



## The Bachelor of Arts Degree in Biochemistry (B.A.)

The Bachelor of Arts curriculum is designed for students seeking to enter professional programs such as Medicine, Veterinary Medicine, Optometry, or Pharmacy.

- Chemistry 1610–1620 and Organic Chemistry 2610 – 2620 are the recommended sequences for chemistry and biochemistry majors, although qualified students are urged to take the Honors sequences.
- Chemistry 1612 & 1622 are highly recommended. They provide a structure in which students can work actively in groups of 6 to 8 peers to enhance learning.
- Undergraduate Research (Biochemistry 4998/4999) is strongly recommended as an elective course.

Autumn Semester (Year 1)		Spring Semester (Year 1)	
General Chemistry 1 (1910H, 1610, 1210)	5	General Chemistry 2 (1920H, 1620, 1220)	5
PLTL in Gen Chem (1612)	1	PLTL in Gen Chem (1622)	1
Calculus 1 (Math 1151)	5	Calculus 2 (Math 1152)	5
GE Elective	3	Introductory Biology 1 (Bio 1113)	4
Freshman Survey	1	GE Elective (e.g. <i>English 1110</i> )	3
	<u>16</u>		<u>18</u>

Autumn Semester (Year 2)		Spring Semester (Year 2)	
Organic Chemistry 1 (2910H, 2610, 2510)	4	Organic Chemistry 2 (2920H, 2620, 2520)	4
Organic Chemistry Laboratory 1 (2540)	2	Organic Chemistry Laboratory 2* (2550)	2
GE Elective	3	<b>Biochemistry 1 (5613)</b>	3
GE Elective	3	GE Elective	3
GE Elective (e.g. <i>Foreign Language 1101</i> )	4	GE Elective (e.g. <i>Foreign Language 1102</i> )	4
	<u>16</u>		<u>16</u>

Autumn Semester (Year 3)		Spring Semester (Year 3)	
Introductory Physics 1 (1200 or 1250)	5	Introductory Physics 2 (1201 or 1251)	5
Introductory Biology 2 (Bio 1114)	4	<b>Biochemistry 3 (5615)</b>	3
<b>Biochemistry 2 (5614)</b>	3	Biochemistry Lab (5621)	4
GE Elective (e.g. <i>Foreign Language 1103</i> )	4	GE Elective	3
	<u>16</u>		<u>15</u>

Autumn Semester (Year 4)		Spring Semester (Year 4)	
<b>Physical Biochemistry 1 (5721)</b>	3	Elective or Undergraduate Research (4998)	2-3
Molecular Genetics (MolGen 4500 or 4606)	3-4	Elective	3
GE Elective	3	Elective	3
GE Elective	3	Elective	3
Elective or Undergraduate Research (4998)	1-4	Elective	3
	<u>13-17</u>		<u>14-15</u>

**NOTE:** Classes listed in **BOLD** are only offered in those semesters – Autumn or Spring ONLY as shown.

There is some flexibility in course scheduling– please see an undergraduate Biochemistry advisor for more information.

Total Credit Hour Summary: minimum 31-32 semester hours in the major (121 minimum total semester hours). The Data Analysis GE Elective is covered by taking Math 1152. There are 39 upper division hours required of which 31-32 hours are encompassed in the major.

\* The Organic Lab 2 is not required for the B.A., however, it is commonly used to fulfill the 2 required elective hours.