

# Chemistry B.A., with Secondary Science Licensure

You must meet with an education advisor regarding admission into the teacher education program  
303-556-2610 Science Building 321

Catalog 09-10

This sheet applies to the 2009-2010 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors *must* work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

General Studies	38
Major courses	58-63
Licensure/minor	28
<b>Total to graduate (min. 40 hrs. upper division)</b>	<b>124-129 min.</b>

Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.

## GENERAL STUDIES

### Composition

___ ENG1010-3	Freshman Comp: the Essay
___ ENG1020-3	Freshman Comp: Anal., Rsrch & Docu

### Mathematics

___ MTH 1410-4	Calculus I
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### Communications

___ SPE 1010-3	Public Speaking
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### Historical

___ -3	
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### Arts & Letters

___ -3	
___ -3	

### Social Sciences (counted as GS)

___ EDS 3130-3	Foundations of Educational Psych.& Philosophy
___ EDS 3150-3	Issues in Multicultural Education in Urban Secondary Schools

### Natural Sciences

___ -5 PHY 2010 & 2030	College Physics I & Lab
___ -5 PHY 2020 & 2040	College Physics II & Lab

### Multicultural Requirement:

(may be satisfied within General Studies, major, minor or elective)

___ EDS 3150-3	Issues in Multicultural Education in Urban Secondary Schools
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## MAJOR COURSES

### Chemistry Core:

___ CHE 1800-4	General Chemistry I
___ CHE 1810-4	General Chemistry II
___ CHE 1850-2	General Chemistry Laboratory
___ CHE 3000-3	Analytical Chemistry
___ CHE 3010-2	Analytical Chemistry Laboratory
___ CHE 3100-4	Organic Chemistry I
___ CHE 3110-3	Organic Chemistry II
___ CHE 3120-2	Organic Chemistry I Laboratory
___ CHE 3130-2	Organic Chemistry II Laboratory
___ CHE 3190-4	Survey of Physical Chemistry
___ CHE 3200-1	Survey of Physical Chemistry Lab
___ CHE 4310-4	Biochemistry I
___ CHE 4350-1	Biochemistry Lab

### Additional Requirements:

___ BIO 1080-3	General Biology I
___ BIO 1090-1	General Biology Laboratory I
___ BIO 1081-3	General Biology II
___ BIO 1091-1	General Biology Laboratory II
___ ENV1200-3	Introduction to Environmental Science
___ GEG1100-3	Introduction to Physical Geography
<b>or</b>	
___ GEL 1010-4	General Geology <b>and</b> MTR 2400-4
___ GEL 1030-4	Historical Geology
___ SCI 3950-3	Methods of Teaching Science
___ SCI 3960-1	Field Experience in Teaching Science in Secondary Schools

### MINOR/SECONDARY SOCIAL STUDIES LICENSURE (OVER)

See Teacher Education advisor

To get a schedule of information meetings for prospective education students, please stop by WC 136 or call the Teacher Application Center at 303-556-3691.

## **Secondary Education Required Courses**

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EDS 3130 – 3 hours	Foundations of Educational Psychology and Philosophy (GS Social Sciences, General Studies)
EDS 3140 – 3 hours	First Field Experience in Secondary Education
EDS 3150 – 3 hours	Issues in Multicultural Education in Urban Secondary Schools (GS Social Sciences & Multicultural)
EDS 3210 – 3 hours**	Standards-Based Curriculum, Assessment, & Classroom Management in the Secondary School
EDT 3610 – 2 hours	Applications of Educational Technology
RDG 3280 – 4 hours	Teaching Literacy Skill Development in the Content Areas
SED 3600 – 3 hours	The Exceptional Learner in the Classroom
EDS 4290 – 6-12 hours	Student Teaching and Seminar: Secondary 7-12 (MTH candidates take MTL 4690-12)

\*These two courses must be taken concurrently.

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For each approved major there is a program plan, which includes a list of required education and content area courses. See a content advisor to determine content major requirements and an education advisor to determine program requirements that must be met prior to application for student teaching. This includes a Methods of Teaching the Major course as well.

Note: Content area methods courses in your major may not be offered every semester. Check with your content advisor for a schedule. Professional course work less than 7 years old may be substituted with approval of your licensure advisor.

If you already have a bachelor's degree, you will need to meet with a secondary education faculty advisor to devise a plan to meet content and licensure requirements. Please bring transcripts and course descriptions from previous institutions to aid in this process.

For questions about student teaching, please contact Student Teaching Center, located in West Classroom 141, or call 303-556-2652.