

BIOCHEMISTRY MAJOR

Plan of Study

Course	Title	Credits
First Year		
Fall		
BIOL 1171 & 1171L	General Biology I and General Biology I Lab	4
CHEM 1171 & 1171L	General Chemistry I and General Chemistry I Lab	4
MATH 1141 or MATH 1171	Calculus I for Chemistry, Engineering, and Physics Majors or Calculus I	4
Core Courses		6
Credits		18
Spring		
BIOL 1172 & 1172L	General Biology II and General Biology II Lab	4
CHEM 1172 & 1172L	General Chemistry II and General Chemistry II Lab	4
MATH 1142 or MATH 1172	Calculus II for Chemistry, Engineering, and Physics Majors or Calculus II	4
Core Courses		6
Credits		18
Second Year		
Fall		
BIOL 1173 & 1173L	General Biology III and General Biology III Lab	4
CHEM 2271 & 2271L	Organic Chemistry I and Organic Chemistry I Lab	4
PHYS 1171 & 1171L	General Physics I and General Physics I Lab	4
Select one of the following:		3-4
MATH 2217	Statistics I	
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	
MATH 2273	Multivariable Calculus	
Core Courses and Electives		3
Credits		18-19
Spring		
CHEM 2272 & 2272L	Organic Chemistry II and Organic Chemistry II Lab	4
CHEM 2282 & 2282L	Chemical Analysis and Chemical Analysis Lab	4
PHYS 1172 & 1172L	General Physics II and General Physics II Lab	4
Core Courses and Electives		6
Credits		18
Third Year		
Fall		
CHEM 3361 & 3361L	Physical Chemistry I and Physical Chemistry I Lab	4

Core Courses and Electives		9
Credits		13
Spring		
CHEM 3323L or BIOL 3323L	Biochemistry Lab ¹ or Biochemistry Lab	1
CHEM 3324 or BIOL 3324	Biochemistry I or Biochemistry I	3
CHEM 3362 & 3362L	Physical Chemistry II and Physical Chemistry II Lab	4
Biology Elective		3-4
Core Courses and Electives		9
Credits		20-21
Fourth Year		
Fall		
CHEM 3323L or BIOL 3323L	Biochemistry Lab ¹ or Biochemistry Lab	1
CHEM 3325 or BIOL 3325	Biochemistry II or Biochemistry II	3
Chemistry Elective		3-5
Core Courses and Electives		6-9
Credits		13-18
Spring		
Chemistry Elective		3
Core Courses and Electives		9
Credits		12
Total Credits		130-137

¹ Biochemistry Lab is taken only once, concurrently with CHEM 3324 / BIOL 3324 or CHEM 3325 / BIOL 3325.

Students are encouraged to meet with their academic advisors in the Department to discuss variations of the recommended Plan of Study, for example to pursue study abroad and/or research opportunities.