

## Chemistry

Degrees Offered	BA Chemistry	BS Chemistry	BS Chemistry (Intensive Major)	BS/MS Chemistry
Prerequisites for entering the major	General Chemistry I and II (CHEM 161 and 165 or CHEM 163 and 167 CHEM 134L and 136L)			
	Calculus of Functions of One Variable II (MATH 115) (MATH 120 recommended but not required)			
	Introductory Physics (PHYS 170, 180, 200, or 260) (For BS/MS PHYS 200 or above required)			
Requirements for each degree	10 credits 11 courses	13 credits 14 Courses	15 credits 16 Courses	Intensive + 4 grad courses
	2 Semesters Organic Chemistry (with 2 Labs) CHEM 174 or 220 and CHEM 175, 221, or 230. CHEM 222L and 223L			Application by end of 5th term
	Physical Chemistry (CHEM 332 or 328)	2 Semesters Physical Chemistry (with 1 Lab) (CHEM 332, 333 and 330L)		Physics courses must be 200/201 or 260/261
	Inorganic Chemistry CHEM 252			CHEM 490 in 5th and 6th terms
	N/A		PHYS 171, 181, 201, or 261	Research between Jr/Sr year
	4 Advanced electives At least 1 CHEM lecture and lab	4 Advanced electives At least 1 CHEM lecture and 1 lab	5 Advanced electives At least 2 CHEM lectures and 1 lab	N/A
	Senior Requirements			
Senior Seminar CHEM 400	2 Semesters Research CHEM 490 or CHEM 400 + advanced additional course	2 Semesters Research CHEM 490	4 Semesters Research comprising CHEM 490 in 5th and 6th terms and CHEM 990 in 7th and 8th terms	
Substitutions	Up to 2 relevant advanced science courses in other departments for advanced chem electives			N/A

## Four Possible Paths Through the Major in Chemistry

### Possible BA Sequence

	<i>Fall</i>	<i>Spring</i>
Year 1	CHEM 161, 134L, & MATH pre-req	CHEM 165, 136L, & MATH pre-req
Year 2	CHEM 220, 222L, & PHYS pre-req	CHEM 221, 223L, & 252
Year 3	CHEM 332	Advanced Lab & 1 Elective
Year 4	CHEM 400 & 1 Elective	1 Elective

### Possible BS Sequence

	<i>Fall</i>	<i>Spring</i>
Year 1	CHEM 161, 134L, & MATH pre-req	CHEM 165, 136L, & MATH pre-req
Year 2	CHEM 220, 222L, & Phys pre-req	CHEM 221 & 223L
Year 3	CHEM 332 & 330L	CHEM 333, 252, & Advanced Lab
Year 4	CHEM 490 & 2 Electives	CHEM 490 & 1 Elective

### Possible BS Intensive Sequence

	<i>Fall</i>	<i>Spring</i>
Year 1	CHEM 163, 134L, & MATH pre-req	CHEM 167, 136L, & MATH pre-req
Year 2	CHEM 220, 222L, & PHYS pre-req	CHEM 221, 223L, 252, & PHYS pre-req
Year 3	CHEM 332 & 330L	CHEM 333, Advanced Lab, & 1 Elective
Year 4	CHEM 490 & 2 Electives	CHEM 490 & 1 Elective

### Possible BS/MS Sequence

	<i>Fall</i>	<i>Spring</i>
Year 1	CHEM 174, 222L, MATH & PHYS pre-req	CHEM 175, 223L, MATH & PHYS pre-req
Year 2	CHEM 330L & 332	CHEM 333, 252, & Advanced Lab
Year 3	CHEM 490 & 2 Electives	CHEM 490 & 2 Electives
Year 4	CHEM 990 & 2 Electives	CHEM 990 & 2 Electives