Chemistry, Minor

The Chemistry minor consists of five courses for a minimum of 19 credit hours.

**Minor in Chemistry**

The Chemistry minor consists of five courses for a minimum of 19 credit hours, as listed below:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Chemistry Courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1001</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1013</td>
<td>General Chemistry 1 for Majors</td>
<td></td>
</tr>
<tr>
<td>CHEM 1002</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 1014</td>
<td>General Chemistry 2 for Majors</td>
<td></td>
</tr>
<tr>
<td>CHEM 2111</td>
<td>Organic Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 2113</td>
<td>Organic Chemistry for Majors 1</td>
<td></td>
</tr>
<tr>
<td>CHEM 2112</td>
<td>Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 2114</td>
<td>Organic Chemistry for Majors 2</td>
<td></td>
</tr>
<tr>
<td>Elective Course: Choose one upper-division CHEM course or one of the following.</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 4012</td>
<td>Quantum Mechanics</td>
<td></td>
</tr>
<tr>
<td>PHYS 4062</td>
<td>Introduction to Thermodynamics</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- CHEM 4956 Undergraduate Research in Chemistry or CHEM 4995 Independent Study in Chemistry may not be counted toward the minor.

**Department of Public Instruction Certification**

College of Education students wishing to pursue Department of Public Instruction Certification must complete the following courses listed below for a total of 22 credit hours:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Chemistry courses:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1001</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1002</td>
<td>General Chemistry 2</td>
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<tr>
<td>CHEM 2112</td>
<td>Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>or CHEM 2114</td>
<td>Organic Chemistry for Majors 2</td>
<td></td>
</tr>
<tr>
<td>CHEM 3201</td>
<td>Foundations of Analytical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Electives - Choose two credit hours of Chemistry electives</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>22</td>
<td></td>
</tr>
</tbody>
</table>

**University Policies**

- Academic Advising (https://bulletin.marquette.edu/policies/academic-advising/)
- Academic Censure - Undergraduate (https://bulletin.marquette.edu/policies/academic-censure/undergraduate/)
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- Academic Program Definitions (https://bulletin.marquette.edu/policies/academic-programs-defined/)
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- Accelerated Degree Programs (https://bulletin.marquette.edu/policies/accelerated-degree-programs/)
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Chemistry, Minor

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- Majors and Minors (https://bulletin.marquette.edu/arts-sciences/policies/majors-minors/)
- Transfer Credit Policy (https://bulletin.marquette.edu/arts-sciences/policies/transfer-credit-policy/)

College of Health Sciences Policies

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- Academic Integrity (https://bulletin.marquette.edu/healthscienceprofessional/policies/academic-integrity/)
- Advisers (https://bulletin.marquette.edu/healthscienceprofessional/policies/advisers/)
- Attendance (https://bulletin.marquette.edu/healthscienceprofessional/policies/attendance/)
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- Majors and Minors (https://bulletin.marquette.edu/healthscienceprofessional/policies/majors-minors/)
- Transfer Credit Policy (https://bulletin.marquette.edu/healthscienceprofessional/policies/transfer-credit-policy/)

College of Health Sciences Professional Programs Policies

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