



Chemistry, 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 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.

Chemistry Major, Secondary Teaching Option

<u>Chemistry Major, Secondary Teaching Option</u>	<u>Credits</u>
CHEM 1030 General Chemistry I	5
CHEM 1060 General Chemistry II	5
CHEM 3310 Organic Chemistry I	3
One of the following organic chemistry I lab options:	2
CHEM 3330 Organic Chemistry Lab I	
CHEM 3370 Practical Organic Chemistry I	
CHEM 3320 Organic Chemistry II	3
One of the following organic chemistry II lab options:	2
CHEM 3340 Organic Chemistry Lab II	
CHEM 3380 Practical Organic Chemistry II	
CHEM 4170 Analytical Chemistry (also satisfies part of the Reasoning Skills Requirement)	4
CHEM 4500 Biophysical Chemistry or 451 Physical Chemistry I	3
CHEM 4830 Biochemistry Principles	3
CHEM 4050 Topics in Chemistry 1 hour teaching lab	2
Contact Department 3 months prior to taking	

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
PHIL 1000 Intro to Philosophy or PHIL 1020 Ethics or PHIL 1120 Critical Thinking	3
Remaining hours from approved LAS General Humanities list	6
Natural Science Area Requirement	
BIOL 1210 General Biology II: Intro to Cell (Prereq: BIOL 1200 or consent of instructor)	4
GEOL 1010 Physical Geology	4
PES 1010 Physics for Life Science I	4
PES 1150 General Physics I Lab	1
Social Science Area Requirement	
PSY 1000 General Psychology	3
Remaining hours from approved LAS Social Science list	8
Composition Requirement	
ENGL 1310 Rhetoric and Writing I	3
ENGL 1410 Rhetoric and Writing II	3
Reasoning Skills Requirement	
MATH 1350 Calculus I and 1360 Calculus II	8
<u>Other Requirements for Secondary Science Certification:</u>	
PES 1020 Physics for Life Science II	4
PES 2150 Physics Laboratory II	1
PES 1050 or 1060 General Astronomy I or II	3
<u>UCCS Teach Program</u> (See Education Advisor for specific courses)	30

TOTAL CREDITS

120

(OVER)

Secondary Education at UCCS

“Pre-Education” is a direction, not a major.

If you intend to teach secondary school (7-12), this important information applies to you.

1. Begin by taking general education classes your freshman and sophomore years. A cumulative GPA of 2.5 or above is required in all general education, major and elective courses. A “B-“ or above is required in all education courses.
 2. Meanwhile, select your major according to the content area you intend to teach:
English – major in English
Mathematics – major in Mathematics (BA through the College of Engineering)
Natural Science – major in Biology, Chemistry or Physics
Social Studies – major in History
Spanish – major in Spanish
 3. Declare your major with a Secondary Education emphasis in the Student Success Center, Main Hall, 2nd Floor. If you would like to discuss major options or decide to change to elementary or special education (7-12), please see an advisor at the same location.
 4. Attend a group advising session, presented by the College of Education, to discuss admission criteria and deadlines for the various teaching programs. Call (719) 255-4996 for dates and times.
 5. During your Freshman year, complete UTED 1010 and UTED 1020. These courses will help you decide whether teaching is a good career choice for you, and they are required for application into the teaching program.
 6. Apply to the Teacher Education Program. If you are accepted, you will continue taking courses in general education, plus your major, plus teaching courses.
 7. When you graduate, you will have a bachelor's degree with one of the majors listed above, plus provisional licensure.
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If you select (or already have substantial work toward) a major not listed above, you may finish your bachelor’s degree and then apply to the post-baccalaureate track of the teaching licensure program. However, this will require a year of study beyond the bachelor’s degree. In addition, you may be required to take extra undergraduate courses to meet Colorado’s content standards.