# Minor in Chemistry

## Requirements for a minor in Chemistry

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>CHEM 215</td>
<td>General Chemistry I: Atomic Structure and Chemical Bonding</td>
<td>6</td>
</tr>
<tr>
<td>CHEM 216</td>
<td>General Chemistry II: Principles of Chemical Reactions</td>
<td>6</td>
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A minimum of twelve units, choose Group A or B below:

### Group A:
- CHEM 221A Organic Chemistry I Lecture
- CHEM 221B Organic Chemistry I Lab
- CHEM 222A Organic Chemistry II Lecture
- CHEM 222B Organic Chemistry II Lab
- CHEM 223A Organic Chemistry III Lecture
- CHEM 223B Organic Chemistry III Lab

### Group B:
- CHEM 321 Principles of Organic Chemistry I
- CHEM 322 Principles of Organic Chemistry II
- CHEM 323 Principles of Organic Chemistry III
- CHEM 345 Modern Quantitative Analysis | 5     |

MATH 192 Methods of Calculus | 4     |
or MATH 212 Calculus II

One year of introductory physics. CSUSB physics sequences that satisfy this requirement are:

### Sequence A:
- PHYS 121 Basic Concepts of Physics I
- PHYS 122 Basic Concepts of Physics II
- PHYS 123 Basic Concepts of Physics III

### Sequence B:
- PHYS 221 General Physics I
- PHYS 222 General Physics II
- PHYS 223 General Physics III

Ten additional upper-division units in chemistry. The following courses may not be used to satisfy this requirement: CHEM 301, CHEM 590A, CHEM 590B, or CHEM 597.

## Total Units

56-61