

Biology—Biomedical Sciences

Bachelor of Science



Semester 1

Course	Credits	Grade		✓
ENGL 101: Composition & Rhetoric I	3	C*		☐
BIOL 121/L: Foundations of Biology I with Lab	4	C		☐
BIOL 130: Freshmen Biology Seminar	1	C		☐
CHEM 101/111: Principles of Chemistry I with Lab	4	C		☐
MATH 103: College Algebra or MATH 107: Precalculus	3-4	C		☐
UNIV 100: CU Foundations	1			☐

16-17

Semester 2

Course	Credits	Grade		✓
ENGL 102: Composition & Rhetoric II	3	C*		☐
BIOL 122/L: Foundations of Biology II with Lab	4	C		☐
CHEM 102/112: Principles of Chemistry II with Lab	4	C		☐
MATH 104: College Trigonometry (If taken MATH 107, take an Elective/Minor)	3			☐

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Semester 3

Course	Credits	Grade		✓
*BIOL 201: Ecology and Field Methods or BIOL 369: Evolution	3-4			☐
CHEM 331: Organic Chemistry I	3			☐
MATH 105: Elementary Statistics	3			☐
General Education Course	3			☐
General Education Course	2-3			☐

14-16

Semester 4

Course	Credits	Grade		✓
BIOL 230: Sophomore Biology Seminar	1			☐
CHEM 341/347: Biochemistry with Lab	4			☐
BIOL 302: Cell and Molecular Biology	4			☐
General Education Course (PSY 101 recommended)	3			☐
General Education Course	3			☐

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The **Bachelor of Science in Biology** degree with Biomedical Sciences emphasis is designed for students planning to attend a graduate school (in fields such

as agriculture, biochemistry, cell biology, ecology, environmental science, genetics, etc.), veterinary school, or a human health professional school (such as medical, dental, chiropractic, or pharmacy).



MILESTONE COURSES

Courses marked as Milestone Courses are crucial for staying on track to complete your degree

in four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk are required to pass.



LANDMARKS

Points where you see a landmark icon on the four-year plan indicate you have reached a point of action outside regular coursework!

See the Helpful Hints for information on each landmark.

Helpful Hints

- Use this plan in consultation with your Academic Advisor.
- This four-year plan assumes you begin your degree in the Fall semester. Courses in **bold** are only offered during the semester shown.
- Semesters 1 & 2: MATH 103 and MATH 104 are *not* required for this degree, but are recommended. Also, MATH 103 & 104 or equivalent proficiency is required for PHYS 101.
- See the [Academic Catalog](#) and discuss with your advisor about courses that fulfill the Directed Elective requirements and align with your career goals.

Semester 5

Course	Credits	Grade	✓
BIOL 401: Genetics	4		☐
PHYS 101: Introductory Physics	4		☐
Directed Elective	4		☐
General Education Course (SOC 101 recommended)	3		☐
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Semester 6

Course	Credits	Grade	✓
*BIOL 202: Animals as Organisms	4		☐
PHYS 102: Intermediate Physics	4		☐
Directed Elective	4		☐
General Education Course	3		☐
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Semester 7

Course	Credits	Grade	✓
Directed Elective	4		☐
Directed Elective	4		☐
General Education Course	3		☐
Elective/Minor	3		☐
14			

Semester 8

Course	Credits	Grade	✓
BIOL 455: Biology Capstone	2		☐
Directed Elective	4		☐
General Education Course	3		☐
Elective/Minor	3		☐
Elective/Minor	3-4		☐
15-16			



ADVISING

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Biology. This advisor can help you with course selection, career planning, resume building, and help you with tracking your path to degree completion.

CAREERS

- Chiropractor
- Dentist
- Environmental Consultant
- Medical Doctor
- Pharmacist
- Research Technician
- Science Educator
- Veterinarian
- Research Scientist

STUDENT ORGANIZATIONS

- PATCH
- CU ACS
- Sigma Zeta (honor society)

COMPLEMENTARY MINORS

- Business Administration
- Chemistry
- Computer Science
- Mathematics
- Neuroscience
- Physics
- Psychology

Helpful Hints

- Students must take either BIOL 202 or BIOL 301.
- Students must take either BIOL 201 or BIOL 369.
- Semester 8 Landmark—Students completing the biology capstone will analyze a current issue in biology, write a critical review, and give an oral presentation which is open to the public. **At the end of the course, comprehensive program assessments are administered; a passing grade must be obtained.** Students have the option to take BIOL 470: Senior Independent Research I (3) and BIOL 471: Senior Independent Research II (3) instead of BIOL 455.