

# Biochemistry Typical Four-year Plan

## SCHOOL OF MOLECULAR & CELLULAR BIOLOGY

## Biochemistry Specialized Curriculum



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Revised Oct. 2023

### FIRST YEAR

#### Fall Semester

COURSE	OFFERED	NOTE
CHEM 102 & 103 (4 hrs)	FA, SP, SU	or CHEM 202 & 203 (5hrs; FA)
MCB 150 (4 hrs)	FA, SP, SU	
RHET 105 (4 hrs)	FA, SP, SU	Placement exam
BIOC 190 (1 hr)	FA	
LAS 101 (1 hr)	FA	

#### Spring Semester

COURSE	OFFERED	NOTE
CHEM 104 & 105 (4 hrs)	FA, SP, SU	or CHEM 204 & 205 (5hrs; SP)
MATH 220 (5 hrs)	FA, SP, SU	ALEKS test
Language (4 hrs)		
Gen. Ed. (3 hrs)		

### SECOND YEAR

#### Fall Semester

COURSE	OFFERED	NOTE
CHEM 232 & 233 (6 hrs)	FA, SP, SU	or CHEM 236 & 237 (6hrs; FA, SP)
MCB 250 & 251 (5 hrs)	FA, SP, SU	Prereq. MCB 150, CHEM 102 & 104
MATH 231 (3 hrs)	FA, SP, SU	Prereq. MATH 220
Gen. Ed (3 hrs)		

#### Spring Semester

COURSE	OFFERED	NOTE
CHEM 332 (4 hrs)	FA, SP, SU	or CHEM 436 (3 hrs; SP)
MCB 252 & 253 (5 hrs)	FA, SP, SU	Prereq. MCB 250
MATH 241 (4 hrs)	FA, SP, SU	Prereq. MATH 231
PHYS 101 (5 hrs)	FA, SP, SU	or PHYS 211 (4 hrs; Prereq. MATH 231)

### THIRD YEAR

#### Fall Semester

COURSE	OFFERED	NOTE
MCB 354 (3 hrs)	FA, SP	Prereq. CHEM 232 or 236, MCB 250 & 252
PHYS 102 (5 hrs)	FA, SP, SU	or PHYS 212 & 213 (6 hrs; prereq. PHYS 211 & MATH 241)
STAT 212 (3 hrs)	FA, SP	
BIOC 290 (1-3 hrs)	FA, SP, SU	Dept. approval

#### Spring Semester

COURSE	OFFERED	NOTE
BIOC 406 (3 hrs)	SP	Prereq. MCB 354
BIOC 455 (4 hrs)	SP	Prereq. MCB 251 & 354, CHEM 232 or 236
BIOC 290 (1-3 hrs)	FA, SP, SU	Dept. approval
Adv. Tech. Electives (3-6 hrs)	FA, SP, SU	See course prereq.
Gen. Ed./Electives (3-6 hrs)		Possible study abroad in Stockholm, Sweden.

### FOURTH YEAR

#### Fall Semester

COURSE	OFFERED	NOTE
MCB 493-PBC (4 hrs)	FA	Prereq. CHEM 104 or 204, PHYS 102 or 212, MATH 231
BIOC 460 (3 hrs)	FA	Prereq. MCB 354 & BIOC 455
BIOP 401 (3 hrs)	FA	Prereq. MCB 354
BIOC 492* (3-4 hrs)	FA, SP, SU	Prereq. MCB 354 & BIOC 455

#### Spring Semester

COURSE	OFFERED	NOTE
BIOC 446 (3 hrs)	SP	Prereq. MCB 493-PBC & MCB 354
Adv. Tech. Electives (3-6 hrs)	FA, SP, SU	See course prereq.
BIOC 492* (3-4 hrs)	FA, SP, SU	Prereq. MCB 354 & BIOC 455

\* Can use up to 7 hours of senior research (BIOC 492) towards 10 hours of advanced technical electives. BIOC 492 is strongly recommended and can use up to 10 hours towards 120 hours to graduate.  
Note: Registration in BIOC 290 (lab, precursor to BIOC 492) is optional but strongly recommended, particularly by end of third year, and can use up to 10 hours to graduate.