

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
Chemistry Core Courses		
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 ¹	5.00
PHYS 202	Calculus-Based Physics II ¹	5.00
Capstone Course		
Select one of the following:		1.00
CHEM 491	Senior Research	
CHEM 496	Senior Paper	
CHEM 498	Internship	
Recommended:		
CHEM 107	Supplementary Problems in General Chemistry II	
MATH 242	Calculus and Analytic Geometry III	
Total Hours		53.00

¹ 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.

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

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
Total Hours		10.00