**BIOLOGY TEACHING CONCENTRATION**

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

**Major in Biology, Biology Teacher Education Concentration**

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 (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 (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 (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 (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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td></td>
<td>The following courses must be completed or in progress when students apply to the Secondary Education minor.</td>
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<tr>
<td>MATH 220</td>
<td>Calculus (Biocalculus section recommended) or MATH 222 Calculus I</td>
<td>4-5</td>
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<tr>
<td>CHEM 102</td>
<td>General Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
<td>1</td>
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<tr>
<td>CHEM 104</td>
<td>General Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 232</td>
<td>Elementary Organic Chemistry I 1</td>
<td>3-4</td>
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<tr>
<td>CHEM 233</td>
<td>Elementary Organic Chem Lab I 1</td>
<td>2</td>
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One required 200-level IB course selected from required courses below.

One required 200-level MCB course (and its lab course) selected from required courses below.

**Additional Required Coursework**

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

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 Techniqs in Molecular Biol | 2 |
MCB 252 | Cells, Tissues & Development | 3 |
MCB 253 | Exp Techniqs 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

Select one of the following: 3-4

EPSY 480 | Educational Statistics |
STAT 212 | Biostatistics |

Additional 300- and 400-level courses selected from IB and/or MCB in consultation with the advisor. 8

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.