

## 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 111 or 113*</i>	4	<i>CHEM 112 or 114</i>	4
<i>BIOL 111 Principles of Biology I</i>	4	MATH 126 Calculus II	3
MATH 125 Calculus I	3	LS History	3
ENGL 101 College Writing	3	LS Wellness	3
		LS Fine Arts	3
<u>Third Semester</u>	<u>14</u>	<u>Fourth Semester</u>	<u>14</u>
<i>CHEM 231 Organic Chemistry I</i>	4	<i>CHEM 232 Organic Chemistry II</i>	4
BIOL 250 Principles of Microbiology	3	BIOL 263 Genetics	3
<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
ENGL 121 Humanities Literature	3	ENGL 202 Research Writing	3
<u>Fifth Semester</u>	<u>14</u>	<u>Sixth Semester</u>	<u>16-17</u>
<i>BIOC 301 Foundations of Biochem</i>	3	<i>BIOC 302 Advanced Biochemistry</i>	3
<i>BIOC 311 Biochemistry Lab I</i>	1	<i>BIOC 312 Biochemistry Lab II</i>	1
<i>CHEM 325 Analytical Chemistry I</i>	4	MATH 225 Calculus III	3
LS Social Science	3	Controlled Elective	3-4
LS Philosophy/Religious Studies	3	LS Social Science	3
		Elective	3
<u>Seventh Semester</u>	<u>15</u>	<u>Eighth Semester</u>	<u>14-15</u>
<i>BIOC 401 Lab Meth Biol &amp; 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
<i>CHEM 341 Physical Chemistry I</i>	4	Controlled Elective	3-4
BIOC 482 Research in Biochemistry	1	BIOC 482 Research in Biochemistry	1
LS Social Science	3	Elective	3
Elective	3	Elective	3

\*Incoming biochemistry majors who place in MATH 125 complete CHEM 113/114. All others complete CHEM 111/112.

The sequence for certain courses is inflexible – 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.

Two Controlled Electives (from 300- or 400-level BIOC/BIOL/CHEM courses, COSC110, or MATH 216), and Free Electives must be chosen to give total of at least 120 credits. Variations in the sequence are possible and may be advisable.

Biochemistry majors intending to apply to medical schools should consult with the College PreMed advisor to select appropriate elective courses.