



**DEGREE WORKSHEET FOR:  
BS Earth Sciences, Environmental Emphasis  
2016-2017 Catalog  
Degree Requirements – 120 credits**

YEAR 1- FALL (15 credits)		YEAR 1- SPRING (16 credits)	
GEOL 201 Physical Geology	4 credits	GEOL 202 Historical Geology	4 credits
MATH 131 Calculus I (LAC Area 2)	4 credits	ECON 205 Principles of Microecon. (LAC Area 5a)	3 credits
ENG 122 College Composition (LAC Area 1a)	3 credits	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	9 credits
ESCI 200 Intro to Environmental Earth Sci (LAC Area 6)	4 credits		
YEAR 2- FALL (15 credits)		YEAR 2-SPRING (14 credits)	
OCN 301 Phys. & Chem. Oceanography	4 credits	MET 205 General Meteorology (LAC Area 6)	4 credits
BIO 110 Principles of Biology (LAC Area 6)	4 credits	BIO 111 Survey of Organismal Biology	4 credits
GEOL 320 Mineralogy	4 credits	GEOG 210 Intro GIS and GPS	3 credits
Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	3 credits	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	3 credits
YEAR 3- FALL (14 credits)		YEAR 3- SPRING (16 credits)	
CHEM 111 Principles of Chemistry 1 (LAC Area 6)	4 credits	GEOL 460 Geomorphology (even years)	3 credits
CHEM 111 Principles of Chemistry 1 Lab (LAC Area 6)	1 credit	GEOL 410 Groundwater Geology (even years)	3 credits
STAT 150 Intro. to Statistics (LAC Area 2)	3 credits	CHEM 112 Principles of Chemistry II	4 credits
SCI 291 Scientific Writing (LAC Area 1b)	3 credits	CHEM 112 Principles of Chemistry II Lab	1 credits
Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	3 credits	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	5 credits
YEAR 4- FALL (15 credits)		YEAR 4- SPRING (15 credits)	
BIO 360 Ecology	4 credits	MET 452 Paleoclimatology	3 credits
GEOL 390 Colorado Geology	3 credits	Program Electives <sup>3</sup>	6 credits
Program Electives <sup>3</sup>	8 credits	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	5 credits

**Admission Requirement – No separate admission requirement.**

**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>**

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.**

## BS Earth Sciences, Environmental Emphasis (cont.)

### Notes

- 1 <sup>1</sup>Students need additional Liberal Arts Core courses in the following areas to meet requirements:  
Area 1: None                      Area 2: None                      Area 3: 6-9 credits\*                      Area 4: 3 credits  
Area 5: 0-3 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 <sup>2</sup>You need to complete 20 credits of University-wide Electives.
- 3 <sup>3</sup>Earth Sciences electives – you must choose 14 credits of which two courses must be from earth sciences. You may choose from:
  - a. Earth Sciences: ESCI 492 (1-15 credits), ESCI 474 (3 credits), ESCI 494 (1-15 credits), GEOL 415 (3 credits), GEOL 340 (4 credits), GEOL 450 (4 credits), GEOL 464 (3 credits), GEOL 483 (3 credits), GEOL 486 (3 credits), or OCN 302 (4 credits).
  - b. Supporting Discipline Credits: CHEM 360 (2 credits), ECON 356 (3 credits), ENST 335 (3 credits), ENST 355 (3 credits), GEOG 307 (3 credits), or GEOG 315 (3 credits).
- 4 No more than 8 credit hours of AST, ESCI, GEOL, MET, and OCN courses numbered below 200 may be counted toward the major.
- 5 Upper-level courses are generally taught only one semester per year (and some every other year) and are listed on the planning sheet in the semester they are generally offered. In this plan courses are listed in order of required prerequisites first.
- 6 Science and mathematics courses approved for the Liberal Arts Core that are taken as part of this major may also be used to satisfy Liberal Arts Core requirements.
- 7 A 2.0 grade point average in the courses taken as part of this major is required for graduation.

The multidisciplinary Environmental Earth Sciences emphasis is intended for individuals who wish to pursue careers with responsibilities that include environmental monitoring, regulation or management. Students may prepare for entry-level positions in environmental industry or governmental agencies, or for graduate education in such fields as resource management, environmental public policy and environmental law. The program also is well suited for anyone with a serious interest in the scientific aspect of environmental issues.