



# SCHOOL OF EDUCATION ADVISING GUIDE

## Environmental Science Major with a Concentration in Secondary Education for Secondary Science Licensure

(For students under the 2011-2012 catalog or earlier)

Name: \_\_\_\_\_ 900#: \_\_\_\_\_



**Use this document** to learn about specific requirements for your major and accompanying teacher licensure courses, and to work with your academic advisors to plan your course of study and track your progress. Please keep an updated copy of this form and leave the original on file in the School of Education Student Services Office.

For general requirements pertaining to Secondary Education licensure, see the Program Overview in the School of Education Student Services Office, WC 162, or online at [www.msudenver.edu/education](http://www.msudenver.edu/education), and **be sure to talk with your advisors.**

**Visit your advisors.** If you major in Environmental Science and seek licensure in Secondary Education, you will have two advisors:

- One in the Department of Environmental Science (in the Earth & Atmospheric Sciences Department)
- One in Secondary Education

**Before you can register for most education courses:**

- Apply to the School of Education.
- Obtain provisional and/or formal admission to the program. Some courses require provisional admission, while most advanced courses require formal admission.

**There are four parts to this program (described in detail below):**

### 1. GENERAL STUDIES COURSES

The following courses meet Colorado content standards for teachers and are the first courses to focus on completing. You need a total of **22 credit hours** from the following list. **All courses required for licensure (notated with a “§” symbol) must be passed with a grade of C or better.**

Course	Substitute Course # / Title / College	Credit Hours	When?	Grade	Advisor Initials
§ ENG 1010-3	Composing Arguments				
§ ENG 1020-3	Freshman Composition II: Analysis, Research & Documentation				
§ SPE 1010-3	Public Speaking				
§ MTH 1400-4	Pre-calculus Mathematics				
HIS XXXX-3	General Studies Historical				
Arts & Letters-6	General Studies Arts and Letters				
Social Science-6	Met by EDS 3130 and EDS 3150*				
Natural Science-6	Met by Licensure Requirements				
<b>GENERAL STUDIES TOTAL</b>		<b>22</b>			

\* Undergraduate Science Licensure students do not declare a minor in Secondary Education. If you declare this minor, you will have to take additional courses to fulfill your Social Science General Studies requirements.

## 2. ENVIRONMENTAL SCIENCE MAJOR COURSES

The following are the core course requirements for your major. Please track progress on your major and other graduation requirements on your CAPP report and **see your Environmental Science advisor regularly**. Your major must be declared with the Secondary Education Concentration (ENV6). **Courses required for licensure (notated with a “§” symbol) must be passed with a grade of C or better**. These content area courses also factor in to your Content Area GPA for student teaching. See [www.msudenver.edu/education](http://www.msudenver.edu/education) for more info.

### ENVIRONMENTAL SCIENCE MAJOR CORE

You need all courses, a total of **23 hours**, from the following list.

Course	Substitute Course	Credits	When?	Grade
GEG 1220-2	Map Use			
§ MTH 1210-4	Introduction to Statistics			
§ GIS 2250-3	Introduction to Geographic Information Systems			
§ ENV 3400-3	Water Resources			
ENV 3540-2	Advanced Geologic & Environmental Hazards: Denver			
ENV 4000-3	Environmental Geology			
GEL 3150-3	Hydrogeology			
§ ENV 4960-3	Global Environmental Challenges ( <i>Senior Experience</i> )			
<b>ENVIRONMENTAL SCIENCE CORE COURSES TOTAL</b>		<b>23</b>		

## 3. ADDITIONAL COURSES REQUIRED FOR SCIENCE LICENSURE

All courses in the following list (**31-36 credit hours total**) are required for Science licensure. **Courses required for licensure (notated with a “§” symbol) must be passed with a grade of C or better**. These content area courses also factor in to your Content Area GPA for student teaching. See [www.msudenver.edu/education](http://www.msudenver.edu/education) for more info.

