



DEGREE WORKSHEET FOR:
BS Earth Sciences, Secondary Teaching Emphasis
2019-2020 Catalog
Degree Requirements – 121 credits

YEAR 1- FALL (15 credits)		YEAR 1- SPRING (15 credits)	
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 ¹	3 credits	MET 452 Paleoclimatology*S	3 credits
YEAR 2- FALL (15 credits)		YEAR 2-SPRING (14 credits)	
CHEM111 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 ¹	6 credits	STEP 161 Observation & Analysis Secondary Teaching I	2 credits
YEAR 3- FALL (16 credits)		YEAR 3- SPRING (17 credits)	
GEOL 390 Colorado Geology*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	MET 452 Paleoclimatology*S	3 credits
EDSE 360 Adaptation/Modification & Integration	3 credits	SCED 440 Strategies in Teaching Sec. Science	1 credit
PSY 349 Ed. Psychology for Secondary Teachers ED	3 credits	Liberal Arts Core ¹	5 credits
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (14 credits)	
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		
AST 301 Classical Astronomy*F	3 credits		
Liberal Arts Core ¹	4 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:// www.unco.edu/nhs/earth-atmospheric-sciences/](http://www.unco.edu/nhs/earth-atmospheric-sciences/)

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 Please refer to 2018-2019 Undergraduate Catalog for PTEP requirements (Professional Teacher Education Program).
- 3 No more than 8 credit hours of AST, ESCI, GEOL, MET, and OCN courses numbered below 200 may be counted toward the major.
- 4 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.