophysics.

Undergraduate majors receive a solid foundation in both chemistry and biology. Biochemistry courses are usually taken in the junior year allowing majors to become involved in research with faculty and to take electives in their senior year. The major also introduces students to computer science and bioinformatics, essential tools in modern biochemistry. The B.S. in Biochemistry prepares students for advanced degrees in biochemistry or biophysics, for medical, dental or veterinary schools and for careers in the pharmaceutical and biotechnology industries. A Health Professions option is also offered within the B.S. in Biochemistry for students whose career goals are in fields related to biochemistry. This option allows more flexibility in upper division electives, permitting students to tailor the degree to their needs. Students desiring a basic grounding in biochemistry to complement their primary major can choose to pursue a minor in Biochemistry.

The graduate degrees in Biochemistry \& Biophysics prepare students to be independent researchers in academic laboratories or in the biotechnology and pharmaceutical industries. Through coursework and independent research, graduate students in this program will become adept at the physical and structural methods necessary to probe important problems in the life sciences at the molecular level. In collaboration with the Center for Biomolecular Structure \& Dynamics, the Biochemistry Program provides state-of-the-art facilities for research in biochemistry, biophysics and structural biology.

Prospective students desiring further information on these degrees should contact the Program Director by visiting the Biochemistry Program web site (http://hs.umt.edu/biochemistry).

High School Preparation: In addition to the general University admission requirements, it is strongly recommended that a student take four years of mathematics, four years of science, and a foreign language.

## Undergraduate

- Biochemistry B.S. (http://catalog.umt.edu/past-catalogs/2017-2018/ colleges-schools-programs/humanities-sciences/biochemistry/bsbiochemistry)
- Biochemistry B.S., Health Professions Concentrations (http:// catalog.umt.edu/past-catalogs/2017-2018/colleges-schools-programs/humanities-sciences/biochemistry/bs-biochemistry-healthprofessions)


## Undergraduate Minors

- Biochemistry (http://catalog.umt.edu/past-catalogs/2017-2018/ colleges-schools-programs/humanities-sciences/biochemistry/ biochemistry-minor)

