



The Bachelor of Science Degree in Biochemistry (B.S.)

The Bachelor of Science curriculum is designed for students seeking to become professional biochemists or enter biotechnology fields.

- 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. English 1110)	3
	<hr/> 15		<hr/> 18
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
Calculus 3 (Math 2153)	4	Biochemistry 1 (5613)	3
GE Elective	3	GE Elective	3
GE Elective (e.g. Foreign Language 1101)	4	GE Elective (e.g. Foreign Language 1102)	4
	<hr/> 17		<hr/> 16
Autumn Semester (Year 3)		Spring Semester (Year 3)	
Introductory Physics 1 (1250)	5	Introductory Physics 2 (1251)	5
Introductory Biology 2 (Bio 1114)	4	Biochemistry 3 (5615)	3
Biochemistry 2 (5614)	3	Biochemistry Lab (5621)	4
GE Elective (e.g. Foreign Language 1103)	4	GE Elective	3
	<hr/> 16		<hr/> 15
Autumn Semester (Year 4)		Spring Semester (Year 4)	
Physical Biochemistry 1 (5721)	3	Physical Biochemistry 2 (5722)	3
Molecular Genetics (MolGen 4500 or 4606)	3-4	Elective or Undergraduate Research (4998)	1-3
GE Elective	3	Elective	3
GE Elective	3	Elective	3
Elective or Undergraduate Research (4998)	1-4	Elective	3
	<hr/> 13-17		<hr/> 13-15

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 38-39 semester hours in the major (121 minimum total semester hours).