Biology Teacher Education Option

Your work and extracurricular activities indicate that you enjoy explaining ideas or have an interest in contributing to the improvement of our schools. If your passion is getting others excited about biology, teaching may be the path for you.

To become certified to teach biology in a public middle or high school, you can start as a biology major—taking biology courses in both IB and MCB—and then switch to a specialized teacher’s curriculum before you graduate. If accepted into the program, during your junior year, your major will change to the Biology Teacher Education Option, with a minor in Secondary Education.

### Introductory Courses
- IB 150 Organismal and Evolutionary Biology
- MCB 150 Molecular and Cellular Basis of Life

### Core Biology Courses
- IB 202 Anatomy and Physiology*
- IB 203 Ecology*
- IB 204 Genetics*
- IB 302 Evolution*
- MCB 250 Molecular Genetics
- MCB 251 Experimental Molecular Biology*
- MCB 252 Cells, Tissues, & Development
- MCB 253 Experimental Cell Biology*

### Supporting Courses
- MATH 220 or 221 Calculus
- CHEM 102 General Chemistry I
- CHEM 103 General Chemistry I Lab*
- CHEM 104 General Chemistry II
- CHEM 105 General Chemistry II Lab*
- CHEM 232 Elementary Organic Chemistry
- CHEM 233 Elementary Organic Chemistry Lab*
- PHYS 101 College Physics*
- PHYS 102 College Physics*

*Denotes course with laboratory component.

### Education Courses
- CI 401 Intro to Teaching in a Diverse Society
- CI 403 Teaching Diverse High School Students
- CI 404 Teaching and Assessing Sec. Sch. Students
- CI 473 Literacy in Content Areas
- EPSY 201 Educational Psychology
- EPSY 485 Assessing Student Performance
- EDUC 201 Identity and Difference
- EDUC 202 Social Justice and Education
- EDPR 442 Ed Prac in Secondary Education
- SPED 405 Gen Educator’s Role in SPED

### Additional Requirements
- Select one:
  - GEOL 100 Planet Earth
  - GEOL 107 Physical Geology
- Select one:
  - ASTR 100 Introduction to Astronomy
  - ASTR 210 Introduction to Astrophysics
- Select one:
  - EPSY 480 Elements of Statistics
  - STAT 100 Statistics
- At least 8 hours of IB/MCB advanced coursework
  (300- or 400-level)

**NOTE:** Prior to applying to the Secondary Education Minor, the student must complete:
- MATH 220 OR 221
- CHEM 102, 103, 104, 105, 232, and 233
- IB 150; MCB 150
- at least one required 200-level IB course and one required 200-level MCB course.

Earn at least 50 hours of educational or service experience in a Middle or High School Setting.

Pass the TAP or qualify for exemption from the TAP. (See reverse.)
## Recommended 10 Semester Plan: Secondary Science Teaching (Biology Major)
(for students completing the degree in spring 2018 or later)

### YEAR 1: Fall
- MCB 150 (OR IB 150) 4
- CHEM 102/103 4
- RHET 105 4
- EDUC 201 (Fall only) 3

**TOTAL:** 15 hours

### YEAR 1: Spring
- MCB 150 (OR IB 150) 4
- CHEM 104/105 4
- PSYC 100 4
- MATH 220 or 221 4-5

**TOTAL:** 16-17 hours

### YEAR 2: Fall
- IB 203 (Advanced Composition) 4
- IB 204 4
- CHEM 232/233 6
- Gen. Ed. or Language 3-4

**TOTAL:** 14 hours

### YEAR 2: Spring
- IB 202 4
- ASTR 100 3
- EDUC 202 (spring only) 3
- Gen. Ed. or Language 3-4

**TOTAL:** 10 hours

### YEAR 3: Fall
- MCB 250/251 5
- EPSY 201 3
- STAT 100 3

**TOTAL:** 14 hours

### YEAR 3: Spring
- MCB 252/253 5
- PHYS 101 5
- GEOL 100 or 107 4

**TOTAL:** 17 hours

### YEAR 4: Fall
- Adv. MCB or IB (need 8 adv hours) 4
- PHYS 102 5
- ELECTIVE 3

**TOTAL:** 12 hours

### YEAR 4: Spring
- CI 401* 3
- CI 473* 3
- IB 302 4
- Elective 3

**TOTAL:** 13 hours

### YEAR 5: Fall
- CI 403* 3
- EPSY 485* 2
- SPED 405* 3
- Adv. MCB or IB (need 8 adv hours) 4-5

**TOTAL:** 15-16 hours

### YEAR 5: Spring
- CI 404 (Student Teaching) 3
- EDP 442 12

**TOTAL:** 15 hours

*Secondary Education minor courses must be taken in the semester designated.

This sample plan applies to students entering U of I freshman year with no AP or other college credit. Course plan will vary by student. Work with your departmental advisor to determine your plan.

(Rev. 1/17)