



Department of Biochemistry  
SCHOOL OF MOLECULAR & CELLULAR BIOLOGY

## Biochemistry Course Sequences

This plan is a guide. Many factors may affect the sequence and timing of courses. Students should check the [Course Explorer](#) for prerequisites. Course selections are best made in consultation with an advisor. [Schedule an appointment online](#) at [go.mcb.illinois.edu/biocadvising](http://go.mcb.illinois.edu/biocadvising) or contact advising at 217-244-6601 or [biocug@mcb.illinois.edu](mailto:biocug@mcb.illinois.edu).

**Minimum GPA required:** Biochemistry students are required to maintain a major GPA of 2.50 or better and a cumulative GPA of 2.00 or better.

**Minimum hours required for graduation:** 120

**Distinction:** To be considered for graduation & distinction, a student must earn a minimum GPA of 3.25, have at least 6 hours of research (including at least 4 hours of BIOC 492), and submit a thesis for approval by the Biochemistry Awards Committee.

## FOUNDATION

### CHEMISTRY: 17 HOURS

1. General: 102 (3), 103 (1), 104 (3), 105 (1); or accelerated sequence: 202, 203, 204, 205
2. Organic: 232 (4), 233 (2), and 332 (3); or accelerated sequence: 236, 237 & 436

### MATHEMATICS (Calculus I, II, III, Biostatistics): 15 HOURS

MATH 220 (5), 231 (3), 241 (4) & STAT 212 (3)

### MOLECULAR & CELLULAR BIOLOGY: 17 HOURS

MCB 150 (4), MCB 250 and 251 (5), MCB 252 and 253 (5), and MCB 354 (3)

### PHYSICS: 10 HOURS

PHYS 101 (5), 102 (5); or accelerated sequence: 211 Mechanics (4), 212 Elect & Mag (4), 213 Thermal (2)

## CORE

### PHYSICAL (BIO) CHEMISTRY: 7 HOURS

MCB 493 (PBC) (4) and BIOC 446 (3)

### BIOCHEMISTRY: 14 HOURS

BIOC 190 for freshman (1), BIOC/MCB 406 (3), BIOC 455 (4), BIOC 460 (3), BIOP 401 (3)

## **ADVANCED TECHNICAL ELECTIVES (see dept for list): MINIMUM 10 HOURS**

Can use up to 7 hours of senior research (BIOC 492) toward 10 hours of advanced technical electives. BIOC 492 is strongly recommended and can use up to 10 hours toward 120 hours to graduate.

Note: Registration in BIOC 290 (lab, precursor to BIOC 492) is optional but strongly recommended, particularly by the end of third year and can use up to 10 hours toward 120 hours to graduate.

## **TOTAL HOURS IN MAJOR: 90**

## **CAMPUS REQUIREMENTS**

### **COMPOSITION I: 4 HOURS**

### **FOREIGN LANGUAGE (3rd level college or 3 years high school): 0-12 HOURS**

### **ADVANCED COMPOSITION - BIOC 460 (3) Required, embedded in major: 3 HOURS**

### **CULTURAL STUDIES: MINIMUM 9 HOURS**

1. Non-Western (3)
2. U.S. Minority (3)
3. Western or Comparative (3)

### **GENERAL EDUCATION: MINIMUM 12 HOURS**

(Double dipping allowed with Cultural Studies.)

1. Social or Behavioral Sciences (6)
2. Humanities or Arts (6)
3. Science (embedded in major)

### **ELECTIVES/MINOR(S)**