



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

The Bachelor of Arts 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.
- 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.
- The major is completed with **nine (9) hours of advanced science electives**, which must include **at least three (3) hours of upper level chemistry or biochemistry coursework**.

Examples of some approved science electives include:

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

- Undergraduate Research (Chem or Biochem 4998/4999) is recommended. A maximum of six (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, 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	3-4	GE Elective (<i>Biology 1113</i>)	4
Freshman Survey	1	GE Elective	3
	<hr/> 15-16		<hr/> 18
Autumn Semester (Year 2)		Spring Semester (Year 2)	
Analytical Chemistry 1 (2210)	5	Organic Chemistry 2 (2920H, 2620, 2520)	4
Organic Chemistry 1 (2910H, 2610, 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	GE Elective	3
	<hr/> 16		<hr/> 14
Autumn Semester (Year 3)		Spring Semester (Year 3)	
Physical Chemistry 1 (Biochem 5721)	3	Physical Chemistry 2 (Biochem 5722)	3
Advanced Science Elective (Chem/Biochem)	3-4	Physical Chemistry Laboratory (4410)	3
Elective	3	Elective	3
GE Elective	4	GE Elective	4
GE Elective	3	GE Elective	3
	<hr/> 16-17		<hr/> 16
Autumn Semester (Year 4)		Spring Semester (Year 4)	
Advanced Science Elective	3	Advanced Science Elective	3
Elective	3	Elective	3
Elective	3	GE Elective	3
GE Elective	3-4	GE Elective	3
	<hr/> 12-13	GE Elective	<hr/> 3
			15