

Suggested Course Sequence for B.S. Degree in Biochemistry

<u>First Semester</u>	<u>14</u>	<u>Second Semester</u>	<u>16</u>
<i>CHEM 113 Concepts in Chem I</i>	4	<i>CHEM 114 Concepts in Chem II</i>	4
MATH 125 Calculus I	3	MATH 126 Calculus II	3
ENGL 101 College Writing	4	HIST 195 History of the Modern Era	3
Fine Arts	3	Health & Wellness	3
		ENGL 121 Humanities Literature	3
<u>Third Semester</u>	<u>15</u>	<u>Fourth Semester</u>	<u>14</u>
<i>BIOL 111 Principles of Biology I</i>	4	MATH 225 Calculus III	3
<i>CHEM 231 Organic Chemistry I</i>	4	<i>CHEM 232 Organic Chemistry II</i>	4
<i>PHYS 131 Physics I</i>	3	<i>PHYS 132 Physics II</i>	3
<i>PHYS 141 Physics I Lab</i>	1	<i>PHYS 142 Physics II Lab</i>	1
Social Science	3	ENGL 202 Research Writing	3
<u>Fifth Semester</u>	<u>16</u>	<u>Sixth Semester</u>	<u>17</u>
<i>BIOC 301 Biochemistry I</i>	3	<i>BIOC 302 Biochemistry II</i>	3
<i>BIOC 311 Biochemistry Lab I</i>	1	<i>BIOC 312 Biochemistry Lab II</i>	1
BIOL 263 Genetics	3	BIOL 250 Principles of Microbiology	3
<i>CHEM 340 Physical Chemistry</i>	3	<i>CHEM 323 Analytical Methods</i>	4
Philosophy/Religious Studies	3	Social Science	3
Social Science	3	Elective	3
<u>Seventh Semester</u>	<u>14</u>	<u>Eighth Semester</u>	<u>14</u>
<i>BIOC 401 Lab Meth Biol & Biotech</i>	3	<i>BIOC 481 Special Topics Biochem</i>	3
<i>BIOC 480 Biochemistry Seminar I</i>	1	<i>BIOC 490 Biochemistry Seminar II</i>	1
BIOC 482 Research in Biochemistry	1	BIOC 482 Research in Biochemistry	1
LBST 499 Synthesis	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3

The sequence for certain courses is inflexible – for example, CHEM 113, 114, 231, and 232 must be completed in the order shown. In addition, these courses must be completed before the BIOC courses can be started. Prerequisites for each course are given in the catalog. Required courses in *italics* are offered only one semester per year (either Fall or Spring); others are offered both semesters, allowing some flexibility in the sequence.

Flexible courses include: ENGL 121, ENGL 202, Philosophy or Religious Studies (1 course), Social Sciences (3 courses), two Controlled Electives (from 300- or 400-level BIOC/BIOL/CHEM courses, COSC110, or MATH 216), and Free Electives (as required to have a total of 120 credits). In this suggested sequence the required flexible courses are taken before the elective courses; variations in the sequence are possible and may be advisable.

Students intending to apply to medical schools are advised to complete BIOL 151, Human Physiology and BIOL 331, Animal Developmental Biology. BIOL 331 can be used as a Controlled Elective.

CHEM 111/112 are acceptable substitutes for CHEM 113/114 for students declaring a Biochemistry major after completion of one or both courses.