# Minor in Chemistry

A minor in chemistry requires foundational coursework in calculus and physics, general chemistry, organic chemistry, quantitative analysis, and six units of upper-division chemistry electives. It may be appropriate for students interested in careers that involve some knowledge of chemistry and chemical laboratory work, but not a full degree in chemistry.

## Requirements for a Minor in Chemistry (38-46 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 2100</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 2100L</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
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<tr>
<td>CHEM 2200</td>
<td>General Chemistry II</td>
<td>4</td>
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<tr>
<td>CHEM 2200L</td>
<td>General Chemistry II Laboratory</td>
<td>1</td>
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The organic chemistry requirement may be met by either:

- CHEM 2300 Organic Chemistry for Life Sciences
- CHEM 2400L Organic Chemistry I Laboratory

or the following four courses:

- CHEM 2400 Organic Chemistry I Lecture
- CHEM 2400L Organic Chemistry I Laboratory
- CHEM 2500 Organic Chemistry II
- CHEM 2500L Organic Chemistry II Laboratory

- CHEM 3200 Quantitative Analysis

Choose either of the following: 3-8 units

- MATH 1601 Modeling with Calculus
- MATH 2210 & MATH 2220 Calculus I and Calculus II
- PHYS 2000 Introduction to Physics I
- PHYS 2000L Introduction to Physics I Lab
- PHYS 2010 Introduction to Physics II
- PHYS 2010L Introduction to Physics II Lab

Note: Physics requirement may be met by taking PHYS 2500, 2500L, 2510, and 2510L (10 units) instead of PHYS 2000, 2000L, 2010 and 2010L.

Choose 6 units of upper-division chemistry electives from the following list:

- CHEM 4100 Biochemistry I
- CHEM 4200 Biochemistry II
- CHEM 4300 Inorganic Chemistry
- CHEM 4350 Bioinorganic Chemistry
- CHEM 4400 Physical Chemistry I
- CHEM 4500 Physical Chemistry II
- CHEM 4600 Physical Chemistry for Biochemists I
- CHEM 4700 Physical Chemistry for Biochemists II
- CHEM 5001 Topics in Chemistry
- CHEM 5001L Topics in Chemistry Laboratory
- CHEM 5002 Topics in Chemistry
- CHEM 5100 Polymer Science
- CHEM 5150 Materials Chemistry
- CHEM 5200 Instrumental Analysis
- CHEM 5300 Environmental Chemistry
- CHEM 5400 Chemistry of the Elements

**Total Units: 38-46**