

## PROGRAM SUMMARY

- **Credit Hours:** 120 hours
- **Concentrations:** No
- **Declaring the Major:** GPA requirements, pre-requisite courses, application deadlines, pre-enrollment advising etc. Students may declare the major at any time before graduation.
- **Advising (For the Major):** Each major is assigned an advisor from within the department. Majors will meet with this advisor before each subsequent semester to define the most advantageous course schedule for the student. An advising hold will be in place until the student completes their advising meeting, at which time it will be removed for registration.
- **Advising (For General Education):** General Education course advising can be done within the department by your major advisor.
- **Minimum Grades/GPA:** minimum GPA is 2.0
- **Teacher Licensure:** No. Only in B.A. in Environmental Studies. Students preparing to teach high school earth science may become licensed by earning the B.A. in Environmental Studies degree with the Secondary Teaching Option. Licensure applications are the responsibility of the student and the Office of Student Academic Services in the College of Education.
- **Evening Classes Available:** No
- **Weekend Classes Available:** No
- **Other Information:** GEO (Geology & Earth Science Organization); GTU (Gamma Theta Upsilon, which is an international honor society in geography); STORM (Student Organization of Meteorology).
- **Contact(s):** Mr. Jake Armour, undergraduate coordinator for ESCI/GEOL, [jarmour@uncc.edu](mailto:jarmour@uncc.edu); Ms. Jamie Strickland, undergraduate coordinator for GEOG, [jstrickl@uncc.edu](mailto:jstrickl@uncc.edu); Mr. Terry Shirley, undergraduate coordinator for METR, [trshirle@uncc.edu](mailto:trshirle@uncc.edu)

## PROGRAM REQUIREMENTS

Meteorology is a discipline in the sciences devoted to increasing our understanding of the atmosphere and the development of methods for applying that knowledge to practical problems. Although this field is usually associated with weather prediction and broadcasting, it also has significant ties to environmental, agricultural, oceanic, and hydrological sciences. For students wishing to pursue many of these areas, a degree in meteorology from UNC Charlotte is the path for you!

A degree in meteorology from UNC Charlotte will combine a foundation of courses in mathematics, chemistry, physics and earth science, with a core of meteorology courses in applied and theoretical topics and a choice of elective courses offering specialized training. Students graduate with the skills and experience they need for professional employment within industry, private consulting firms, television, government, and the armed forces or for further study toward graduate degrees.

Extracurricular experiences are important components of the meteorology program at UNC Charlotte. Our students hold internships at local TV stations and local NWS offices, are also involved in atmospheric research and field work in the subjects of air quality, computer weather modeling, and tropical storm forecasting. In addition, students at UNC Charlotte participate in the WxCHALLENGE national collegiate forecasting contest, biweekly forecasts for the Niner newspaper, forecasting for UNCC sports teams, and opportunities to go on field trips and to attend national conferences. Also available to students is participation in the **STudent ORganization of Meteorology (STORM)**, an official student chapter of the American Meteorological Society (AMS), which is aimed to help students network with meteorology professionals in the surrounding area and around the country.

<b>Areas</b>	<b>Credit Hours</b>	<b>Description</b>
<b>Pre-Major/ Prerequisites</b>	-	
<b>Major</b>	44	35 hours of required departmental courses and 9 hours of restrictive elective courses
<b>General Education</b> <i>(not satisfied by other major requirements)</i>	37-43	Hours do not include those requirements which are satisfied within the major.
<b>Related Work</b>	27	Courses in CHEM, MATH, PHYS, and STAT
<b>Foreign Language</b>	0-8	Foreign language: Proficiency at the introductory level (1202) by coursework, placement test, or high school coursework.
<b>Electives</b>	0-12	As needed to complete 120 hours total.
<b>Total Credit Hours</b>	120	

## SUGGESTED PLAN OF STUDY – B.S. IN METEOROLOGY

### Freshman Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
MATH 1241	Calculus I	3	X		
ESCI 1101 +L	Earth Science + Lab	4	X		
CHEM 1251	Chemistry I	3	X		
CHEM 1251L	Chemistry I lab	1			
UWRT 1101	Writing and Inquiry in Academic Contexts I	3	X		
<i>Spring Semester</i>					
MATH 1242	Calculus II	3	X		
PHYS 2101 + L	Physics I + Lab	4			
UWRT 1102	Writing and Inquiry in Academic Contexts II	3	X		
LBST 11xx	Arts and Society Elective	3	X		
LBST 2101	Western Culture and History	3	X		

30 Credit Hours for Year

### Sophomore Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
METR 3140	Weather and Climate	3			
MATH 2241	Calculus III	3			
PHYS 2102 +L	Physics II +Lab	4			
ESCI 3101	Global Environmental Change	3			
<i>Spring Semester</i>					
METR 3210	Atmospheric Thermodynamics	3			
MATH 2171	Differential Equations	3			
METR 4105	Meteorological Computer Apps	3			
Social Sci.	Social Science Elective for General Education Requirement	3	X		
LBST 2102	Global Connections	3			

28 Credit Hours for Year

### Junior Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
METR 3220	Physical Meteorology	3			
METR 3245	Synoptic Meteorology	4			
STAT 2122	Statistics	3			
FORL 1201	Foreign Language (or proficiency)	4			
XXXX XXXX	General Elective	2			
<i>Spring Semester</i>					
METR 3250	Dynamic Meteorology	3			
METR elective	Major Elective	3			
METR 4205	Climate Dynamics	3			
LBST 22xx	Liberal Studies Elective	3	X		
FORL 1202	Foreign Language (or proficiency)	4			

32 Credit Hours for Year

### Senior Year

Course Number	Course Title	Credit Hours	General Education	W/O Course	Notes
<i>Fall Semester</i>					
METR 4245	Advanced Synoptic Meteorology	3			
METR 4250	Advanced Dynamic Meteorology	3			
METR elective	Major Elective	3			
GEOG 3215	In Major Writing (W) Elective (GEOG 3215 or METR 4150)	3	X	W	
XXXX XXXX	General Elective	3			
<i>Spring Semester</i>					
METR elective	Major Elective	3			
XXXX XXXX	Writing (W) Elective	3	X	W	
ESCI 4600	Oral Communication Elective	1	X	O	
XXXX XXXX	General Elective	4			
XXXX XXXX	General Elective	4			

30 Credit Hours for Year

## ADVISING RESOURCES

- General Education Requirements for ALL Students: [ucol.uncc.edu/general-education](http://ucol.uncc.edu/general-education)
- Undergraduate Catalog: [catalog.uncc.edu](http://catalog.uncc.edu)
- Central Advising website: [advising.uncc.edu](http://advising.uncc.edu)
- College of Liberal Arts & Sciences advising website: [clas.uncc.edu/students/Advising-News/](http://clas.uncc.edu/students/Advising-News/)
- University Advising Center website: [advisingcenter.uncc.edu](http://advisingcenter.uncc.edu)