



# DEGREE WORKSHEET FOR: BS Earth Sciences, Meteorology Emphasis 2019-2020 Catalog Degree Requirements – 120 credits

YEAR 1- FALL (14 credits)		YEAR 1- SPRING (14 credits)	
ENG 122 College Composition (LAC Area 1a)	3 credits	MET 215 Intro. to Meteorological Analysis	2 credits
MET 205 General Meteorology (LAC Area 6)	4 credits	MATH 132 Calculus II (LAC Area 2)	4 credits
MATH 131 Calculus I (LAC Area 2)	4 credits	CHEM 111 Principles of Chemistry I (LAC Area 6)	4 credits
CS 101 Intro to Computer Science (LAC Elective)	3 credits	CHEM 111 Principles of Chemistry I Lab (LAC Area 6)	1 credit
		Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	3 credits
YEAR 2- FALL (16 credits)		YEAR 2-SPRING (14 credits)	
PHYS 240 General Physics I (LAC Area 6)	5 credits	MET 320 Physical Meteorology II	3 credits
MATH 233 Calculus III	4 credits	PHYS 241 General Physics II	5 credits
MET 221 Weather Forecasting Seminar	1 credit	CS 120 Structured Programming	3 credits
MET 315 Physical Meteorology I	3 credits	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	3 credits
SCI 291 Scientific Writing (LAC Area 1)	3 credits		
YEAR 3- FALL (15 credits)		YEAR 3- SPRING (16 credits)	
MET 401 Dynamic Meteorology	3 credits	MET 402 Synoptic Meteorology	4 credits
MATH 335 Differential Equations I <sup>4</sup> or elective	3 credits	ESCI 330 ESCI Statistical Analysis	3 credits
MET Elective <sup>3</sup>	3 credits	MET Elective <sup>3</sup>	3 credits
ESCI 349 ESCI Professional Seminar	1 credit	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	6 credits
Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	5 credits		
YEAR 4- FALL (16 credits)		YEAR 4- SPRING (15 credits)	
MET 451 Climatology	3 credits	MET 460 Mesoscale Meteorology	4 credits
MET 420 Adv. Forecasting & Prediction	4 credits	MET Elective <sup>3</sup>	3 credits
MET 221 Weather Forecasting Seminar	1 credit	Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	8 credits
Liberal Arts Core <sup>1</sup> /Electives <sup>2</sup>	8 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, Meteorology Emphasis (cont.)

### Notes

- <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: 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
- <sup>2</sup>You need to complete 21 credits of University-wide Electives.
- <sup>3</sup>Meteorology electives –choose 9 credits from the following courses: MET 452 (3 credits), MET 462 (3 credits), MET 465 (3 credits), MET 495 (1-4 credits), OCN 301 (4 credits), or ESCI 474 (3 credits).
- <sup>4</sup>Federal government requirements for employment as meteorologists and Graduate School admission in the atmospheric sciences usually require MATH 335.
- These requirements assure that our graduates meet all of the requirements for certification with the American Meteorological Society (AMS), and the National Weather Association (NWA).
- No more than 8 credit hours of AST, ESCI, GEOL, MET, and OCN courses numbered below 200 may be counted toward the major.
- A 2.0 grade point average in the courses taken as part of this major is required for graduation.

The UNC meteorology program has two goals: a strong foundation in the sciences preparing students for graduate school and providing the experience necessary to be ready to take a job in weather forecasting.

The science of meteorology seeks to understand the atmosphere and its phenomena by considering the forces that act on it, the processes that determine its behavior and the interaction between it and the earth beneath. This program provides a broad background in meteorology and stresses practical interpretation of weather data and the importance of meteorology to many aspects of human endeavor.

Graduates of the meteorology program will be prepared for entry-level positions as meteorologists with government agencies and private companies, as weather forecasters with the United States Air Force and as team members with firms concerned with environmental monitoring. Meteorology is also an excellent major for individuals planning careers in either civilian or military aviation. The program provides the background necessary for admission to graduate programs in the atmospheric sciences.