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	CHEM 122	General Chem II
	MATH 131	Calculus I	MATH 132	Calculus II
	ENGLWRIT 112	College Writing	PHYS 151	General Physics I and Lab
	BIOL 151	Intro Biol I +	GEN ED	Diversity (DU/DG) ++
	CHEM 196	Independent Research (optional)	CHEM 196	Independent Research (optional)
Sophomore	CHEM 265	Organic Chem I	CHEM 266	Organic Chem II
	CHEM 267	Organic Chem I Lab	CHEM 268	Organic Chem II Lab
	CHEM 291A	Sophomore Seminar	CHEM 315	Quantitative Analysis
	MATH 233	Multivariate Calculus		
	PHYS 152	General Physics II and Lab		
	CHEM 296	Independent Research (optional)	CHEM 296	Independent Research (optional)
Junior	CHEM 330	Writing in Chemistry	Upper-level Courses*	
	CHEM 341	Inorganic Chem	CHEM 342	Inorganic Chem Lab
	CHEM 475	Physical Chem I	CHEM 476	Physical Chem II
	CHEM 477	Physical Chem Lab		
	CHEM 396	Independent Research (optional)	CHEM 396	Independent Research (optional)
			or CHEM 388	Independent Research **
Senior	Upper-level Courses*		Upper-level Courses*	
	CHEM 388	Independent Research **		
	or CHEM 499Y	Honors Research/Thesis** &	CHEM 499T	Honors Research/Thesis**
	or CHEM 496	Independent Research (optional)	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 581	Chemical Biology	A
CHEM 551	Advanced Organic	A	CHEM 560	Materials Chemistry	A
CHEM 552	Organic Spectroscopy	A	CHEM 595	Computational & Mathematical Methods in Chemistry	A
CHEM 584	Advanced Physical I	A			
PHYS 531	Electronics for Scientists I w/Lab	B	PHYS 553	Optics with Lab	B
			PSE 501	Intro to Polymer Science	A
600 and 700 level	Chem courses also accepted	A	600/700 level	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.