

# BIOLOGY MINOR

## Introduction

Please click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/schools-colleges-departments/college-liberal-arts-sciences/integrative-biology/>) to see Integrative Biology department information.

These degree requirements are subject to periodic revision by the academic department, and the College of Liberal Arts and Sciences reserves the right to make exceptions and substitutions as judged necessary in individual cases. Therefore, the College strongly urges students to consult regularly with their major advisor and CLAS advisor to confirm the best plans of study before finalizing them.

## Program Delivery

- This is an on-campus program.

## Declaring This Minor

- Please see your CLAS advisor.
- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/academic-policies-procedures/declaring-changing-major/declare-change-major-minor/>) to go to information about declaring a major/minor.

## General Requirements

Students must satisfy all requirements as outlined below and by the department offering the minor.

- CU Denver General Graduation Requirements (<http://catalog.ucdenver.edu/cu-denver/undergraduate/graduation/general-graduation-requirements/>)
- Click here (<http://catalog.ucdenver.edu/cu-denver/undergraduate/academic-policies-procedures/>) for information about Academic Policies

## Program Requirements

1. Students must complete a minimum of 27 credit hours, including a minimum of 18 BIOL credit hours and 9 credit hours in ancillary coursework.
2. Students must complete a minimum of 9 upper-division (3000-level and above) BIOL credit hours.
3. Students must earn a minimum grade of C- (1.7) in all minor courses taken at CU Denver and must achieve a minimum cumulative minor GPA of 2.0. All graded attempts in required and elective courses are calculated in the minor GPA. Students cannot complete minor or ancillary course requirements as pass/fail.
4. Students must complete a minimum of 9 upper division level BIOL credit hours with CU Denver faculty.

## Program Restrictions, Allowances and Recommendations

1. All upper-division biology courses applied to the undergraduate biology major must be completed within 10 years of graduation.

## Required courses

Code	Title	Hours
<i>Take all of the following</i>		<i>8</i>
BIOL 2010 or BIOL 2030	Organisms to Ecosystems (Gen Bio) Honors Organisms to Ecosystems (Gen Bio)	3
BIOL 2011 or BIOL 2031	Organisms to Ecosystems Lab (Gen Bio) Honors Organisms to Ecosystems Lab (Gen Bio)	1
BIOL 2020 or BIOL 2040	Molecules to Cells (Gen Bio) Honors Molecules to Cells (Gen Bio)	3
BIOL 2021 or BIOL 2041	Molecules to Cells Lab (Gen Bio) Honors Molecules to Cells Lab (Gen Bio)	1

Code	Title	Hours
<i>Take two of the following</i>		<i>6</i>
BIOL 3411	Principles of Ecology	3
BIOL 3445	Introduction to Evolution	3
BIOL 3611	General Cell Biology	3
BIOL 3832	General Genetics	3

## Upper Division Biology Electives

Code	Title	Hours
<i>Take at least two upper division level Biology courses (3000 or higher), including at least one of the following labs<sup>1</sup></i>		<i>4</i>
BIOL 3137	Advanced Special Topics with Lab	1-15
BIOL 3225	Human Physiology	4
BIOL 3244	Human Anatomy	5
BIOL 3413	Ecology Laboratory	2
BIOL 3612	Cell Biology Laboratory	3
BIOL 3640	Mammalogy	4
BIOL 3654	General Microbiology	5
BIOL 4125	Molecular Biology Laboratory	3
BIOL 4335	Plant Science	4
BIOL 4345	Flora of Colorado	4
BIOL 4644	Advanced Human Anatomy Laboratory	2
BIOL 4910	Field Studies	3

<sup>1</sup> BIOL 3020 Practical Laboratory Skills will not satisfy this requirement.

## Ancillary Course Requirements

Code	Title	Hours
<i>Take all of the following</i>		<i>9</i>

### Chemistry

Code	Title	Hours
CHEM 2031 or CHEM 2081	General Chemistry I Honors General Chemistry I	3
CHEM 2038 or CHEM 2088	General Chemistry Laboratory I Honors General Chemistry I Laboratory	1
CHEM 2061 or CHEM 2091	General Chemistry II Honors General Chemistry II Lecture	3

CHEM 2068	General Chemistry Laboratory II	2
or CHEM 2098	Honors General Chemistry II Laboratory	

To learn more about the Student Learning Outcomes for this program, please visit our website ([https://clas.ucdenver.edu/integrative-biology/academics/undergraduate-programs/#biology\\_major-73](https://clas.ucdenver.edu/integrative-biology/academics/undergraduate-programs/#biology_major-73)).