



Biochemistry Major – B.S.

First Year

<u>Fall</u>			<u>Spring</u>		
		Credits			Credits
CHEM 121	Chemical Principles I/Lab	4	CHEM 122	Chemical Principles I/Lab	4
MATH 121	Calculus I	3	MATH 122	Calculus II	3
BCHM 192	Freshman Biochem. Seminar	0	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing, <u>G.E.</u>	3	CORE 113	First Year Seminar, <u>G.E.</u>	3
BIOL 110	Intro to Biology I/Lab	4	RLST 105	Francis & Glob. Iss., <u>G.E.</u>	3
Soc Sci 1st	Social Science (1 of 3), <u>G.E.</u>	3	CORE 104	Spring Comm. Enrich., <u>G.E.</u>	<u>0</u>
CORE 103	Fall Comm. Enrich., <u>G.E.</u>	<u>0</u>			17
		17			

Second Year

<u>Fall</u>			<u>Spring</u>		
		Credits			Credits
CHEM 221	Organic Chemistry I/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
PHYS 122	General Physics II/Lab	4	Soc Sci 2 nd	Social Science (2 of 3), <u>G.E.</u>	3
LIT XXX	Literature, <u>G.E.</u>	3	BCHM 292	Soph. Biochem. Seminar	0
BIOL 111	Intro to Biology II/Lab	4	BIOL 401	Cell & Mol. Biol./Lab	4
		<u>15</u>	PHIL 205	Reason & Respons., <u>G.E.</u>	3
			HIST XXX	History, <u>G.E.</u>	3
					17

Third Year

<u>Fall</u>			<u>Spring</u>		
		Credits			Credits
CHEM 321	Physical Chemistry I/Lab	4	BCHM 302	Phys. Inorg. Chem./Lab	4
BCHM 405	Biochemistry I/Lab	4	BCHM 407	Biochemistry II	3
BCHM XXX	Biochemistry Elective	3	BCHM 408	Biochemistry II Lab	2
RLST or PHIL	Ethics Course, <u>G.E.</u>	3	BCHM Stat	BCHM statistics/Lab	3-4
Diversity	Diversity Elective, <u>G.E.</u>	3	Soc Sci 3 rd	Social Science (3 of 3), <u>G.E.</u>	3
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	<u>0</u>	BCHM 392	Junior Biochem. Seminar	<u>0</u>
		17			15-16

Fourth Year

<u>Fall</u>			<u>Spring</u>		
		Credits			Credits
BCHM XXX	Biochemistry Elective	3	BCHM Keystone Seminar		3-4
LANG XXX	Language, <u>G.E.</u>	3	BCHM XXX	Biochemistry Elective	3
XXX	Elective	3	BIOL 301	Genetics/Lab	4
XXX	Elective	3	FNAR XXX	Fine Arts, <u>G.E.</u>	3
XXX	Elective*	<u>3</u>	XXX	Elective	<u>3</u>
		15			16-17

Biochemistry Statistics Electives (3 or more credits)

BIOL 315	Biostatistics/Lab	4	or	CHEM 251	Quantitative Analysis/Lab	3
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Biochemistry Electives (9 or more credits; previous Biochemistry elective courses do not count)

BCHM 398/399	Biochem. Internship	3-15	BIOL 305	Immunology	3
BCHM 402	Biophysics	3	BIOL 315	Biostatistics/Lab	4
BCHM 410	Special Topics-Biochem.	3	BIOL 402	Evolution	3
BCHM 499	Undergraduate Research	1-4	CHEM 251	Quantitative Analysis/Lab	3
BCHM 501	Independent Study in Biochem.	1-8	CHEM 322	Physical Chemistry II/Lab	4
BIOL 251	Bioinformatics	3	CHEM 323	Instrumental Analysis/Lab	3
BIOL 302	Gen. Microbiology/Lab	4	CHEM 324	Inorganic Chemistry/Lab	4

Biochemistry Keystone Seminar (3 or more credits)

CHEM 457	Chemistry and Society (3)	or	CORE 407	Keystone Sem., <u>G.E.</u> (3) and BCHM 492	Biochem Sem.(1)
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American Chemical Society Certified Degree (credits may be used for Biochemistry electives)

Required courses: CHEM 121, CHEM 122, CHEM 221, CHEM 222, CHEM 251, CHEM 321, CHEM 322, CHEM 323, CHEM 324, BCHM 405, BCHM 407, BCHM 492, and BCHM 398-399 or BCHM 499

3 additional credits: CHEM 305, CHEM 308, CHEM 401, CHEM 404, CHEM 410

*if required. A minimum of 128 credits are required for graduation.