



Biochemistry

BIOCHEMISTRY

Biochemistry is the study of the structures and chemical reactions found in living systems. As a field, biochemistry is rapidly expanding. Alone, it is an exciting science with limitless challenges and opportunities; coupled with human concerns, biochemical concepts and techniques have become the basis for research in physiology, nutrition, environmental and health sciences, and many other disciplines.

THE B.S. PROGRAM IN BIOCHEMISTRY:

The biochemistry program consists of basic courses in calculus, biology, chemistry and physics; advanced courses in all of these disciplines; and specialty biochemistry courses offered jointly in the Biology and Chemistry Departments. Ample opportunity is provided for a research program with individual faculty members both in biology and chemistry whose interests lie in the biochemistry area. The current recommended course schedule for the BS in biochemistry supposes that one year of calculus, one year each general and organic chemistry, one year of biology and one year of physics (with calculus) be completed in the first two years of the curriculum.

RESEARCH OPPORTUNITIES AND HONORS IN THE MAJOR:

Junior and senior biochemistry students with a strong grade point average are encouraged to participate in ongoing research in the laboratory of a biochemistry faculty member. Formal registration is required, along with written permission of the faculty member and a biochemistry advisor. Involved faculty can be contacted directly. The research interests of the biochemistry faculty can be found by going to the appropriate website (www.temple.edu/biology) or (www.chem.temple.edu).



CHEMISTRY COURSES

INCLUDE

- Organic Chemistry
- Physical Chemistry
- Inorganic Chemistry
- Inorganic Synthesis
- Techniques of Chemical Measurement
- Organic Structure and Mechanisms

BIOLOGY COURSES

INCLUDE

- Genetics
- Cell Structure and Function
- Molecular Biology
- Mammalian Physiology
- Embryology
- General Microbiology
- Neurobiology
- Biochemical Embryology
- Endocrinology
- Comparative Animal Physiology
- Cell Proliferation
- Physical Biochemistry
- Membrane Biochemistry & Biophysics

Department of Biology
Telephone: (215) 204-8851
<http://www.temple.edu/biology>

Department of Chemistry
Telephone: (215) 204-7118
<http://www.chem.temple.edu>