

Bachelor of Science 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.

	Fall	Spring
Freshman	CHEM 121 General Chem I MATH 131 Calculus I ENGLWRIT 112 College Writing BIOL 151 Intro Biol I + CHEM 196 Independent Research (optional)	CHEM 122 General Chem II MATH 132 Calculus II PHYS 151 General Physics I and Lab GEN ED Diversity (DU/DG) ++ CHEM 196 Independent Research (optional)
Sophomore	CHEM 265 Organic Chem I CHEM 267 Organic Chem I Lab CHEM 291A Sophomore Seminar MATH 233 Multivariate Calculus PHYS 152 General Physics II and Lab CHEM 296 Independent Research (optional)	CHEM 266 Organic Chem II CHEM 268 Organic Chem II Lab CHEM 315 Quantitative Analysis CHEM 296 Independent Research (optional)
Junior	CHEM 330 Writing in Chemistry CHEM 341 Inorganic Chem CHEM 475 Physical Chem I CHEM 477 Physical Chem Lab CHEM 396 Independent Research (optional)	Upper-level Courses* CHEM 342 Inorganic Chem Lab CHEM 476 Physical Chem II CHEM 396 Independent Research (optional) or CHEM 388 Independent Research **
Senior	Upper-level Courses* CHEM 388 Independent Research ** or CHEM 499Y Honors Research/Thesis** & or CHEM 496 Independent Research (optional)	Upper-level Courses* CHEM 499T Honors Research/Thesis** CHEM 496 Independent Research (optional)

Upper-level courses					
	Fall	Group A/B	Spring	Group A/B	
CHEM 396/496	Independent Research	B	CHEM 396/496	Independent Research	B
CHEM 513	Instrumental Analysis	A/B	CHEM 423	Biochemistry for Chemists	A
CHEM 515	Thry Analytical Processes	A	CHEM 585	Advanced Physical II	A
CHEM 546	Advanced Inorganic	A	CHEM 590CB	Chemical Biology	A
CHEM 551	Advanced Organic	A			
CHEM 552	Organic Spectroscopy	A			
CHEM 584	Advanced Physical I	A			
PHYS 531	Electronics for Scientists I w/Lab	B	PHYS 553	Optics with Lab	B
600 and 700 level	Chem courses also accepted	A	PSE 501 600/700 level	Intro to Polymer Science Chem courses also accepted	A
BIOCHEM 423	General Biochemistry I*	A	BIOCHEM 424	General Biochemistry II*	A
If double majoring in Biochemistry and Molecular Biology					
			BIOCHEM 426	General Biochemistry Lab*	B

+ Required for students entering Fall 2015

++ Required for students entering Fall 2018

* Minimum of 12 credits of upper-level courses required to graduate. At least 2 credits must be taken from both groups A and B.

** CHEM 388 and 499Y/T are not intended to be a student's first lab experience.

NOTES:

To satisfy the American Chemical Society certification take CHEM 423 (or BIOCHM 423), plus two additional Group A upper level CHEM electives.

Students interested in chemical physics are encouraged to take Physics 181, 182 and 287 instead of Physics 151 and 152.