

## Bachelor of Arts in Chemistry Suggested Course Sequence

The sequence below is the recommended sequence for a chemistry major enter Fall 2015 and later.  
Make changes to the sequence only in consultation with an advisor. A BA major has a language requirement.

	Fall	Spring
<b>Freshman</b>	CHEM 121 General Chem I MATH 127 or 131 Calculus I ENGLWRIT 112 College Writing BIOL 151 Intro Biol I + CHEM 196 Ind. Research (optional)	CHEM 122 General Chem II MATH 128 or 132 Calculus II PHYS 131 or 151 General Physics I and Lab GEN ED Diversity (DU/DG) ++ CHEM 196 Ind. Research (optional)
<b>Sophomore</b>	CHEM 265 Organic Chem I CHEM 267 Organic Chem I Lab CHEM 291A Sophomore Seminar PHYS 132 or 152 General Physics II and Lab CHEM 296 Ind. Research (optional)	CHEM 266 Organic Chem II CHEM 268 Organic Chem II Lab CHEM 315 Quantitative Analysis  CHEM 296 Ind. Research (optional)
<b>Junior</b>	CHEM 330 Writing in Chemistry CHEM 341 Inorganic Chem CHEM 471 Elem. Physical Chem Or CHEM 475 Physical Chem I* & CHEM 396 Ind. Research (optional)	Upper-level Courses** CHEM 342 Inorganic Chem Lab  CHEM 476 Physical Chem II* CHEM 396 Ind. Research (optional)
<b>Senior</b>	Upper-level Courses** CHEM 496 Ind. Research (optional)	Upper-level Courses** CHEM 496 Ind. Research (optional)

Upper-level courses					
	Fall	Group A/B		Spring	Group A/B
CHEM 4xx+	Any 400 level chemistry course or above	A	CHEM 4xx+	Any 400 level chemistry course or above	A
CHEM Eng 290A	Intro to Energy Engineering	A/B	CHEM ENG 571	Physical and Chemical Processing of Materials	A
PHYS 531	Electronics for Scientists I w/Lab	A	PHYS 553	Optics with Lab	B
GEOLOGY 311	Mineralogy	B	GEOLOGY 321	Petrology w/lab	B
EDUC 512	Teaching Science in the Middle and High School	B	GEO SCI 519	Aqueous Environmental Geochemistry	B
EnvSci 515	Microbiology of Soil		EDUC 706	Science Teaching Workshop	B
ENVSCI 575	Environmental Chemistry w/lab	B	ENVIRSCI 585	Inorg. Contam. In Soil, Water, and Sediment	
FOOD SCI 542	Food Chemistry 2	B	FOOD SCI 541	Food Chemistry 1	B
FOOD SCI 544	Food Chemistry Lab	B	FOOD SCI 575	Elements of Food Processing Engineering	B
PUBHLTH 420	The DNA Experience	B	FOOD SCI 741	Lipid Chemistry	B
			HIS 397ST	Sci., Tech., and War in 20 <sup>th</sup> cent. US/Eur	B
If double majoring in Biochemistry and Molecular Biology					
BIOCHM 423	General Biochemistry I*	A	BIOCHM 424	General Biochemistry II*	A
BIOCHM 276	Introductory Biochemistry Lab	B	BIOCHM 426	General Biochemistry Lab*	B
			BIOCHM 276	Introductory Biochemistry Lab	B

+ Required for students entering Fall 2015

++ Required for students entering Fall 2018

\* CHEM 475 **and** CHEM 476 must **both** be taken, if substituted for CHEM 471.

\*\* Minimum of 9 credits of upper-level courses required to graduate. At least 2 credits must be taken from both groups A and B.

NOTES: Students interested in chemical physics are encouraged to take Physics 181, 182 and 287.