



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 CURR 4800 and one credit hour of T ED 3010 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.

<u>Biology Major, Secondary Teaching Option</u>	<u>Credits</u>
<u>(Grade of 'C-' or higher must be attained in <i>all</i> required courses.)</u>	
BIOL 1200 (formerly BIOL 115/116) General Biology I and Lab	4
BIOL 1210 (formerly BIOL 110/111) General Biology II and Lab	4
BIOL 3700 General Ecology	3
BIOL 2030 and 2130 Microbiology and lab or BIOL 3100 and 3110 Bacteriology/Mycolology and Lab	4
BIOL 3020 Cell Biology	3
BIOL 3830 Genetics	3
BIOL 4250 Evolution	3
Biology upper-division electives (can use BIOL 3000 from Reasoning Skills Requirement)	<u>6</u>

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 3000 and above)	3
One of the following:	3
PHIL 1000 Intro to Philosophy	
PHIL 1020 Ethics	
PHIL 1120 Critical Thinking	
Remaining hours from approved LAS General Humanities list	6
Natural Science Area Requirement	
CHEM 1030 General Chemistry I	5
CHEM 1060 General Chemistry II	5
PES 1050 or 1060 General Astronomy I or II	3
Social Science Area Requirement	
PSY 1000 General Psychology	3
Remaining hours from approved LAS Social Science list	9
Composition Requirement	
ENGL 1310 Rhetoric and Writing I	3
ENGL 1410 Rhetoric and Writing II	3
Reasoning Skills Requirement	
MATH 1350 Calculus I	4
BIOL 3000 Biometry (or other approved statistics course)	

Other Requirements for Secondary Science Certification:

PES 1010 and 1150 Physics for Life Science I and Lab	5
CHEM 3300/3400 Organic Chemistry and Lab	5
GEOL 1010 Physical Geology	4

UCCS Teach Program (See Education Advisor for specific courses) 30

TOTAL CREDITS **121**

(OVER)

MODEL DEGREE PROGRAM

BIOLOGY/SECONDARY EDUCATION (BIOL/SEC)

The following four-year plan lists all the specific course requirements for the Bachelor of Arts degree in Biology with the Secondary 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

- _____ ENGL1310 Rhetoric & Writing I
(Prer. of ENGL99 or ACT 19+ or SAT 450+)
- _____ UTED 1010 Inquiry Approaches to Teaching 1 hour
- _____ BIOL 1200 General Biology I and lab – 4 hours
- _____ CHEM 1030 General Chemistry I – 5 hours
- _____ GEOL 1010 Physical Geology – 4 hours
- TOTAL=16 credits**

SPRING

- _____ ENGL1410 Rhetoric & Writing II
(Prer. of ENGL1310 or ACT 29+ or SAT 650+)
- _____ CHEM 1060 General Chemistry II – 5 hours
- _____ UTED 1020 Inquiry Based Lesson Design – 1hour
- _____ BIOL 1210 General Biology II and lab – 4 hrs
- TOTAL=13 credits**

Suggested Second Year

FALL

- _____ Social Science Elective
- _____ BIOL 3020 Cell Biology
- _____ General Humanities Elective
- _____ UTED 2010 Knowing and Learning
- _____ PES 1010 and 1150 Physics for Life Science and lab – 5
- TOTAL=17 credits**

SPRING

- _____ BIOL 3830 Genetics
- _____ UTED 2020 Classroom Interactions
- _____ MATH 1350 Calculus I – 4 hours
- _____ BIOL 3100 & 3110Bacteriology/Mycology & lab – 4
- _____ Upper-Division Biology Elective
- TOTAL=17 credits**

Suggested Third Year

FALL

- _____ BIOL 3020 Cell Biology
- _____ CHEM 3300 and 3400 Organic Chemistry and lab – 5 hrs
- _____ UTLS 2040 Functions and Modeling
- _____ BIOL 3000 Biometry
- _____ UTLS 3020 Research Methods
- TOTAL=17 credits**

SPRING

- _____ PES 1060 Astronomy
- _____ BIOL 3700 General Ecology
- _____ Core Humanities
- _____ UTLS 3030 Mathematics
- _____ General Humanities Elective
- TOTAL=15 credits**

Suggested Fourth Year

FALL

- _____ UTED 4720 Reading in the Content Areas
- _____ PHIL 1020 Ethics
- _____ BIOL 4250 Evolution
- _____ PSY 1000 General Psychology
- TOTAL=12 credits**

SPRING

- _____ Social Science Elective
- _____ Social Science Elective
- _____ UTED 4731 Apprentice Teaching Seminar 1cr
- _____ UTED 4730 Apprentice Teaching 6cr
- TOTAL=13 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 255-3260 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 CURR4800 and T ED3010.

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