## BIOCHEMISTRY - MINOR

A minor is offered in biochemistry. Declaration of a biochemistry 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 transfer courses through organic chemistry only. All courses required for the minor must be completed with a grade of C - or better, and the overall GPA in all BCHM and CHEM courses taken must be a 2.00 .

Students who have taken CHEN 1211 and CHEM 1221 may substitute them for CHEM 1113 . Engineering students who have taken CHEN 4521 may not use this to satisfy the physical chemistry requirement.

| Code | Title | Credit Hours |
| :---: | :---: | :---: |
| General Chemistry |  |  |
| Select one of the following two options: |  | 5-10 |
| Option 1: |  |  |
| CHEM 1113 <br> \& CHEM 1114 | General Chemistry 1 and Laboratory in General Chemistry 1 |  |
| CHEM 1133 <br> \& CHEM 1134 | General Chemistry 2 and Laboratory in General Chemistry 2 |  |
| Option 2: |  |  |
| CHEM 1400 <br> \& CHEM 1401 | Foundations of Chemistry and Foundations of Chemistry Lab |  |
| Organic Chemistry |  | 10-12 |
| Organic Chemistry 1 |  |  |
| Lecture |  |  |
| CHEM 3311 <br> or CHEM 3451 | Organic Chemistry 1 <br> Organic Chemistry 1 for Chemistry and Biochemistry Majors |  |
| Lab |  |  |
| CHEM 3321 <br> or CHEM 3361 | Laboratory in Organic Chemistry 1 <br> Laboratory in Organic Chemistry 1 for Chem Majors |  |
| Organic Chemistry 2 |  |  |
| Lecture |  |  |
| CHEM 3331 <br> or CHEM 3471 <br> or BCHM 3491 | Organic Chemistry 2 <br> Organic Chemistry 2 for Chemistry Majors <br> Organic Chemistry 2 for Biochemistry Majo |  |
| Lab |  |  |
| CHEM 3341 <br> or CHEM 3381 | Laboratory in Organic Chemistry 2 <br> Laboratory in Organic Chemistry 2 for Chem Majors |  |
| Physical Chemistry |  |  |
| Select one of the following: 3-4 |  |  |
| BCHM 4400 | Core Concepts in Physical Chemistry for Biochemists |  |
| CHEM 4511 | Physical Chemistry 1 |  |

## Biochemistry

| Select one of the following: |  | 3-8 |
| :---: | :---: | :---: |
| BCHM 4611 | Principles of Biochemistry |  |
| $\begin{aligned} & \text { BCHM } 2700 \\ & \& \text { BCHM } 4720 \end{aligned}$ | Foundations of Biochemistry and Metabolic Pathways and Human Disease |  |
| BCHM 2700 <br> \& BCHM 4740 | Foundations of Biochemistry and Biochemistry of Gene Transmission, Expression and Regulation |  |
| Total Credit Hours |  | -34 |

