

Biochemistry Major

B.S. in Biochemistry Curriculum Map 2016-2017 Catalog

Print PDF Curriculum Map

Freshman			
Fall	Cr.	Spring	Cr.
CH 103 General Chemistry I (General Education Lab Science)	4	CH 104 General Chemistry II (General Education Lab Science)	4
MA 107 Precalculus Mathematics ¹	4-3	MA 121 Calculus I (General Education Math)	4
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
BI 101 Principles of Biology I	4	BI 102 Principles of Biology II	4
Semester Total Credits	15-14	Semester Total Credits	15
Sophomore			
Fall	Cr.	Spring	Cr.
CH 225 Organic Chemistry I	4	CH 226 Organic Chemistry II	4
PS 201 General Physics I ²	4	PS 202 General Physics II ²	4
BI 202 Genetics	4	MA 122 Calculus II (General Education Math)	4
EN 201 World Literature I (General Education Literature) ³	3	EN 202 World Literature II (General Education Literature) ³	3
CH 214 Communication in Chemistry (or in 3rd year)	1-0		
Semester Total Credits	16-15	Semester Total Credits	15
Junior			
Fall	Cr.	Spring	Cr.
CH 204 Quantitative Analysis (or Free Elective)	4	CH 314 Instrumental Methods (or Free Elective)	3
CH 214 Communication in Chemistry (or in 2nd year)	0-1	CH 315 Analysis Laboratory (taken with CH 314)	1-0
CH 327 Physical Chemistry I (or Free Elective)	3	CH 328 Physical Chemistry II (or Free Elective)	3
CH 324 Biochemistry I	4	BI 306 Cell Biology (or CH 325 Biochemistry II)	4
History (General Education)	3	Social Science (General Education)	3
Free Elective (or BI 304 Physiology)	3		
Semester Total Credits	17-18	Semester Total Credits	14-13
Senior			
Fall	Cr.	Spring	Cr.
CH 413 Chemistry Seminar (Capstone)	1	CH 422 Chemical Synthesis and Examination II (Capstone)	3
BI 304 Physiology (or Free Elective)	4-3	CH 325 Biochemistry II or BI 306 Cell Biology	4
Arts & Humanities (General Education)	3	Free Elective (or CH 314 / CH 315 Instrumental Analysis)	3-4
PH Ethics (General Education)	3	Free Elective (or CH 328 Physical Chemistry II)	3
Free Elective (or CH 204 Quantitative Analysis)	3-4		
Free Elective (or CH 327 Physical Chemistry I)	3		
Semester Total Credits	17	Semester Total Credits	13-14
Total Credits For This Major: 122-121			

1 MA 107 can be substituted with a Free Elective credit if Math Placement Test places a student into MA 121

2 PS 211 - PS 212 may be substituted for PS 201 - PS 202

3 EN 112 or EN 204 may be substituted for one semester of EN 201 - EN 202.