

B.S. Biochemistry Pre-Med Curriculum - 2021

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	Applied Chem Lab II		1
CHM	163	Applied Chem Lab I		1	CHM	170	Descriptive Inorganic Chemistr		1
ENL	101	Critical Writ & Read I		3	ENL	102	Critical Writ & Read II		3
MTH	151	Calculus I		4	MTH	152	Calculus II		4
				16					16
Sophomore Year									
First Semester				Credits	Second Semester				Credits
CHM	204	Intro to Analytical Chem		3	BIO	234	Cell Biology		3
CHM	251	Organic Chemistry I		3	CHM	252	Organic Chemistry II		3
CHM	265	Organic Chemistry Lab I		2	CHM	266	Organic Chemistry Lab II		2
MTH	211	Calculus III		4	BIO	236	Cells and Genetics Lab		1
PHY	113	Classical Physics I		4	PHY	114	Classical Physics II		4
				16	SOC	101	Intro to Sociology		3
				16					16
Junior Year									
First Semester				Credits	Second Semester				Credits
CHM	305	Methods of Chem Anal		3	BIO	235	Genetics		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
PSY	101	General Psychology		3	CHM	416	Bioinformatics		1
				15					14
Senior Year									
First Semester				Credits	Second Semester				Credits
CHM	401	Chemistry Seminar		0.5	ENL	200	Literature		3
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					16.5

Red indicates that the course is either required or recommended by UMass or Harvard Medical School. All such requirements are met in the schedule presented.

English, humanities and social science courses can be taken in the summer to free up time for more science electives senior year, if desired.