# BIOLOGY TEACHING

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

E-mail: advising@life.uiuc.edu

Minimum required courses normally equate to 79-82 hours in the major and 39 hours for the Teacher Education Minor in Secondary School Teaching.

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

Twelve hours of 300- and 400-level courses in the major must be taken on this campus.

Minimum hours required for graduation: 120 hours

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

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

Time to degree completion varies. Minimum time to completion is 8 semesters, but some students may require 10 semesters. Transfer students may need 10 total semesters combined to complete the program. Please see the LAS section in the transfer handbook [here](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 [here](http://catalog.illinois.edu/undergraduate/cte) for the list of courses used to compute these grade-point averages.

Departmental distinction: To graduate with distinction, the student must have at least a 3.5 grade point average for all work completed, and present evidence of exemplary student teaching.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 105</td>
<td>General Chemistry Lab II</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I</td>
<td>3-4</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Elementary Organic Chem Lab I</td>
<td>2</td>
</tr>
</tbody>
</table>

One required 200-level IB course selected from required courses below.

## Additional Required Coursework

Teacher Education Minor in Secondary School Teaching [here](http://catalog.illinois.edu/undergraduate/education/secondary) 39

- **IB 150** Organismal & Evolutionary Biol 4
- **MCB 150** Molec & Cellular Basis of Life 4
- **IB 202** Physiology 2 4
- **IB 203** Ecology 4
- **IB 204** Genetics 4
- **IB 302** Evolution 4
- **MCB 250** Molecular Genetics 3
- **MCB 251** Exp Technqs in Molecular Biol 2
- **MCB 252** Cells, Tissues & Development 3
- **MCB 253** Exp Technqs in Cellular Biol 2
- **PHYS 101** College Physics: Mech & Heat 5
- **PHYS 102** College Physics: E&M & Modern 5
- **GEOL 107** Physical Geology 4
- **ASTR 100** Introduction to Astronomy 3
- or **ASTR 210** Introduction to Astrophysics 3

3-4

Select one of the following:

- **EPSY 480** Educational Statistics
- **STAT 212** Biostatistics

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Additional 300- and 400-level courses selected from IB and/or MCB in consultation with the advisor.

1. Students should speak with an advisor to help choose the appropriate section of CHEM 232 and CHEM 233.
2. IB 202 requires animal dissection and no equivalent alternative is available.