

# CHEMISTRY MAJOR (COMPREHENSIVE)

## Requirements

53 total credits

All grades in required courses for this major must be C or higher, except that two grades of C- may be counted toward the major. No minor is required.

Code	Title	Hours
<b>Chemistry Core Courses</b>		
CHEM 105	General Chemistry I	5.00
CHEM 106	General Chemistry II	4.00
CHEM 305	Quant Analysis Lecture	3.00
CHEM 306	Quantitative Analysis Laboratory	2.00
CHEM 320	Organic Chemistry Lecture I	3.00
CHEM 321	Organic Chem Lecture II	3.00
CHEM 322	Organic Chemistry Lab I	1.00
CHEM 323	Organic Chemistry Lab II	1.00
CHEM 327	Molecular Spectroscopy I	1.00
CHEM 345	Physical Chemistry Lect I	4.00
CHEM 360	Introduction to Biochemistry	3.00
CHEM 365	Descriptive Inorganic Chemistry	3.00
CHEM 497	Senior Seminar In Chemistry	1.00
MATH 240	Calculus and Analytic Geometry I	4.00
MATH 241	Calculus and Analytic Geometry II	4.00
PHYS 201	Calculus-Based Physics I <sup>1</sup>	5.00
PHYS 202	Calculus-Based Physics II <sup>1</sup>	5.00
<b>Capstone Course</b>		
Select one of the following:		1.00
CHEM 491	Senior Research	
CHEM 496	Senior Paper	
CHEM 498	Internship	
<b>Recommended:</b>		
CHEM 107	Supplementary Problems in General Chemistry II	
MATH 242	Calculus and Analytic Geometry III	
<b>Total Hours</b>		<b>53.00</b>

<sup>1</sup> PHYS 107 Algebra-Based Physics I & PHYS 205 Calculus Applications in Introductory Physics I together substitute for PHYS 201 Calculus-Based Physics I. PHYS 108 Algebra-Based Physics II and PHYS 206 Calculus Applications in Introductory Physics II together substitute for PHYS 202 Calculus-Based Physics II. Special department permission required to enroll in PHYS 205 Calculus Applications in Introductory Physics I or PHYS 206 Calculus Applications in Introductory Physics II.

foundation. In addition to the required courses listed above students must also complete:

Code	Title	Hours
CHEM 346	Physical Chemistry Lecture II	3.00
CHEM 348	Physical Chemistry Lab II	2.00
CHEM 375	Instrumental Analysis Lecture	3.00
CHEM 376	Instrumental Analysis Lab	2.00
<b>Total Hours</b>		<b>10.00</b>

## Professional Chemistry Option

This option is recommended for students considering graduate school in chemistry or employment as a professional chemist. The additional coursework provides the student with a stronger theoretical and practical