

## Bachelor of Science in Chemistry Suggested Course Sequence

	<b>Fall</b>		<b>Spring</b>	
<b>Freshman</b>	CHEM 121 MATH 131 ENGLWRIT 112 BIOL 151 CHEM 196	General Chem I Calculus I College Writing Intro Biol I Independent Research (optional)	CHEM 122 MATH 132 PHYS 151 GEN ED CHEM 196	General Chem II Calculus II General Physics I and Lab Diversity (DU/DG) Independent Research (optional)
<b>Sophomore</b>	CHEM 265 CHEM 267 CHEM 291A MATH 233 PHYS 152 CHEM 296	Organic Chem I Organic Chem I Lab Sophomore Seminar Multivariate Calculus General Physics II and Lab Independent Research (optional)	CHEM 266 CHEM 268 CHEM 315   CHEM 296	Organic Chem II Organic Chem II Lab Quantitative Analysis   Independent Research (optional)
<b>Junior</b>	CHEM 330 CHEM 341 CHEM 475 CHEM 477 CHEM 396	Writing in Chemistry Inorganic Chem Physical Chem I Physical Chem Lab 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 **	
<b>Senior</b>	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)	

<b>Upper-level courses</b>					
	<b>Fall</b>	<b>Group A/B</b>		<b>Spring</b>	<b>Group A/B</b>
CHEM 396/496	Independent Research	B	CHEM 396/496	Independent Research	B
CHEM 513	Instrumental Analysis	A	CHEM 423	Biochemistry for Chemists	A
CHEM 514	Instrumental Analysis Lab	B	CHEM 559	Computational & Mathematical Methods in Chemistry	A
CHEM 546	Advanced Inorganic	A	CHEM 560	Materials Chemistry	A
CHEM 551	Advanced Organic	A	CHEM 581	Chemical Biology	A
CHEM 552	Organic Spectroscopy	A	CHEM 585	Advanced Physical II	A
CHEM 584	Advanced Physical I	A	PHYS 553	Optics with Lab	B
PHYS 531	Electronics for Scientists I w/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
<b>If double majoring in Biochemistry and Molecular Biology</b>					
			BIOCHEM 426	General Biochemistry Lab*	B

\* 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.