BIOCHEMISTRY

BACHELOR OF SCIENCE

Biochemistry explores the chemical processes that occur in living matter. Biochemical concepts are the basis for research in physiology, nutrition, environmental and health sciences, and many other disciplines.
BIOCHEMISTRY
Bachelor of Science

Program Overview

The biochemistry bachelor of science program includes basic courses in calculus, biology, chemistry and physics. Advanced courses in both biology and chemistry are also included, along with specialty biochemistry courses offered jointly in the Biology and Chemistry departments.

Laboratory courses form an important component of the curriculum and include such diverse techniques as polymerase chain reaction, protein purification, gel electrophoresis, computational chemistry and spectroscopy. This hands-on experience is essential, providing the appropriate context for knowledge obtained in lecture courses.

Courses include:

- Biophysical Chemistry
- Biotechnology
- Cell Structure & Function
- Comparative Animal Physiology
- Developmental Genetics
- Embryology
- Endocrinology
- Freshwater Ecology
- Human Genetics
- Immunology
- Inorganic Chemistry
- Invertebrate Biology
- Mammalian Physiology
- Marine Ecology
- Organic Structure and Mechanisms
- Systems Neuroscience
- Techniques of Chemical Measurement
- Tropical Marine Biology

Career Options

The program prepares students for success in medical school, as well as employment in the chemical, biotechnological and pharmaceutical industries. The degree is also a stepping stone to graduate programs in biochemistry, bio-engineering, biotechnology, cell biology and many other related fields.

Faculty Contacts

Dr. Angela Bricker
215-204-8578
abricker@temple.edu

Dr. Steven Fleming (Last names A-C)
215-204-0359
sfleming@temple.edu

Dr. Roy Keyer (D-G)
215-204-7286
roy.keyer@temple.edu

Dr. Spiridoula Matsika (Last names H-K)
215-204-7703
smatsika@temple.edu

Dr. Andrew Price (Last names L-M)
215-204-1048
Price.Andrew@temple.edu

Dr. Vincent Voelz (Last names N-R)
215-204-1973
Vincent.Voelz@Temple.edu

Vladimira Wilent (Last names S-T)
215-204-7186
VWilent@temple.edu

Dr. Michael Zdilla (last names U-Z)
215-204-7886
mzdilla@temple.edu

Research Opportunities

Real-world, hands-on research means students learn the latest scientific techniques, from the necessary basics to high-tech analysis. The Biology and Chemistry departments have strong research programs supported by the National Science Foundation and other funders. Students are encouraged to participate in a research project in a faculty lab, either through the college’s Undergraduate Research Program (URP) or separately. Students can present their work at the annual URP symposium or potentially have their work published in a scientific journal.

CST Department of Chemistry  chem.cst.temple.edu
CST Department of Biology  bio.cst.temple.edu
Temple University College of Science and Technology  215-204-2890  cst.temple.edu