Course	Substitute Course # / Title / College	Credit Hours	When?	Grade	Advisor Initials
<b>Biology (8 hours)</b>					
§ BIO 1080-3	General Biology I				
§ BIO 1090-1	General Biology I Laboratory				
§ BIO 1081-3	General Biology II				
§ BIO 1091-1	General Biology II Laboratory				
<b>Chemistry (10 hours)</b>					
§ CHE 1100-4	Principles of Chemistry				
§ CHE 1150-1	Principles of Chemistry Laboratory				
§ CHE 2100-5	Introduction to Organic and Biological Chemistry				
<b>Physics (10 hours required)</b>					
§ PHY 2010-4	College Physics I				
§ PHY 2020-4	College Physics II				
§ PHY 2030-1	College Physics I Laboratory				
§ PHY 2040-1	College Physics II Laboratory				
<b>Earth Space Science (12 hours)</b>					
§ GEL 1010-4	Physical Geology				
§ GEL 1030-4	Historical Geology				
§ MTR 2400-4	Introduction to Atmospheric Science				
<b>Environmental Science (3 hours)</b>					
§ ENV 1200-3	Intro to Environmental Science				
<b>ADDITIONAL COURSES TOTAL</b>		<b>43</b>			

#### 4. TEACHER EDUCATION COURSES

All the courses in the following list (34-35 credit hours total) are required for Science licensure. Courses listed with heavy outlines must be taken together; please see an advisor in the School of Education for more detail on recommended sequence. All letter-graded courses required for licensure (notated with a “§” symbol) must be passed with a grade of C or better. You should complete your General Studies and at least half of your major and additional content area course (Part 3) before beginning Education courses.

Course	Substitute Course # / Title / College	Credit Hours	When?	Grade	Advisor Initials
§ EDS 3130-4*	Foundation of Educational Psychology and Philosophy				
EDS 3140-1*	First Field Experience in Secondary Education (60-hour field experience)				
§ EDS 3150-3	Issues in Multicultural Education in Secondary Schools <i>(Meets multicultural requirement for graduation. Must be taken concurrently with or after completion of EDS 3130 and EDS 3140)</i>				
§ EDT 3610-2 Or § EDT 3010-3	Applications of Educational Technology Or Integrating Educational Technology into Teaching				
§ SED 3600-3	The Exceptional Learner in the Classroom				
§ EDS 3210-3**	Classroom Management, Planning, and Assessment in Secondary Schools				
EDS 3240-1**	Field Experience: Classroom Management, Planning, and Assessment in Secondary Schools (60-hour field experience)				
§ RDG 3280-4**	Teaching Content Literacy Skills <i>(you must complete at least one field experience before taking this class)</i>				
§ SCI 3950-3	Teaching Science in Secondary Schools <i>(Beginning Fall 2016, this course will be offered spring and fall semesters. Offered fall only until then.)</i>				
SCI 3960-1**	Field Experience in Teaching Science in Secondary Schools (60 hours; must be taken concurrently with SCI 3950) <i>(Beginning Fall 2016, this course will be offered spring and fall semesters. Offered fall only until then.)</i>				
EDS 4290-12**	Student Teaching and Seminar: Secondary 7-12				
<b>TEACHER EDUCATION COURSES TOTAL</b>		<b>37-38</b>			

\* Requires at least provisional admission to the teacher licensure program.

\*\* Requires formal admission to the teacher licensure program.

**GRAND TOTAL FOR PROGRAM**

**125 - 126 CREDIT HOURS**

Before you begin student teaching, you will need your education advisor's initials for all courses (except the courses in your major area) and signature below.

Based on my review, this student is eligible to apply for student teaching.

SIGNATURE OF EDUCATION ADVISOR: \_\_\_\_\_ Date \_\_\_\_\_

Please see the School of Education website for updated licensure exam requirements for Secondary Science Education.