



**DEGREE WORKSHEET FOR:**  
**BS Earth Sciences, Secondary Teaching Emphasis**  
**2016-2017 Catalog**  
**Degree Requirements – 121 credits**

<b>YEAR 1- FALL (15 credits)</b>		<b>YEAR 1- SPRING (15 credits)</b>	
GEOL 201 Physical Geology	4 credits	GEOL 202 Historical Geology*S	4 credits
BIO 110 Principles of Biology (LAC Area 6)	4 credits	BIO 111 Organismal Biology	4 credits
MET 205 General Meteorology (LAC Area 6)	4 credits	MATH 124 College Algebra (LAC Area 2)	4 credits
Liberal Arts Core <sup>1</sup>	3 credits	MET 452 Paleoclimatology*S	3 credits
<b>YEAR 2- FALL (15 credits)</b>		<b>YEAR 2-SPRING (14 credits)</b>	
CHEM 111 Principles of Chemistry I (LAC Area 6)	4 credits	CHEM 112 Principles of Chemistry II	4 credits
CHEM 111 Principles of Chemistry I Lab (LAC Area 6)	1 credit	CHEM 112 Principles of Chemistry II Lab	1 credit
OCN 301 Physical & Chemical Oceanography*F	4 credits	OCN 302 Geological & Biological Oceanography*S	4 credits
GEOL 390 Colorado Geology	3 credits	EDF 366 Concepts of Schooling	3 credits
Liberal Arts Core <sup>1</sup>	3 credits	STEP 161 Observation & Analysis Secondary Teaching I	2 credits
EDFE 110 Initial PTEP Application	0 credits		
<b>YEAR 3- FALL (16 credits)</b>		<b>YEAR 3- SPRING (17 credits)</b>	
AST 301 Classical Astronomy*F	3 credits	PHYS 221 Introductory Physics II*S	5 credits
PHYS 220 Introductory Physics I (LAC Area 6)*F	5 credits	AST 302 Modern Astronomy*S	3 credits
STEP 262 Observation & Analysis of Sec. Teaching II	2 credits	Liberal Arts Core <sup>1</sup>	8 credits
EDSE 360 Adaptation/Modification & Integration	3 credits	SCED 440 Strategies in Teaching Sec. Science	1 credit
PSY 349 Ed. Psychology for Secondary Teachers	3 credits		
EDFE 120 Full Admission to PTEP Application	0 credits		
<b>YEAR 4- FALL (15 credits)</b>		<b>YEAR 4- SPRING (14 credits)</b>	
SCED 441 Methods of Teaching Sec. School Science	3 credits	STEP 464 Secondary Student Teaching	14 credits
STEP 363 Clinical Experience-Secondary	2 credits		
EDRD 340 Developing Language & Literacy	3 credits		
Liberal Arts Core <sup>1</sup>	7 credits		
EDFE 130 Student Teaching Application	0 credits		

**Admission Requirement.** Departmental Requirements for admission to PTEP:

- a. Students will make formal application and complete admission requirements while enrolled in STEP 161.
- b. Student must have at least a 2.50 GPA in content courses.

**Minor Required-No minor required.**

**Notes – see page 2.**

**Contact Information –Department of Earth and Atmospheric Sciences**

**Ross Hall Room 3235, 970-351-2647**

**Program Web Page: <http://esci.unco.edu/>**

## BS Earth Sciences, Secondary Teaching Emphasis (cont.)

This worksheet is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; have at least 40 credit hours in courses designated as Liberal Arts Core; meet all degree requirements in the student's major field of study. Each major and/or emphasis may have additional requirements necessary for graduation. **Students must consult with their major advisor to receive information on any additional graduation requirements.**

### Notes

- 1 Students need Liberal Arts Core courses in the following areas to meet requirements  
Area 1: 6 credits      Area 2: none      Area 3: 6 - 9 credits\*      Area 4: 3 credits  
Area 5: 3 - 6 credits\*      Area 6: none      Area 7: 3 credits\*      Area 8: 3 credits\*  
\*Some Area 7 and Area 8 can also be used for Areas 3 or 5.
- 2 EDFE 110 Initial PTEP Application (Prerequisite: Sophomore status). Submit to STE office in one package: Fingerprint card, current TB test results, Oath and Consent Form, and major content advisor approval form.
- 3 EDFE 120 Full Admission to PTEP Application (Prerequisite: EDFE 110). Submit to STE office in one package: current TB results, proof of oral/written proficiency, proof of registration for PLACE or PRAXIS, and major content advisor approval form.
- 4 EDFE 130 Student Teaching Application (Prerequisite: EDFE 120 or EDFE 125). Submit to STE office in one package: current TB test results, PLACE or PRAXIS exam results and complete on-line Request for placement. Subject to approval by major content advisor.
- 5 No more than 8 credit hours of AST, ESCI, GEOL, MET, and OCN courses numbered below 200 may be counted toward the major.
- 6 A grade point average of 2.5 in the major content courses is required to receive approval for admission to the Professional Teacher Education Program, for eligibility to student teach, and for graduation.

The coursework and experiences in this major are designed to provide the student with a broad background in the four earth science disciplines (astronomy, geology, meteorology, and oceanography) and supporting sciences, including biology, chemistry, physics and mathematics.

Graduates of this program are prepared to teach earth science in grades 7-12. Graduates will have satisfied all the requirements to receive Secondary Science Licensure from the Colorado Department of Education and the Colorado Commission on Higher Education.