# Academic Planning Sheet

## B.S. Biology

**Basic Biology Emphasis**

### Colorado State University – Pueblo

**2016-2017 Catalog**

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<tr>
<th>Academic Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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| **First Year**| ENG 101: English Composition I  
BIOL 171: First Year Seminar  
BIOL 181/L: College Biology I/Organismal Bio/Lab  
CHEM 121/121L: General Chemistry I/Lab | ENG 102: English Composition II  
BIOL182/L: College Biology II/Cellular Bio/Lab  
CHEM 122/122L: General Chemistry/Lab  
MATH 221: Applied Calculus |
| **TOTAL SEMESTER HOURS** | 13 | 16 |
| **Second Year**| BIOL 201/L: Botany/Lab (Spring)  
OR  
BIOL 202/L: Zoology/Lab (Fall)  
CHEM 301/301L: Organic Chemistry I/Lab  
MATH 156: Introduction to Statistics  
COMR 103: Speaking and Listening | BIOL 350: Mendelian and Pop. Genetics  
CHEM 302/302L: Organic Chemistry II/Lab  
General Education Courses: Humanities  
General Education Courses: Social Science  
General Electives |
| **TOTAL SEMESTER HOURS** | 15 | 16 |
| **Third Year**| BIOL 301/301L: General Microbiology/Lab  
BIOL 351: Molecular Biology and Genetics  
PHYS 201/201L: Principles of Physics I/Lab OR  
PHYS 221/221L: General Physics I/Lab  
General Education Course: History  
General Electives | BIOL 352: Evolutionary Biology and Ecology  
PHYS 202/202L: Principles of Physics II/Lab OR  
PHYS 222/222L: General Physics II/Lab  
General Education Courses: Social Science  
Advisor Approved Upper Division Biology Elective |
| **TOTAL SEMESTER HOURS** | 15-16 | 15-16 |
| **Fourth Year**| General Electives  
Advisor Approved Upper Div. Biology Elective  
General Education Courses: Humanities | General Electives  
BIOL 412/L Cellular Biology (every spring) OR  
BIOL 413/L Plant Physiology (every other spring) OR  
BIOL 414/L Vertebrate Physiology (every fall)  
Advisor Approved Upper Div. Biology Elective  
BIOL 493: Senior Seminar  
General Electives |
| **TOTAL SEMESTER HOURS** | 15 | 15 |

The Academic Planning Sheet is designed as a guide for students planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of an academic adviser. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered the institution.
General Education Requirements: 21 semester hours

- ENG 101: English Composition I (3)
- ENG 102: English Composition II (3)
- Mathematics Course (3)
  - MATH 156: Introduction to Statistics (3)
- Humanities Courses (9)
  - COMR 103: Speaking and Listening (3)
- History Course (3)
- Social Sciences Courses (6)
- Natural and Physical Sciences Courses (8) (2 courses with labs)
  - BIOL 181/L: College Biology I/Organismal Bio/Lab (4)
  - BIOL182/L: College Biology II/Cellular Bio/Lab (4)

Course Completed elsewhere CSU-Pueblo equivalent
(Ex: English 101) (Ex: English 101)

Major Requirements:

Core Requirements for Major: 30 semester hours

- BIOL 171: First Year Seminar (1)
- BIOL 181/L: College Biology I/Organismal Bio/Lab (4)
- BIOL182/L: College Biology II/Cellular Bio/Lab (4)
- BIOL 201/L: Botany/Lab (4)
  - OR
- BIOL 202/L: Zoology/Lab (4)
- BIOL 301/L: General Microbiology/Lab (5)
- BIOL 350: Mendelian & Population Genetics (2)
- BIOL 351: Molecular Biology and Genetics (2)
- BIOL 352: Evolutionary Biology and Ecology (3)

Core Requirements for Major cont.:

- BIOL 412/L: Cellular Biology/Lab (4)
  - OR
- BIOL 413/L: Plant Physiology/Lab (4)
  - OR
- BIOL 414/L: Vertebrate Physiology/Lab (4)
- BIOL 493: Seminar (1)

Required Support Courses: 38-40 semester hours

- CHEM 121/L: General Chemistry I/Lab I (5)
- CHEM 122/L: General Chemistry II/Lab II (5)
- CHEM 301/L: Organic Chemistry I/Lab I (5)
- CHEM 302/L: Organic Chemistry II/Lab II (5)
- MATH 156: Introduction to Statistics (3)
- MATH 221: Applied Calculus (4)
- PHYS 201/L: Principles of Physics I/Lab I (4)
  - AND
- PHYS 202/L: Principles of Physics II/Lab II (4)
  - OR
- PHYS 221/L: General Physics I/Lab (5)
  - AND
- PHYS 222/L: General Physics II/Lab (5)
- COMR 103: Speaking and Listening (3)

Advisor-approved Upper Division Biology Electives: 15 semester hours

General Electives: 14-16 semester hours

(Courses italicized meet General Education requirements)

Institutional Graduation Requirements:

- Total of 120 semester hours, minimum.
- Complete a minimum of 40 semester hours in upper-division courses.
- Overall cumulative grade point average of 2.00.
- A minimum of 60 semester hours must be earned from a four-year institution. Of these, a minimum of 30 semester hours of credit must be earned in residence.
- Of the last 30 semester credits earned immediately preceding graduation, no more than 15 may be completed at other colleges or universities.
- All other requirements as specified in the Catalog.

Additional Major Graduation Requirements

- Student majoring in Biology must receive a grade of C or better in all core biology courses.
- Students must have at least a cumulative GPA of 2.000 in the major area.
- Students majoring in biology must demonstrate computer literacy. This can be met by CIS 100, CIS 103 and CIS 104 courses.

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