CHEMISTRY TEACHING CONCENTRATION

For the Degree of Bachelor of Science in Liberal Arts and Sciences
Major in Chemistry (Sciences and Letters), Chemistry Teaching Concentration

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

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 must be taken on this campus.

Minimum hours required for graduation: 120 hours

This concentration fulfills state certification requirements to teach high school (grades 9-12) chemistry through the AP/honors level and biology, earth and space science, environmental science and physics up to but not including the AP/honors level.

Students in this concentration must complete the Teacher Education Minor in Secondary School Teaching (39 hours). See the College of Education section for requirements of the minor (http://catalog.illinois.edu/undergraduate/education/secondary).

Time to degree completion varies. Minimum time to completion is 8 semesters. Some students require 10 semesters. Transfer students may need 10 total semesters combined to complete the program. Please see the LAS section in the transfer handbook (https://admissions.illinois.edu/Content/docs/Handbook_LAS.pdf) for more information.

To remain in good standing in this program and be recommended for certification, candidates are required to maintain UIUC, cumulative, content area, and professional education, grade-point averages of 2.5 (A=4.0). Candidates should consult their advisor or the Council on Teacher Education for the list of courses used to compute these grade-point averages.

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 an 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. Students in the Chemistry Teaching Concentration may submit their final teaching portfolio for evaluation in lieu of taking CHEM 499 and submitting a senior thesis. Final decisions on awarding Distinction honors will be made by the Head or designee.

## Code  Title  Hours
### Foundation Courses
The following courses must be completed or in progress when students apply to the Secondary Education minor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Foundation Courses</th>
<th>Hours</th>
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Select one group of courses (Accelerated or General Chemistry):

- CHEM 202 Accelerated Chemistry I
- & CHEM 203 and Accelerated Chemistry Lab I
- & CHEM 204 and Accelerated Chemistry II
- & CHEM 205 and Accelerated Chemistry Lab II

or

- CHEM 102 General Chemistry I
- & CHEM 103 and General Chemistry Lab I
- & CHEM 104 and General Chemistry II
- & CHEM 105 and General Chemistry Lab II
- & CHEM 22:and Quantitative Analysis Lecture
- & CHEM 22:and Quantitative Analysis Lab

Select one of the following Organic Chemistry course groups: 5-6

- CHEM 236 Fundamental Organic Chem I
- & CHEM 23 and Structure and Synthesis

or

- CHEM 232 Elementary Organic Chemistry I
- & CHEM 23:and Elementary Organic Chem Lab I

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<tr>
<th>Code</th>
<th>Title</th>
<th>Additional Required Coursework</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 202 Accelerated Chemistry I &amp; CHEM 203 and Accelerated Chemistry Lab I</td>
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<tr>
<td>CHEM 102 General Chemistry I &amp; CHEM 103 and General Chemistry Lab I</td>
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<tr>
<td>CHEM 236 Fundamental Organic Chem I &amp; CHEM 23 and Structure and Synthesis</td>
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<tr>
<td>MATH 220 Calculus</td>
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<td>Additional Required Coursework</td>
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<td>or MATH 221 Calculus I</td>
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<td>MATH 231 Calculus II</td>
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### Additional Required Coursework

- Teacher Education Minor in Secondary School Teaching (http://catalog.illinois.edu/undergraduate/education/secondary) 39
- CHEM 495 Teaching Secondary Chemistry 4
- CHEM 440 Physical Chemistry Principles 4
- or CHEM 44:Physical Chemistry I 4
- At least four additional hours of 300- or 400-level chemistry and/or biochemistry course work. 4
- ASTR 100 Introduction to Astronomy 3
- GEOL 107 Physical Geology 4
- IB 100 Biology in Today's World 3
- MATH 241 Calculus III 4
- PHYS 211 University Physics: Mechanics 4
- PHYS 212 University Physics: Elec & Mag 4
- PHYS 214 Univ Physics: Quantum Physics 2

Information listed in this catalog is current as of 06/2018