Biochemistry, Minor

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, cell and molecular biology, biochemistry, or any combined major that involves biochemistry, due to curricular overlap.

**Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
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<tr>
<td>BIOL 4707</td>
<td>Cell and Molecular Biology</td>
<td>4</td>
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<tr>
<td>BIOL 3611</td>
<td>Biochemistry and Lab for BIOL 3611</td>
<td>5</td>
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<tr>
<td>CHEM 5620</td>
<td>Protein Chemistry</td>
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**Biology Core Course**

Complete one of the following course options (other advanced BIOL courses may be accepted at the discretion of the Biochemistry Director):

- BIOL 2327 Human Parasitology
- BIOL 3405 Neurobiology
- BIOL 3421 Microbiology and Lab for BIOL 3421
- BIOL 3409 Current Topics in Biology
- BIOL 3605 Developmental Neurobiology
- BIOL 5306 Biological Clocks
- BIOL 5307 Biological Electron Microscopy and Lab for BIOL 5307
- BIOL 5541 Endocrinology
- BIOL 5543 Stem Cells and Regeneration
- BIOL 5549 Inventions in Microbial Biotechnology
- BIOL 5573 Medical Microbiology
- BIOL 5581 Biological Imaging
- BIOL 5583 Immunology
- BIOL 5591 Advanced Genomics
- BIOL 5593 Cell and Molecular Biology of Aging
- BIOL 5597 Immunotherapies of Cancer and Infectious Disease

**Chemistry Core Course**

Complete one of the following course options (other advanced CHEM courses may be accepted at the discretion of the Biochemistry Director):

- CHEM 3331 Bioanalytical Chemistry and Lab for CHEM 3331
- CHEM 3431 Physical Chemistry and Lab for CHEM 3431
- CHEM 4621 and CHEM 4622 Introduction to Chemical Biology and Lab for CHEM 4621
- CHEM 4460 Enzymes: Chemistry and Chemical Biology
- 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 Protein Mass Spectrometry and Protein Mass Spectrometry Laboratory
- CHEM 5625 Chemistry and Design of Protein Pharmaceuticals
- CHEM 5638 Molecular Modeling
- CHEM 5676 Bioorganic Chemistry

**GPA Requirement**

2.000 GPA required in the minor