

# CHEMISTRY - MINOR

The department offers a minor in chemistry. Declaration of a chemistry minor is open to any student enrolled at CU Boulder, regardless of college or school.

## Requirements

The College of Arts and Sciences will allow a maximum of 9 hours of transfer credit, including 6 upper-division credit hours, to count toward a minor. Students may only transfer courses through organic chemistry. All courses required for the minor must be completed with a grade of C- or better, and the overall GPA in all CHEM courses taken must be a 2.00.

Students who have taken CHEN 1211 and CHEM 1221 may substitute them for General Chemistry 1. Engineering students who have taken CHEN 4521 may *not* use this to satisfy the physical chemistry requirement. CHEM 4511 requires prerequisites of calculus 3 and general physics 1.

Code	Title	Credit Hours
<b>General Chemistry</b>		
<i>Introductory Chemistry:</i>		10
Complete one of the two introductory chemistry courses (including labs):		
CHEM 1113 & CHEM 1114	General Chemistry 1 and Laboratory in General Chemistry 1	
CHEM 1400 & CHEM 1401	Foundations of Chemistry and Foundations of Chemistry Lab	
Complete one of the two secondary chemistry courses (including labs):		
CHEM 1133 & CHEM 1134	General Chemistry 2 and Laboratory in General Chemistry 2	
CHEM 2100 & CHEM 2101	Foundations of Chemistry 2 and Laboratory in Foundations of Chemistry 2	
<b>Advanced Coursework</b>		
<i>Organic Chemistry</i>		10-12
<i>Organic Chemistry 1</i>		
Lecture		
CHEM 3311 or CHEM 3451	Organic Chemistry 1 or Organic Chemistry 1 for Chemistry and Biochemistry Majors	
Lab		
CHEM 3321 or CHEM 3361	Laboratory in Organic Chemistry 1 or Laboratory in Organic Chemistry 1 for Chemistry Majors	
<i>Organic Chemistry 2</i>		
Lecture		
CHEM 3331 or CHEM 3471 or BCHM 3491	Organic Chemistry 2 or Organic Chemistry 2 for Chemistry Majors or Organic Chemistry 2 for Biochemistry Majors	
Lab		
CHEM 3341 or CHEM 3381	Laboratory in Organic Chemistry 2 or Laboratory in Organic Chemistry 2 for Chemistry Majors	

<i>Physical Chemistry</i>		3
CHEM 4511	Physical Chemistry 1	
<i>Elective</i>		3
Select one of the following:		
CHEM 4011	Modern Inorganic Chemistry	
CHEM 4171	Instrumental Analysis - Lecture and Laboratory 1	
CHEM 4531	Physical Chemistry 2	
Total Credit Hours		26-28