

Sample Program Plan

Chemistry-Biochemistry Degree

Biochemistry Pathway

(Non-Calculus-Ready)

05/2022

<i>Freshman Year</i>								
Fall			Winter			Spring		
CHEM 204/204L General Chemistry [1]	5		CHEM 205/205L Gen. Chemistry	5		CHEM 206/206L General Chemistry	5	
BIOL211/211L Principles of Biology	5		BIOL 212/212L Prin. of Biology	5		BIOL 213/213L Principles of Biology	5	
MATH 111 College Algebra	4		MATH 112 Pre-Calculus	4		CHEM 285 Chemical Safety	1	
Total Credits		14	Total Credits		14	Total Credits		11
<i>Sophomore Year</i>								
Fall			Winter			Spring		
CHEM 334 Organic Chemistry I	4		CHEM 335 Organic Chemistry II	4		CHEM 336 Organic Chemistry III	4	
MATH 251 Calculus	4		CHEM 338 Org. Chemistry I Lab	1		CHEM 339 Organic Chemistry II Lab	1	
CHEM 401 Research	1		MATH 252 Calculus	4				
Total Credits		9	Total Credits		9	Total Credits		5
<i>Junior Year</i>								
Fall			Winter			Spring		
PHYS 201/201L General Physics [2]	5		PHYS 202/202L General Physics	5		PHYS 203/203L General Physics	5	
BIOL 341/341L Genetics	4		BIOL 342/342L Genetics	4		CHEM 340 Physical Chemistry	4	
CHEM 450 Structural Biochemistry	4		CHEM 451 Meta. Biochemistry	4				
CHEM 454 Biochemistry Lab	2							
Total Credits		15	Total Credits		13	Total Credits		9
<i>Senior Year</i>								
Fall			Winter			Spring		
BIOL 431 Cell Structure and Function	5		CHEM 421 Instrumental Analysis	3		CHEM 408 Seminar (Capstone)	1	
CHEM 320 Analytical Chemistry	3		CHEM 422 Instrumental Analysis Lab	2				
CHEM 321 Analytical Chemistry Lab	2		CHEM 407 Seminar	1				
CHEM 406 Seminar	1							
Total Credits		11	Total Credits		6	Total Credits		1

[1] Students not meeting admissions requirements to CHEM 204, 205, & 206 should enroll in CHEM 101, 102, & 103

[2] PHYS 201-203 OR PHYS 221-223