

# B.S. IN CHEMISTRY

This is an American Chemical Society certified major.

Code	Title	Credits
<b>Major in Chemistry (B.S.)</b>		
CHE 113 & CHE 113D	General Chemistry and General Chemistry Lab	4
CHE 200	Laboratory Safety and Chemical Hygiene	1
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
CHE 320	Instrumental Analysis	3
CHE 344 & CHE 345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 348	Quantum Chemistry and Spectroscopy	3
CHE 364	Inorganic Chemistry	3
CHE 388 & CHE 389	Biochemistry I and Biochemistry I Lab <sup>1</sup>	4
CHE 395	Chemistry Seminar: Research and Professional Development	1
CHE 396 & CHE 397	Biochemistry II and Biochemistry II Lab	4
CHE 494	Chemistry Seminar: Research Presentation	1
Choose one of the following research courses:		0-2
CHE 490	Chemistry Seminar: Research	
CHE 492	Chemistry Seminar: Summer Research	
MAT 124M	Calculus 1 <sup>2</sup>	4
MAT 125	Calculus 2	4
Choose one of the following course sequences: <sup>3</sup>		8
PHY 202 & PHY 202D & PHY 206 & PHY 207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab	
or		
PHY 292 & PHY 292D & PHY 296 & PHY 297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major		60-62
General Education *		40-48

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Electives	14-20
<b>Total Credits</b>	<b>122</b>

- <sup>1</sup> The BIO 120/BIO 120D or BIO 124/BIO 124D prerequisite for this course may be waived for B.S. in Chemistry majors.
- <sup>2</sup> Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.
- <sup>3</sup> Students planning to attend graduate school are strongly encouraged to take PHY 292/PHY 292D and PHY 296/PHY 297.
- \* Courses whose number is followed by a letter fulfill a General Education requirement. Students may not declare a B.A. in Chemistry and a B.S. in Chemistry. Students may not declare a B.S. in Chemistry and a Minor in Chemistry.