

# CHEMISTRY, MINOR

The chemistry minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. The Department of Chemistry is housed in the College of Letters & Science. Students may wish to consult with a chemistry undergraduate advisor (<http://www.chem.wisc.edu/content/undergraduate-advising>) to discuss course selection and other issues related to this field of study.

## HOW TO GET IN

This minor may be completed only by students admitted to the Middle Childhood through Early Adolescence options of Elementary Education. Students admitted to the Content Focus option (<http://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-education-bse/elementary-education-middle-childhood-through-early-adolescence-content-focused-minor-bse>) are asked to identify the minor of their choice when admitted to the program. Students admitted to the other Middle Childhood through Early Adolescence options should fill out a minor declaration form available in Education Academic Services, Room 139 Education Building.

## REQUIREMENTS

### CHEMISTRY MINOR PREREQUISITES

Note that students must complete prerequisite coursework before enrolling in some courses required for the minor. For example, MATH 222 Calculus and Analytic Geometry 2 and PHYSICS 201 General Physics or PHYSICS 207 General Physics must be completed before taking CHEM 561 Physical Chemistry. Prerequisite coursework may be used to meet liberal studies requirements.

### CHEMISTRY MINOR REQUIREMENTS

A minimum cumulative grade point average of 2.75 is required, based on all chemistry minor coursework taken on the UW–Madison campus.

Complete at least 22 credits, including the following:

Code	Title	Credits
<b>Introductory Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
<b>Analytical Chemistry</b>		
Select one of the following:		4-5
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 116 & CHEM 115	Chemical Principles II and Chemical Principles I	
<b>Organic Chemistry</b>		
Select one of the following options:		7-8
Option 1:		

CHEM 341	Elementary Organic Chemistry	
CHEM 342	Elementary Organic Chemistry Laboratory	
BIOCHEM 501	Introduction to Biochemistry	
Option 2:		
CHEM 343	Introductory Organic Chemistry	
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Intermediate Organic Chemistry	
<b>Inorganic Chemistry</b>		4
CHEM 311	Chemistry Across the Periodic Table	
<b>Physical Chemistry</b>		3
CHEM 561 or CHEM 565	Physical Chemistry or Biophysical Chemistry	
<b>Electives</b>		
Complete Chemistry electives to total 22 credits <sup>1</sup>		

<sup>1</sup> CHEM 346 Intermediate Organic Chemistry Laboratory is recommended. BIOCHEM 501 Introduction to Biochemistry, CIV ENGR 500 Water Chemistry, CBE 440 Chemical Engineering Materials, CBE 540 Polymer Science and Technology, are also recommended elective options.