

# BIOLOGY (BA DEGREE TRACK)

(56 credits, plus an approved minor - typically 18-22 credits - or second major)

| Code   | Title  | Credits |
|--|--|---------|
| <b>Core Requirements (23 Credits)</b>  |  |         |
| BIO201 & BIO211  | General Biology I and Gen Bio 1 Lab <sup>1</sup>               | 4       |
| BIO202 & BIO212  | General Biology II and Gen Bio 2 Lab <sup>1</sup>              | 4       |
| BIO320 & BIO321  | Genetics and Genetics Lab <sup>2</sup>                         | 4       |
| BIO322   | Evolution <sup>2</sup>   | 3       |
| CHE201 & CHE211  | General Chemistry I and General Chemistry I Lab <sup>3</sup>   | 4       |
| CHE202 & CHE212  | General Chemistry II and General Chemistry II Lab <sup>3</sup> | 4       |
| Participation in Lecture Series (6 hours)  |  | 0       |
| <b>Biology Electives (25 Credits)</b>  |  |         |
| Upper-division (300-level or above) Biology or selected Biochemistry courses and/or BIO296 Departmental Elective, with at least 3 credits in each of the following categories: |  | 25      |
| Environmental Biology:   |  |         |
| BIO301   | Field Biology Fall   |         |
| BIO340   | Ecology  |         |
| BIO425   | Plant Ecophysiology  |         |
| BIO440   | Freshwater Biology   |         |
| BIO445   | Ornithology  |         |
| Evolution & Diversity of Life:   |  |         |
| BIO305   | Plant Morphology   |         |
| BIO307   | Comparative Vertebrate Anatomy                                 |         |
| BIO360   | Virology   |         |
| BIO370   | Animal Physiology  |         |
| BIO412   | Evolutionary Theory  |         |
| BIO418   | Animal Behavior  |         |
| BIO435   | Entomology   |         |
| BIO446   | Cellular Evolution   |         |
| Architecture of Life:  |  |         |
| BIO311   | Developmental Plant Anatomy                                    |         |
| BIO350   | General Microbiology   |         |
| BIO358   | Molecular Biology  |         |
| BIO359   | Cell Biology   |         |
| BIO388   | Biological Chemistry   |         |
| BIO413   | Developmental Biology  |         |
| BIO444   | Nucleic Acid Technologies                                      |         |
| BIO448   | Host-Microbe Coevolution                                       |         |
| BIO451   | Capstone Microbiology  |         |
| BCM360   | Protein Structure and Function                                 |         |
| BCM461   | Biochemistry I   |         |
| Capstone:  |  |         |
| BIO4xx   | Any 400-level Biology course                                   |         |
| <b>Cognate Requirements (8 Credits)</b>  |  |         |

Select 8 credits of the following: 8

|                 |  |
|-----------------|--|
| CHE318 & CHE306 | Organic Chemistry I and Organic Chemistry I Lab      |
| CHE319 & CHE309 | Organic Chemistry II and Organic Chemistry II Lab    |
| CPS104          | Visual Programming                                   |
| CPS210          | Computer Science I: Foundations                      |
| CPS310          | Computer Science II: Data Structures                 |
| GLG201 & GLG211 | Physical Geology and Physical Geology Laboratory     |
| GLG202          | Historical Geology                                   |
| MAT241          | Introduction to Statistics                           |
| MAT251          | Calculus I   |
| MAT252          | Calculus II  |
| PHY201 & PHY211 | General Physics 1 and Physics 1 Laboratory           |
| PHY202 & PHY212 | General Physics 2 and General Physics 2 Lab          |
| PHY221 & PHY211 | Fundamental Physics 1 and Physics 1 Laboratory       |
| PHY222 & PHY232 | Fundamental Physics II and Fundamental Physics 2 Lab |

**Total Credits 56**

<sup>1</sup> BIO201 General Biology I /BIO211 Gen Bio 1 Lab and BIO202 General Biology II /BIO212 Gen Bio 2 Lab must be taken in sequence. A minimum grade of C- is required in BIO201 General Biology I and BIO202 General Biology II .

<sup>2</sup> A minimum grade of C- in BIO320 Genetics is a prerequisite for several 300-level biology courses. In addition, most 400-level biology courses require a minimum grade of C- in both BIO320 Genetics and BIO322 Evolution.

<sup>3</sup> A minimum grade of C- is required to advance from CHE201 General Chemistry I to CHE202 General Chemistry II and from CHE202 General Chemistry II to CHE318 Organic Chemistry I .

**Additional considerations for admission to medical, dental and veterinary schools:** The requirements for these professional schools are constantly evolving and vary from institution to institution. Please contact the [Health Career Advisor](#).