

## Bachelor of Science Major in Chemistry (CHEM-BS)

### Suggested Sequence of Chemistry, Math, and Physics Courses:

*Students not placing in Math 118 or higher cannot start the Chemistry sequence until Math 117 is completed with a grade of C- or better. Such students are advised to enroll in first-year Chemistry courses in the summer sessions (after meeting the math requirement) in order to complete the major in four years.*

First Year				
Fall	Chemistry 160		Spring	Chemistry 180
	Chemistry 161			Chemistry 181
	Math 161			Math 162

Sophomore Year				
Fall	Chemistry 240		Spring	Chemistry 260
	Chemistry 242*			Chemistry 272*
	Physics 121			Physics 122
	Physics 111L			Physics 112L
	Statistics 203			

\*Chemistry 242 and 272 can be taken in either semester

Junior Year				
Fall	Chemistry 280		Spring	Chemistry 302
	Chemistry 301			Chemistry 303
	Chemistry 370			Chemistry 314

Senior Year				
Fall	Chemistry 340		Spring	Chemistry 341
	Chemistry Elective*			Chemistry Elective*

### \*Two Chemistry Electives are required:

You can choose from any of these Chemistry Electives:

**CHEM 323, 365, 388, 395, 396**

Chemistry 300 (Undergraduate Research) and Chemistry 380 (Seminar) are strongly recommended and required to receive Departmental Honors with graduation. Credit hours earned in Chemistry 300 and/or Chemistry 380 do not count as elective hours satisfying the CHEM degree requirement. Chemistry 361 does not count towards the CHEM-BS degree.

(This is additional information for the B.S. Major in Chemistry)

### **CHEM-BS Foundational CHEM Classes**

<b>Course #</b>	<b>Course Title</b>	<b>Credits</b>
Chem 160	Chemical Structure and Properties	3
Chem 161	Chemical Structure and Properties Laboratory	1
Chem 180	Chemical Reactivity I	3
Chem 181	Chemical Reactivity I Laboratory	1
Chem 240	Chemical Reactivity II	3
Chem 242	Chemical Synthesis Laboratory	2
Chem 260	Quantitative Methods in Chemistry	3
Chem 272	Analytical Chemistry Laboratory	2
Chem 280	Environmental & Chemical Analysis	3

### **CHEM-BS Advanced CHEM Classes**

Chem 301	Physical Chemistry I (Chem Majors only)	3
Chem 302	Physical Chemistry II (Chem Majors only)	3
Chem 303	Physical Chemistry Laboratory (Chem Majors only)	2
Chem 314	Instrumental Analysis Lecture and Lab (Chem majors only)	4
Chem 340	Advanced Inorganic Chemistry (for Chem Majors)	3
Chem 341	Advanced Inorganic Chemistry Laboratory (for Chem Majors)	1
Chem 370	Biochemistry I (for Biochem and Chem majors)	3

### **Chemistry Electives**

Chem 323	Medicinal Chemistry	3
Chem 365	Proteomics	3
Chem 388	Biophysical Chemistry	3
Chem 395	Special Topics in Chemistry	3
Chem 396	Special Topics in Biochemistry	3