



Biochemistry Major – B.S. Pre-Medicine concentration

First Year

<u>Fall</u>		<u>Credits</u>	<u>Spring</u>		<u>Credits</u>
BCHM 192	Freshman Biochem. Seminar	0	CHEM 122	General Chemistry I/Lab	4
BIOL 110	Evol., Ecol., Plant/Lab	4	CORE 1	Building a Foundation	3
CHEM 121	Gen. Chem. I/Lab	4	CORE 104	Spring Comm. Enrich.	0
CORE 103	Fall Comm. Enrich.	0	THEO 105	Francis & Glob. Iss.	3
MATH 121	Calculus I	3	MATH 122	Calculus II	3
WRIT 102	Research Writing	3	PHYS 121	General Physics I/Lab	4
		14			17

Second Year

<u>Fall</u>			<u>Spring</u>		
BIOL 111	Molec, Cells, Anim./Lab	4	BCHM Stat	BCHM statistics/Lab	3-4
CHEM 221	Organic Chemistry I/Lab	4	BCHM 292	Soph. Biochem. Seminar	0
LIT	Literature	3	BIOL 301	Genetics/Lab	4
PHYS 122	General Physics II/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
		15	PHIL	Philosophy	3
					14-15

Third Year

<u>Fall</u>			<u>Spring</u>		
BCHM 405	Biochemistry I/Lab	4	BCHM 407	Biochemistry II	3
BCHM	Biochemistry elective	3	BCHM 408	Biochemistry II Lab	2
BIOL 211	Comp. Vert. Anatomy/Lab	4	BIOL 406	Vert. Physiology/Lab	4
CORE II	Civic Responsibility	3	Ethics	Ethics	3
HIST	History	3	LANG	Language & Culture	3
PMED 331	Junior PreMed Seminar	0	XXX	Elective	3
		17			18

Fourth Year

<u>Fall</u>			<u>Spring</u>		
BIOL 401	Cell & Mol Biol/Lab	4	Apply Ln	Applied Learning	1
CHEM 321	Physical Chemistry I/Lab	4	BCHM Keystone Seminar		3-4
FNAR	Fine Arts	3	BCHM 302	Phys. Inorg. Chem./Lab	4
XXX	Elective	3	Soc Sci	Social Science	3
XXX	Elective*	3	XXX	Elective	3
		17	XXX	Elective	3
					17-18

Biochemistry Statistics Electives (3 or more credits)

BIOL 315	Biostatistics/Lab	4	MATH 215	Introductory Statistics	3
CHEM 251	Quantitative Analysis/Lab	3	STAT 205	Essentials of Statistics	3

Biochemistry Electives (3 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 4 credits)

CHEM 457 Chemistry and Society (3) or CORE III (3) and BCHM 492 Biochem Sem.(1)

Note: The following CORE General Education requirements are suggested before the end of the 3rd year:

<u>CORE 6</u>	<u>CORE 5</u>
PSYC 101 Intro to Psych	HIST 245 History of Medicine
SOC 101 General Sociology	

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