



Biochemistry Major – B.S.

First Year

<u>Fall</u>			<u>Spring</u>		
		Credits			Credits
BCHM 192	Freshman Biochem. Seminar	0	CHEM 122	General Chemistry I/Lab	4
BIOL 110	Evol., Ecol., Plant/Lab	4	CORE 104	Spring Comm. Enrich.	0
CHEM 121	Gen. Chem. I/Lab	4	CORE 1	Building a Foundation	3
CORE 103	Fall Comm. Enrich.	0	THEO 105	Francis & Glob. Iss.	3
HIST	History	3	MATH 122	Calculus II	3
MATH 121	Calculus I	3	PHYS 121	General Physics I/Lab	4
WRIT 102	Research Writing	3			17
		17			

Second Year

<u>Fall</u>			<u>Spring</u>		
BIOL 111	Molec, Cells, Anim./Lab	4	BCHM 292	Soph. Biochem. Seminar	0
CHEM 221	Organic Chemistry I/Lab	4	BIOL 301	Genetics/Lab	4
LIT	Literature	3	CHEM 222	Organic Chemistry II/Lab	4
PHYS 122	General Physics II/Lab	4	CORE II	Civic Responsibility	3
		15	Soc Sci	Social Science	3
			PHIL	Philosophy	3
					17

Third Year

<u>Fall</u>			<u>Spring</u>		
BCHM 405	Biochemistry I/Lab	4	BCHM 302	Phys. Inorg. Chem./Lab	4
BCHM	Biochemistry Elective	3	BCHM 392	Jr. Biochem. Seminar	0
CHEM 321	Physical Chemistry I/Lab	4	BCHM 407	Biochemistry II	3
LANG	Language & Culture	3	BCHM 408	Biochemistry II Lab	2
XXX	Elective	3	BCHM Stat	BCHM statistics/Lab	3-4
		17	XXX	Elective	3
					15-16

Fourth Year

<u>Fall</u>			<u>Spring</u>		
BCHM	Biochemistry Elective	3	Apply Ln	Applied Learning	1
BIOL 401	Cell & Mol. Biol./Lab	4	BCHM Keystone Seminar		3-4
Ethics	Ethics	3	BCHM	Biochemistry Elective	3
XXX	Elective	3	FNAR	Fine Arts	3
XXX	Elective*	3	XXX	Elective	3
		16	XXX	Elective	3
					16-17

Biochemistry Statistics Electives (3 or more credits)

BIOL 315	Biostatistics/Lab	4	or	CHEM 251	Quantitative Analysis/Lab	3
----------	-------------------	---	----	----------	---------------------------	---

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 III (3)	and	BCHM 492	Biochem Sem.(1)
----------	---------------------------	----	--------------	-----	----------	-----------------

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