MINOR IN CHEMISTRY

The Department of Chemistry offers a minor in Chemistry to interested students from other disciplines. A minor in Chemistry provides students the opportunity to land a job in the intersection of multiple fields, like veterinary technician, research associate, teacher, environmental coordinator, laboratory analyst, computational analyst, among other interdisciplinary careers. Pursuing a Chemistry minor is also a valuable asset to prepare for any professional or graduate degree.

Requirements
Effective Fall 2023

A minimum grade of C- is required in all of the courses required for the minor.

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Division</td>
<td></td>
<td></td>
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<tr>
<td>Choose one group from the following:</td>
<td>9-10</td>
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<tr>
<td>Group A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 111</td>
<td>General Chemistry I (GT-SC2)</td>
<td></td>
</tr>
<tr>
<td>or CHEM 107</td>
<td>Fundamentals of Chemistry (GT-SC2)</td>
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<tr>
<td>CHEM 112</td>
<td>General Chemistry Lab I (GT-SC1)</td>
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<tr>
<td>or CHEM 108</td>
<td>Fundamentals of Chemistry Laboratory (GT-SC1)</td>
<td></td>
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<tr>
<td>CHEM 113</td>
<td>General Chemistry II</td>
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</tr>
<tr>
<td>CHEM 114</td>
<td>General Chemistry Lab II</td>
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<tr>
<td>Group B</td>
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<tr>
<td>CHEM 120</td>
<td>Foundations of Modern Chemistry (GT-SC2)</td>
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<tr>
<td>CHEM 121</td>
<td>Foundations of Modern Chemistry Laboratory (GT-SC1)</td>
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<tr>
<td>CHEM 231</td>
<td>Foundations of Analytical Chemistry</td>
<td></td>
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<tr>
<td>CHEM 232</td>
<td>Foundations of Analytical Chemistry Laboratory</td>
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<tr>
<td>Upper Division</td>
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<td>15</td>
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<tr>
<td>Select a minimum of 15 credits from the following courses from at least two different areas of chemistry - analytical, biological, inorganic, organic, and physical; at least 12 credits must be upper-division courses (300-499). ¹ ²</td>
<td></td>
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<tr>
<td>Analytical</td>
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<td></td>
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<tr>
<td>CHEM 231</td>
<td>Foundations of Analytical Chemistry</td>
<td></td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Foundations of Analytical Chemistry Laboratory</td>
<td></td>
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<tr>
<td>CHEM 334</td>
<td>Quantitative Analysis Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 335</td>
<td>Introduction to Analytical Chemistry</td>
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</tr>
<tr>
<td>CHEM 338</td>
<td>Environmental Chemistry</td>
<td></td>
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<tr>
<td>CHEM 431</td>
<td>Instrumental Analysis</td>
<td></td>
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<tr>
<td>CHEM 433</td>
<td>Clinical Chemistry</td>
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<tr>
<td>Biological</td>
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<tr>
<td>CHEM 320</td>
<td>Chemistry of Addictions</td>
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<tr>
<td>CHEM 321</td>
<td>Foundations of Chemical Biology</td>
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<tr>
<td>or BC 351</td>
<td>Principles of Biochemistry</td>
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<tr>
<td>or BC 401</td>
<td>Comprehensive Biochemistry I</td>
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</tbody>
</table>

Program Total Credits: 24-25

¹ At least one of these courses must include a laboratory. No more than three of the 15 upper-division chemistry credits may be fulfilled by CHEM 301, CHEM 384, CHEM 487, CHEM 493, CHEM 495, or CHEM 498.

² The following courses may count as laboratory: CHEM 232, CHEM 242, CHEM 246, CHEM 264, CHEM 322, CHEM 334, CHEM 344, CHEM 345, CHEM 346, CHEM 372, CHEM 431, CHEM 433, CHEM 440, CHEM 462, CHEM 475, CHEM 477, CHEM 498 (up to three credits only).