

# MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY - MINOR

---

The department offers a minor in molecular, cellular and developmental biology. Declaration of the minor is open to any student enrolled at CU Boulder, regardless of college or school.

## Requirements

Students must complete a total of 20 credit hours of molecular, cellular and developmental biology coursework, 12 of which must be at the upper-division level. Students must maintain an overall and minor GPA of at least 2.00 (C), and complete all MCDB courses with a C- or better.

Students may apply no more than 9 credit hours, including 6 upper-division credit hours, of transfer work toward the minor.

## Required Courses and Credits

| Code  | Title  | Credit Hours |
|---|--|--------------|
| <b>Required Courses</b>                               |  |              |
| MCDB 1150   | Introduction to Cellular and Molecular Biology                       | 3            |
| or MCDB 1111  | Core Concepts in Biology I: Evolutionary, Molecular and Cell Biology |              |
| or EBIO 1210  | General Biology 1  |              |
| or CHEN 2810  | Biology for Engineers  |              |
| MCDB 2150   | Principles of Genetics   | 3            |
| or MCDB 2222  | Core Concepts in Biology II: Genes, Genetics and Phenotypes          |              |
| or EBIO 2070  | Genetics: Molecules to Populations                                   |              |
| MCDB 1161   | From Dirt to DNA: Phage Genomics Laboratory I                        | 2            |
| or MCDB 1171  | Antibiotics Discovery Through Hands-on Screens I                     |              |
| or MCDB 2171  | Chemotherapeutic Discovery Through Hands-On Screens 2                |              |
| or MCDB 1181  | Biological Probiotic/Drug Discovery Through Hands-on Screens         |              |
| MCDB 3135   | Molecular Biology  | 3            |
| MCDB 3145   | Cell Biology   | 3            |
| <b>Electives</b>                                      |  |              |
| Upper-division MCDB coursework (3000-level or higher) |  | 6            |
| <b>Total Credit Hours</b>                             |  | <b>20</b>    |