The biochemistry minor allows students to engage in interdisciplinary study of biochemistry to complement their major plans of study.

**Minor Requirements**

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

The biochemistry minor is not available to majors in biology or cell and molecular biology due to curricular overlap.

**Required Courses**

**Core Courses**

- **BIOL 4707** Cell and Molecular Biology 4
- **and BIOL 3612** and Lab for BIOL 3611 5
- **CHEM 4620** Introduction to Protein Chemistry 4

**Biology Core Course**

Complete one of the following course options: 4

- **BIOL 2321** and BIOL 2322 Microbiology and Lab for BIOL 2321
- **BIOL 2327** Human Parasitology
- **BIOL 3405** Neurobiology
- **BIOL 3409** Current Topics in Biology
- **BIOL 3605** Developmental Neurobiology
- **BIOL 3609** Developmental Biology
- **BIOL 5306** Biological Clocks
- **BIOL 5307** and BIOL 5308 Biological Electron Microscopy and Lab for BIOL 5307
- **BIOL 5499** Plant Biotechnology
- **BIOL 5541** Endocrinology
- **BIOL 5543** Stem Cells and Regeneration
- **BIOL 5549** Microbial Biotechnology
- **BIOL 5553** Biology of Muscle: Molecules to Movements
- **BIOL 5573** Medical Microbiology
- **BIOL 5581** Biological Imaging
- **BIOL 5583** Immunology
- **BIOL 5591** Advanced Genomics
- **BIOL 5593** Cell and Molecular Biology of Aging

**Chemistry Core Course**

Complete one of the following course options: 4

- **CHEM 2331** and CHEM 2332 Bioanalytical Chemistry and Lab for CHEM 2331
- **CHEM 2341** and CHEM 2342 Forensic Chemistry 1 and Lab for CHEM 2341
- **CHEM 3431** and CHEM 3432 Physical Chemistry and Lab for CHEM 3431
- **CHEM 4621** and CHEM 4622 Introduction to Chemical Biology and Lab for CHEM 4621

**CHEM 4628** and CHEM 4629 Introduction to Spectroscopy of Organic Compounds and Identification of Organic Compounds

**CHEM 5550** Introduction to Glycobiology and Glycoprotein Analysis

**CHEM 5611** Analytical Separations

**CHEM 5612** Principles of Mass Spectrometry

**CHEM 5613** Optical Methods of Analysis

**CHEM 5616** and CHEM 5617 Protein Mass Spectrometry and Protein Mass Spectrometry Laboratory

**CHEM 5625** Chemistry and Design of Protein Pharmaceuticals

**CHEM 5638** Molecular Modeling

**CHEM 5644** Principles and Analysis of Carbohydrates

**CHEM 5645** Drug Discovery and Development

**CHEM 5676** Bioorganic Chemistry

**GPA Requirement**

2.000 GPA required in the minor