## **CHEMISTRY - MINOR**

Title

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

Code

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.

Credit

Code	ritte	Hours
<b>General Chemistry</b>		
Introductory Chemistr	y:	10
Complete one of the (includings labs):	two introductory chemistry courses	
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 (includings labs):	two secondary chemistry courses	
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	
Advanced Coursework		
Organic Chemistry		10-12
Organic Chemistry 1		
Lecture		
CHEM 3311	Organic Chemistry 1	
or CHEM 3451	Organic Chemistry 1 for Chemistry and Biochemistry Majors	
Lab		
CHEM 3321 or CHEM 3361	Laboratory in Organic Chemistry 1	
Organic Chemistry 2		
Lecture		
CHEM 3331	Organic Chemistry 2	
or CHEM 3471	Organic Chemistry 2 for Chemistry Majors	
or BCHM 3491	Organic Chemistry 2 for Biochemistry Majors	3
Lab		
CHEM 3341	Laboratory in Organic Chemistry 2	
or CHEM 3381	Laboratory in Advanced Organic Chemistry	
Physical Chemistry 3		
CHEM 4511	Physical Chemistry 1	

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