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.

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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**General Chemistry**

*Introductory Chemistry:*

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

**Advanced Coursework**

*Organic Chemistry* 10-12

**Organic Chemistry 1**

*Lecture*

- **CHEM 3311** 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** or **CHEM 3471** or **BCHM 3491** Organic Chemistry 2 for Chemistry Majors

*Lab*

- **CHEM 3341** or **CHEM 3381** Laboratory in Advanced Organic Chemistry

**Physical Chemistry**

- **CHEM 4511** Physical Chemistry 1

**Elective**

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