



**CU-Colorado Springs  
College of Letters, Arts and Sciences**

**Biology, Secondary Teaching Option**

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- This program includes both LAS requirements for graduation and Colorado requirements for Secondary (7-12) teachers. The program has no room for extra electives.
- As students complete courses from the list below, they should also complete T ED 300 and 301 by the end of their sophomore year.
- Students apply to the College of Education as rising juniors; if accepted, they continue with the courses below plus education courses. If not accepted, students may continue the bachelor's degree in the major without the education option.
- While this option prepares the student for teaching, it does not prepare a student for a professional science career.

**Biology Major, Secondary Teaching Option**

**Credits**

BIOL 110, 111 General Biology I and Lab	4
BIOL 115, 116 General Biology II and Lab	4
BIOL 370 General Ecology	3
BIOL 203 and 213 Microbiology and lab or BIOL 310 and 311 Bacteriology/Mycology and Lab	4
BIOL 302 Cell Biology	3
BIOL 383 Genetics or BIOL 483 Biochemistry	3
BIOL 425 Evolution	3
Biology upper-division electives (can use BIOL 300 from Reasoning Skills Requirement)	6

**General Education Requirements\*\***

\*\*Students are required as part of their general education requirements to complete courses in Oral Communication, Cultural Diversity, and Global Awareness. These courses are identified in the LAS section of the schedule of courses and in the bulletin.

Humanities Area Requirement

Core Humanities (HUM prefix, numbered 300 and above)	3
One of the following:	3
PHIL 100 Intro to Philosophy	
PHIL 102 Ethics	
PHIL 112 Critical Thinking	

Remaining hours from approved LAS General Humanities list	6
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Natural Science Area Requirement

CHEM 103 General Chemistry I	5
CHEM 106 General Chemistry II	5
PES 105 or 106 General Astronomy I or II	3

Social Science Area Requirement

PSY 100 General Psychology	4
Remaining hours from approved LAS Social Science list	8

Composition Requirement

ENGL 131 Rhetoric and Writing I	3
ENGL 141 Rhetoric and Writing II	3

Reasoning Skills Requirement

MATH 135 Calculus I	4
BIOL 300 Biometry (or other approved statistics course)	

**Other Requirements for Secondary Science Certification:**

PES 101 and 115 Physics for Life Science I and Lab	5
CHEM 330/340 Organic Chemistry and Lab	5
GEOL 101 Physical Geology	4

**Teacher Education Program** (See Education Advisor for specific courses)      36

**TOTAL CREDITS**      **127**

(OVER)

# **MODEL DEGREE PROGRAM**

## **BIOLOGY/ELEMENTARY EDUCATION (BIOL/ELM)**

The following four-year plan lists all the specific course requirements for the Bachelor of Arts degree in Biology with the Elementary Education Option. The order in which these courses are taken may vary with course availability. **Students are responsible for completing all course prerequisites.** Please note that this is a *suggested* degree program; your program may vary.

### ***Suggested First Year***

#### **FALL**

- \_\_\_\_\_ ENGL131 Rhetoric & Writing I  
(Prer. of ENGL099 or ACT 19+ or SAT 450+)
- \_\_\_\_\_ Social Science Elective
- \_\_\_\_\_ BIOL 110 & 111 General Biology I and lab – 4 hours
- \_\_\_\_\_ CHEM 103 General Chemistry I – 5 hours

**TOTAL=15 credits**

#### **SPRING**

- \_\_\_\_\_ ENGL141 Rhetoric & Writing II  
(Prer. of ENGL131 or ACT 29+ or SAT 650+)
- \_\_\_\_\_ CHEM 106 General Chemistry II – 5 hours
- \_\_\_\_\_ GEOL 101 Physical Geology – 4 hours
- \_\_\_\_\_ PSY 100 General Psychology – 4 hours
- \_\_\_\_\_ BIOL 115 & 116 General Biology II and lab – 4 hrs

**TOTAL=20 credits**

### ***Suggested Second Year***

#### **FALL**

- \_\_\_\_\_ Social Science Elective
- \_\_\_\_\_ PES 105 or 106 Astronomy
- \_\_\_\_\_ General Humanities Elective
- \_\_\_\_\_ PHIL 100 Intro., 102 Ethics, or 112 Critical Thinking
- \_\_\_\_\_ PES 101 and 115 Physics for Life Science and lab – 5 hours

**TOTAL=17 credits**

#### **SPRING**

- \_\_\_\_\_ BIOL 300 Biometry
- \_\_\_\_\_ BIOL 370 General Ecology
- \_\_\_\_\_ T ED 300 Contemporary American Education
- \_\_\_\_\_ T ED 301\* Early School Experience – 1 hour
- \_\_\_\_\_ MATH 135 Calculus I – 4 hours
- \_\_\_\_\_ BIOL 310 & 311 Bacteriology/Mycology & lab – 4 hr

**TOTAL=18 credits**

### ***Suggested Third Year***

#### **FALL**

- \_\_\_\_\_ Natural Science Elective from list
- \_\_\_\_\_ BIOL 302 Cell Biology
- \_\_\_\_\_ CHEM 330 and 340 Organic Chemistry and lab – 5 hrs
- \_\_\_\_\_ T ED 452 Educational Psychology
- \_\_\_\_\_ Core Humanities
- \_\_\_\_\_ T ED 301 Early School Experience – 1 hour

**TOTAL=18 credits**

#### **SPRING**

- \_\_\_\_\_ BIOL 383 Genetics
- \_\_\_\_\_ SPED 3001 Intro. To Special Education\*\*
- \_\_\_\_\_ BIOL 425 Evolution
- \_\_\_\_\_ Social Science Elective
- \_\_\_\_\_ T ED 462 Elementary Reading Methods (taken during the Summer semester)
- \_\_\_\_\_ General Humanities Elective

**TOTAL=18 credits**

### ***Suggested Fourth Year***

#### **FALL**

- \_\_\_\_\_ T ED 470 School Experience Secondary
- \_\_\_\_\_ T ED 472 Teaching Reading and Writing in the Content Area
- \_\_\_\_\_ T ED 479 Secondary Curriculum, Instruction, and Evaluation
- \_\_\_\_\_ T ED 491, 492, 493, 494, or 495 Secondary Content Methods

**TOTAL=12 credits**

#### **SPRING**

- \_\_\_\_\_ T ED 473 Student Teaching: Secondary – 12 hours

**TOTAL=12 credits**

All courses are 3 credits unless otherwise stated.

Students should attend a College of Education group advising session prior to applying to the First Tier. Please contact the Student Success Center at 262-3260 for information on dates and times for group advising sessions.

\* Students should apply for the First Tier of the Education Program while they are taking T ED300 and T ED301.

\*\* Students should apply for the Second Tier of the Education Program by February 1 of the year they plan to enter the Second Tier.