



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.

- This example curriculum is designed for students who will begin their chemistry sequence courses with Chem 1205.
- This curriculum example does not take into account that some students may have course credit from transfer credit or AP scores and does not take into account any summer courses that students may be available to take.
- Undergraduate Research (Biochemistry 4998/4999) is strongly recommended as an elective course.

Autumn Semester (Year 1)		Spring Semester (Year 1)	
Foundation of General Chemistry (1205)	2	General Chemistry 1 (1210)	5
College Algebra (Math 1148)	4	Trigonometry (Math 1149)	3
GE Course (ex: world language 1101)	4	GE Course (ex: world language 1102)	4
GE Course (ex: social and behavioral science)	3	Introductory Biology 1 (Biol 1113)	4
Freshman Survey (Arts Sci 1100.10)	1		16
Launch Seminar	1		
	<hr/> 15		
Autumn Semester (Year 2)		Spring Semester (Year 2)	
General Chemistry 2 (1220)	5	Organic Chemistry 1 (2510)	4
Calculus 1 (Math 1151)	5	Organic Chemistry Laboratory 1 (2540)	2
Introductory Biology 2 (Biol 1114)	4	Calculus 2 (Math 1152)	5
GE Course (ex: world language 1103)	4	GE Course (ex: race, ethnicity, and gender diversity)	3
	<hr/> 18	GE Course (ex: writing and information literacy)	3
			<hr/> 17
Autumn Semester (Year 3)		Spring Semester (Year 3)	
Introductory Physics 1 (1200 or 1250)	5	Introductory Physics 2 (1201 or 1251)	5
Organic Chemistry 2 (2520)	4	Biochemistry 1 (5613)	3
Organic Chemistry Laboratory 2 (2550)***	2	GE Course (ex: citizenship theme course #2) or Elective	3-4
GE Course (ex: citizenship theme)	3-4	GE Course (ex: second theme)	3-4
	<hr/> 14-15		<hr/> 14-16
Autumn Semester (Year 4)		Spring Semester (Year 4)	
Physical Biochemistry 1 (5721)	3	Biochemistry 3 (5615)	3
Biochemistry 2 (5614)	3	Molecular Genetics (MolGen 4500 or 4606)	3-4
Biochemistry Lab (5621)	4	GE Course (ex: second theme course #2) or Elective	3-4
GE Course (ex: literary, visual, and performing arts)	3	GE Course (ex: hist. and cultural studies)	3
Elective	3	Reflection Seminar (Gen Ed 4001)	1
	<hr/> 16		<hr/> 13-15

Note:

- Classes listed in **BOLD** are only offered in those semesters – Autumn or Spring ONLY, as shown.
- The world language courses are a requirement of the College of Arts and Sciences and students must demonstrate proficiency through the 1103 level in their chosen language.
- Please see degree requirements for further details, including options for each GE course requirement.

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

Total credit hour summary: minimum 31 semester hours in the major (121 minimum total semester hours for the degree), including 2 hours of major electives. ***Chem 2550 is the recommended major elective to complete the minimum 31 semester hours. There are 39 upper division hours required, of which 31-32 hours are encompassed in the major.