



The Bachelor of Arts Degree in Chemistry (B.A.)

The BA curriculum is intended for students who want a background in Chemistry as a basis for future work in other areas of science, such as the life sciences, or in professional areas such as medicine, pharmacy or veterinary science.

- General Chemistry 1610–1620 and Organic Chemistry 2610–2620 are the recommended sequences for chemistry and biochemistry majors, although qualified students are urged to take Honors sequences instead.
- The major is completed with **9 hours of Advanced Science Electives**, which must include at least **3 hours** of upper-level chemistry or biochemistry coursework.

Examples of Advanced Science Electives:

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| • Chem 3510 (Inorganic-3) ^a | • Biochemistry 4511 (4) |
| • Chem or Biochem 4998/4999 (Research) | • Microbiology 4000 (4) |
| • Chem 5230 (Neurotransmitter-3) ^b | • Molecular Genetics 4500 (3) |
| • Chem 5420 (Organic Spectroscopy-1.5) ^b | • Most 2000-4000 level courses in Math |
| • Chem 5430 (Carbohydrates-3) ^b | • Other non-required graded Chem and Biochem 4000-6000 level courses |
| • Chem 5440 (Computational-3) ^a | • Approved 4000-6000 level courses in Microbiology, Molecular Genetics, Physics, Food Science, and EEOB |
| • Chem 5520 (Nanochemistry-3) ^b | |

- Undergraduate Research (Chem or Biochem 4998/4999) is recommended. A maximum of 6 hours of research may be used to fulfill the requirements of the major.

Autumn Semester (Year 1)		Spring Semester (Year 1)	
General Chemistry 1 (1910H^a , 1610^a , 1210)	5	General Chemistry 2 (1920H^b , 1620^b , 1220)	5
PLTL in Gen Chem (1612^a)	1	PLTL in Gen Chem (1622^b)	1
Calculus 1 (Math 1151)	5	Calculus 2 (Math 1152)	5
GE (World Language)	4	GE (World Language)	4
Freshman Survey (ARTSSCI 1100.10^a)	1	Launch Seminar	1
	<hr/> 16		<hr/> 16
Autumn Semester (Year 2)		Spring Semester (Year 2)	
Analytical Chemistry 1 (2210)	5	Organic Chemistry 2 (2920H^b , 2620^b , 2520)	4
Organic Chemistry 1 (2910H^a , 2610^a , 2510)	4	Organic Chemistry Laboratory 2 (2550)	2
Organic Chemistry Laboratory 1 (2540)	2	Physics 2 (1201 or 1251)	5
Physics 1 (1200 or 1250)	5	Biology 1113	4
	<hr/> 16		<hr/> 15
Autumn Semester (Year 3)		Spring Semester (Year 3)	
Physical Chemistry 1 (4200^a)	3	Physical Chemistry 2 (4210^b)	3
Advanced Science Elective	4	Physical Chemistry Laboratory (4410)	3
GE (World Language)	4	Advanced Science Elective	3
GE (Foundations)	3	GE (Foundations)	3
Elective	3	GE (Themes)	4
	<hr/> 17		<hr/> 16
Autumn Semester (Year 4)		Spring Semester (Year 4)	
GE (Foundations)	3	Advanced Science Elective	3
GE (Foundations)	3	GE (Foundations)	3
GE (Themes)	3-4	GE (Themes)	3-4
Elective	3	Elective	3
	<hr/> 12-13	Reflection Seminar	1
			<hr/> 13-14

^aOnly offered in autumn semester (bold)

^bOnly offered in spring semester (bold)