

B.S. Biochemistry Curriculum

Freshman Year									
First Semester				Credits	Second Semester				Credits
BIO	121	Biology of Organisms I	3	BIO	122	Biology of Organisms II	3		
BIO	131	Bio of Organisms Lab I	1	BIO	132	Bio of Organisms Lab II	1		
CAS	101	Intro to Arts & Sci	1	CHM	156	Modern Chemical Principles II	3		
CHM	155	Modern Chemical Principles I	3	CHM	164	Intro to Chemistry Lab II	1		
CHM	163	Intro to Chemistry Lab I	1	CHM	170	Descriptive Inorganic Chemistry			
ENL	101	Critical Writ & Read I	3	<i>OR</i>			3		
				<i>ENL</i>	<i>102</i>	<i>Critical Writ & Read II</i>			
MTH	151	Calculus I	4	MTH	152	Calculus II	4		
16				15					
Sophomore Year									
First Semester				Credits	Second Semester				Credits
CHM	204	Intro to Analytical Chem	3	BIO	234	Cell Biology	3		
				BIO	236	Cells and Genetic Lab	1		
				CHM	252	Organic Chemistry II	3		
CHM	251	Organic Chemistry I	3	CHM	266	Organic Chemistry Lab II	2		
CHM	265	Organic Chemistry Lab I	2	ENL	102	<i>OR CHM 170</i>	3		
MTH	211	Anal Geom & Calculus III	4	PHY	114	Classical Physics II	4		
PHY	113	Classical Physics I	4	University Studies/Humanity/Social Sci (summer*)					
16				16					
Junior Year									
First Semester				Credits	Second Semester				Credits
CHM	305	Modern Methods of Chem Anal	3	BIO	300+	Biology Elective*	3		
CHM	307	Procedures of Chem Anal	2	CHM	316	Physical Chemistry II	4		
CHM	315	Physical Chemistry I	4	CHM	412	Biochemistry II	3		
CHM	411	Biochemistry I	3	CHM	414	Biochemistry Lab	3		
University Studies/Humanity/Social Sci*			3 – 6	CHM	416	Bioinformatics	1		
<i>*one course in the previous summer if possible</i>				ENL	200+	Literature	3		
15 - 18				17					
Senior Year									
First Semester				Credits	Second Semester				Credits
CHM	401	Chemistry Seminar	0.5						
CHM	400+	Chemistry Elective	3	CHM	402	Chemistry Seminar	0.5		
BIO	300+	Biology Elective	3	CHM	499	Capstone in Chemistry	4		
ENL	200+	Literature	3	CHM	529	Physical Biochemistry	3		
University Studies/Humanity/Social Sci			6	University Studies/Humanity/Social Sci			6		
15.5				13.5					

*BIO 235 Genetics can substitute for one of the BIO 300+ electives.

Revised 4/2020