

ACADEMIC PLANNING SHEET

B.S. BIOLOGY BASIC BIOLOGY EMPHASIS

COLORADO STATE UNIVERSITY – PUEBLO

2014-2015 CATALOG

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	Fall Semester		Spring Semester	
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	3 1 4 5	ENG 102: English Composition II BIOL182/L: College Biology II/Cellular Bio/Lab CHEM 122/122L: General Chemistry/Lab MATH 221: Applied Calculus	3 4 5 4
	TOTAL SEMESTER HOURS	13	TOTAL SEMESTER HOURS	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	4 5 3 3	BIOL 350: Mendelian and Pop. Genetics CHEM 302/302L: Organic Chemistry II/Lab General Education Courses: Humanities General Education Courses: Social Science General Electives	2 5 3 3 3
	TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	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	5 2 4-5 3 1	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	3 4-5 3 5
	TOTAL SEMESTER HOURS	15-16	TOTAL SEMESTER HOURS	15-16
Fourth Year	General Electives Advisor Approved Upper Div. Biology Elective General Education Courses: Humanities	6 6 3	BIOL 412/L Cellular Biology (<u>every spring</u>) OR BIOL 413/L Plant Physiology (<u>every other spring</u>) OR BIOL 414/L Vertebrate Physiology (<u>every fall</u>) Advisor Approved Upper Div. Biology Elective BIOL 493: Senior Seminar General Electives	4 4 1 6
	TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	15

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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)

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.

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)

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