



SCHOOL OF EDUCATION ADVISING GUIDE

Environmental Science Major with a Concentration in Secondary Education for Secondary Science Licensure (Fall 2012 through Fall 2015 catalog years)

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, 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 Science 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 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 and Humanities - 6 credits*	General Studies Arts & Humanities*				
Social & Behavioral Sciences - 6 credits	<i>(met by EDS 3130 and EDS 3150)**</i>				
Natural & Physical Science - 6 credits	<i>(met by content area requirements)</i>				
GENERAL STUDIES TOTAL		22			

* We recommend that you select at least one course that meets the Global Diversity requirement. Otherwise, you may have to satisfy the Global Diversity requirement by taking additional coursework.

** 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). Your content area GPA must be a 2.75 or better to be accepted for student teaching.

ENVIRONMENTAL SCIENCE MAJOR CORE

You need all courses, a total of **24 hours**, from the following list.

Course		"Met" On CAPP Report?	Course		"Met" On CAPP Report?
GIS 1220-3*	Intro to Geospatial Sciences*	<input type="checkbox"/>	ENV 3540-2	Advanced Geologic & Environmental Hazards: Denver	<input type="checkbox"/>
MTH 1210-4	Introduction to Statistics	<input type="checkbox"/>	AST 1052-4 <i>(was ENV 4000-3)</i>	General Astronomy I <i>(was Environmental Geology)</i>	<input type="checkbox"/>
GIS 2250-3	Introduction to Geographic Information Systems	<input type="checkbox"/>	AST 3050-3 <i>(was GEL 3150-3)</i>	General Astronomy II <i>(was Hydrogeology)</i>	<input type="checkbox"/>
ENV3400-3	Water Resources	<input type="checkbox"/>	ENV 4960-3	Global Environmental Challenges <i>(Senior Experience)</i>	<input type="checkbox"/>

ENVIRONMENTAL SCIENCE WITH SECONDARY EDUCATION CONCENTRATION TOTAL: 25 hours

* Prior to the 2015-2016 catalog, this course was GEG 1220 and was 2-credits. Students under prior catalogs can count GEG 1220 here.

The following courses (**43 credit hours total**) are required for Science licensure. **Courses required for licensure must be passed with a grade of C or better. While some of the following courses show up on your CAPP report as part of your major core, substitutions here must be approved by your Teacher Education advisor.**

Course	Substitute Course # / Title / College	Credit Hours	When?	Grade	Advisor Initials
Biology (8 hours)					
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				
Chemistry (10 hours)					
CHE 1100-4	Principles of Chemistry				
CHE 1150-1	Principles of Chemistry Laboratory				
CHE 2100-5	Introduction to Organic and Biological Chemistry				
Physics (10 hours required)					
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				
Earth Space Science (11 hours)					
GEL 1030-4	Historical Geology				
GEL 1010-4	Physical Geology				
MTR 1600-3	Global Climate Change				
Environmental Science (3 hours)					
ENV 1200-3	Intro to Environmental Science				
ADDITIONAL COURSES TOTAL		42			

3. TEACHER EDUCATION COURSES

All the courses in the following list (37-38 credit hours total) are required for Secondary Education licensure. Courses listed with heavy outlines must be taken together; please see a School of Education advisor for more detail on recommended sequence. Courses required for licensure 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 courses before starting on the Teacher 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 <i>(60 hours; must be taken concurrently with SCI 3950) (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				
TEACHER EDUCATION COURSES TOTAL		37-38			

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

** Requires formal admission to the teacher licensure program.

GRAND TOTAL FOR PROGRAM

126-127 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 ADVISOR: _____

DATE: _____

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