# CHEMISTRY (SCIENCES AND LETTERS)

For the Degree of Bachelor of Science in Liberal Arts and Sciences

**Major in Chemistry (Sciences and Letters)**

For advising contact SCS Academic Advising (http://publish.illinois.edu/scsadvising)

Minimum required major and supporting course work normally equates to 48-51 hours including at least 30 hours in Chemistry or Biochemistry courses

General education: Students must complete the Campus General Education (https://courses.illinois.edu) requirements including the campus general education language requirement.

Twelve hours of 300- or 400-level courses in Chemistry and/or Biochemistry must be taken on this campus.

**NOTE:** Transfer credit in chemistry must be approved by an adviser in chemistry in order to be included in the 30 hours.

Minimum hours required for graduation: 120 hours

Departmental distinction: Students qualify for graduation with distinction by exhibiting superior performance in both course work and in senior thesis research. To be eligible, a student must have a major grade point average of 3.25, must take CHEM 499 (normally for two semesters) and submit a senior thesis for evaluation, and must have their undergraduate research advisor submit to the department Head a letter of support attesting to the effort invested by the student. The minimum major GPAs for Distinction, High Distinction, and Highest Distinction are 3.25, 3.5, and 3.75 respectively. Final decisions on awarding Distinction honors will be made by the Head or designee.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 440</td>
<td>Physical Chemistry Principles or CHEM Physical Chemistry I</td>
<td>22-26</td>
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<tr>
<td></td>
<td>Two other 300- or 400-level courses, at least one of which must be outside physical chemistry.</td>
<td>4-8</td>
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<tr>
<td>MATH 220</td>
<td>Calculus or MATH 221 Calculus I</td>
<td>4-5</td>
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<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td>3</td>
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<tr>
<td>MATH 241</td>
<td>Calculus III</td>
<td>4</td>
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<td>Select one of the following:</td>
<td>8-10</td>
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<tr>
<td>PHYS 101</td>
<td>College Physics: Mech &amp; Heat &amp; PHYS 102 Colleage Physics: E&amp;M &amp; Modern</td>
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<tr>
<td>PHYS 211</td>
<td>University Physics: Mechanics &amp; PHYS 212 University Physics: Elec &amp; Mag</td>
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1 Excluding CHEM 101, CHEM 108, and CHEM 199.

2 No more than 10 hours of the following courses may count toward the 22-26 hours in Chemistry: CHEM 197, CHEM 199, CHEM 297, CHEM 397, CHEM 496, CHEM 497, and CHEM 499.