

MSU Denver  
Department of Biology

**REQUIREMENTS FOR B.A. IN BIOLOGY**  
(2020-2021 or future catalogs ONLY)

**A grade of “C-” or better is required for each BIO prefix course to count towards the major**

**Required Biology Courses**

- BIO 1080 (3 credits)** - General Biology I
- BIO 1090 (1 credit)** - General Biology Lab I
- BIO 1081 (3 credits)** - General Biology II
- BIO 1091 (1 credit)** - General Biology Lab II
  
- BIO 3520 (3 credits)** - General Ecology

**Pick ONE Genetics option:**

- BIO 3600 (4 credits)** - General Genetics (no lab)
- BIO 3610 (4 credits)** - Genetics: Principles & Analysis (has lab)

**Pick ONE of the following options:**

**Option 1: BIO 2100 (5 credits)** - General Botany

**Option 2: BIO 2400 (5 credits)** - General Microbiology

**Option 3: BIO 2310 AND BIO 2320 (4 credits each)** - Anatomy & Physiology I & II  
(You must take both semesters to get credit for this option.)

**Option 4: BIO 3200 - Invertebrate Zoology (4 credits) OR BIO 3260 – Vertebrate Zoology (4 credits)**  
(If you wish to take both courses, the other will count as an upper division elective.)

**Pick a Senior Experience course (required):**

<b>Senior Experience Options:</b>	
<b>BIO 4050 (3 credits)</b> - Advanced Cell & Molecular Biology	<b>BIO 4850 (3 credits)</b> - Evolution
<b>BIO 4230 (3 credits)</b> – Issues in Conservation Biology	<b>BIO 4510 (4 credits)</b> - Microbial Ecology
<b>BIO 4300 (3 credits)</b> - Neurobiology	<b>BIO 4540 (4 credits)</b> - Plant Ecology
<b>BIO 4820 (4 credits)</b> - Developmental Biology	<b>BIO 4550 (4 credits)</b> Animal Ecology

**Elective Biology Courses:**

Biology courses from 2000, 3000, and 4000 must be completed to bring the total of biology courses approved for the major to 40 credits. ***At least 21 of these Biology credits must be 3000 or 4000 level courses taken in the Department of Biology.***

Total Credit Hours in Biology (minimum of 40) \_\_\_\_\_

Upper Division Biology Credit Hours (minimum of 21) \_\_\_\_\_

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**Non-BIO Course Requirements:**

<input type="checkbox"/> <b>CHE 1100 (4 credits)</b> - Principles of Chemistry*	<input type="checkbox"/> <b>CHE 1800 (4 credits)</b> – General Chemistry I*
<input type="checkbox"/> <b>CHE 2100 (4 credits)</b> - Intro to Organic and Biological Chemistry	<input type="checkbox"/> <b>CHE 1801 (1 credit)</b> – General Chemistry I Lab
<b>OR</b>	
<input type="checkbox"/> <b>CHE 1810 (4 credits)</b> – General Chemistry II	

\*As of 2021-22, CHE 1100 and CHE 1800 will count toward the Natural and Physical Sciences requirement without the inclusion of the lab.

**Math Requirement:**

One Semester of Math \_\_\_\_\_

**Choose from the following math courses:**

MTH 1108-1109 (Stretch College Algebra)\*, MTH 1111 and MTH 1101 (College Algebra with lab), MTH 1110 (College Algebra), MTH 1112 (College Algebra through Modeling), MTH 1120 (Trigonometry), MTH 1115 and MTH 1116 (College Algebra through Modeling with lab), MTH 1210 (Intro to Statistics), MTH 1410 (Calculus I)\*\*

\*\*Students planning to take Calculus must take MTH 1108-1109, MTH 1110, or MTH 1111\*\*

For **General Studies Requirements (33 credits total)**, please visit <http://www.msudenver.edu/advising/facultystaff/generalstudiesrequirements/>

**Total Credits (Minimum 120)** \_\_\_\_\_

**Total Upper Division Credits (Minimum 40 TOTAL)** \_\_\_\_\_

**What is your Minor? (Optional as of Fall 2024)** \_\_\_\_\_