

# Biochemistry, B.S.

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This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

Course	Title	Hour
<b>Freshman</b>		
<b>Fall</b>		
CHEM 1110	General Chemistry I	4
MATH 1420	Calculus I	4
BIOL 2052	General Biology: Cell Structure and Function	4
UNIFI/General Education or University Electives		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 1120	General Chemistry II	4
MATH 1421	Calculus II	4
UNIFI/General Education or University Electives		6
<b>Hours</b>		<b>14</b>
<b>Sophomore</b>		
<b>Fall</b>		
CHEM 2210	Organic Chemistry I	3
CHEM 2320	Chemical Analysis	3
CHEM 2330	Chemical Analysis Laboratory	2
PHYSICS 1701	Physics I for Science and Engineering	4
UNIFI/General Education or University Electives		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 2010	Chemical Safety Seminar	1
CHEM 2220	Organic Chemistry II	3
CHEM 2230	Organic Chemistry Laboratory	2
PHYSICS 1702	Physics II for Science and Engineering	4
BIOL 3140	Genetics	4
UNIFI/General Education or University Electives		3
<b>Hours</b>		<b>17</b>
<b>Junior</b>		
<b>Fall</b>		
CHEM 2110	Descriptive Inorganic Chemistry	4
CHEM 4420/5420	Physical Chemistry I	3
CHEM 4510/5510	Biochemistry I	3
UNIFI/General Education or University Electives		5
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 4430/5430	Physical Chemistry II	3
CHEM 4520/5520	Biochemistry II	3
CHEM 4530/5530	Biochemistry Laboratory	2
UNIFI/General Education or University Electives		6
<b>Hours</b>		<b>14</b>

## Senior

### Fall

CHEM 4310/5310	Instrumental Analysis	3
CHEM 3600	Undergraduate Research in Chemistry	1
Biol OR Chem 3000/4000 Level Elective		3
UNIFI/General Education or University Electives		8
<b>Hours</b>		<b>15</b>

### Spring

CHEM 3600	Undergraduate Research in Chemistry	1
CHEM 4440/5440	Physical Chemistry Laboratory	2
UNIFI/General Education or University Electives		12
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>120</b>