



Biochemistry Major – B.S. Pre-Medicine concentration

First Year

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

Second Year

<u>Fall</u>			<u>Spring</u>		
BIOL 111	Molec, Cells, Anim./Lab	4	BIOL 301	Genetics/Lab	4
CHEM 221	Organic Chemistry I/Lab	4	CHEM 222	Organic Chemistry II/Lab	4
PHYS 122	General Physics II/Lab	4	BCHM Stat	BCHM statistics/Lab	3-4
LIT XXX	Literature, <u>G.E.</u>	3	BCHM 292	Soph. Biochem. Seminar	0
		<u>15</u>	PHIL 205	Reason & Respons., <u>G.E.</u>	3
			Soc Sci 2 nd	Social Science (2 of 3), <u>G.E.</u>	3
					<u>17-18</u>

Third Year

<u>Fall</u>			<u>Spring</u>		
BCHM 405	Biochemistry I/Lab	4	BCHM 407	Biochemistry II	3
BCHM XXX	Biochemistry elective	3	BCHM 408	Biochemistry II Lab	2
BIOL 211	Comp. Vert. Anatomy/Lab	4	BIOL 401	Cell & Mol Biol/Lab	4
Diversity	Diversity Elective, <u>G.E.</u>	3	BIOL 406	Vert. Physiology/Lab	4
EXAM 301	Writing Comp. Exam, <u>G.E.</u>	0	PHIL/FTAE	Ethics Course, <u>G.E.</u>	3
HIST XXX	History, <u>G.E.</u>	3			<u>16</u>
PMED 331	Junior PreMed Seminar	0			
		<u>17</u>			

Fourth Year

<u>Fall</u>			<u>Spring</u>		
CHEM 321	Physical Chemistry I/Lab	4	BCHM Keystone Seminar		3-4
FNAR XXX	Fine Arts, <u>G.E.</u>	3	BCHM 302	Phys. Inorg. Chem./Lab	4
LANG XXX	Language, <u>G.E.</u>	3	Soc Sci 3 rd	Social Science (3 of 3) <u>G.E.</u>	3
XXX	Elective	3	XXX	Elective	3
XXX	Elective*	3			<u>13-14</u>
		<u>16</u>			

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 407 Keystone Sem., G.E. (3) and BCHM 492 Biochem Sem.(1)

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

<u>1st & 2nd Social Science</u>	<u>3rd Social Science</u>	<u>available for History</u>	<u>Ethics course</u>
PSYC 101 Intro to Psych	PSYC 209 Developmental Psychology	HIST 245 History of Medicine	PHIL 312 Health Care Ethics
SOC 101 General Sociology	SOC 312 Medical 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