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 Earth Sciences. Students preparing to teach high school earth science may become licensed by earning the B.A. degree including 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; Ms. Jamie Strickland, undergraduate coordinator for GEOG, jstrickl@uncc.edu; Mr. Terry Shirley, undergraduate coordinator for METR, 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.
<table>
<thead>
<tr>
<th>Areas</th>
<th>Credit Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Major/Prerequisites</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td>70</td>
<td>31 hours of required departmental courses, 9 hours of elective departmental courses, and 30 hours of required extra-departmental courses</td>
</tr>
<tr>
<td>General Education (not satisfied by other major requirements)</td>
<td>28</td>
<td>Hours do not include those requirements which are satisfied within the major.</td>
</tr>
<tr>
<td>Related Work</td>
<td>0</td>
<td>May be satisfied by a second major, a minor, or a set of coordinated courses developed through consultation with an advisor. Specific requirements for the concentration in METR.</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>0-8</td>
<td>Foreign language: Proficiency at the introductory level (1202) by coursework, placement test, or high school coursework.</td>
</tr>
<tr>
<td>Electives</td>
<td>14-22</td>
<td>As needed to complete 120 hours total.</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>
# Suggested Plan of Study – B.S. in Meteorology

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>General Education W/O Course</th>
<th>Notes</th>
</tr>
</thead>
</table>
## Freshman Year
### Fall Semester
- 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

### Spring Semester
- MATH 1242: Calculus II: 3 X
- PHYS 2101 + L: Physics I + Lab: 4
- UWRT: Writing and Inquiry in Academic Contexts II: 3 X
- GEOL 1200 + L: Geology: 4

<table>
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</tr>
</thead>
</table>
## Sophomore Year
### Fall Semester
- METR 3140: Weather and Climate: 3
- MATH 2241: Calculus III: 3
- PHYS 2102 + L: Physics II + Lab: 4
- FORL 1201: Foreign Language (or proficiency): 4

### Spring Semester
- METR 3210: Atmospheric Thermodynamics: 3
- MATH 2171: Differential Equations: 3
- ITCS 1212: Intro Computer Science: 3
- Social Sci.: Social Science Elective for General Education Requirement: 3 X
- FORL 1202: Foreign Language (or proficiency): 4

<table>
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</tr>
</thead>
</table>
## Junior Year
### Fall Semester
- METR 3220: Physical Meteorology: 3
- METR 3245: Synoptic Meteorology: 4
- STAT 2122: Statistics: 3
- LBST 11xx: Arts and Society Elective: 3 X
- LBST 2101: Western Culture and History: 3 X

### Spring Semester
- METR 3250: Dynamic Meteorology: 4
- METR elective: Major Elective: 3
- LBST 2102: Global Connections: 3 X
- LBST 22xx: Liberal Studies Elective: 3 X
- XXXX XXXX: General Elective: 3

<table>
<thead>
<tr>
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<th>Notes</th>
</tr>
</thead>
</table>
## Senior Year
### Fall Semester
- METR 4245: Advanced Synoptic Meteorology: 3
- METR 4250: Advanced Dynamic Meteorology: 3
- METR elective: Major Elective: 3
- METR 4150: In Major Writing (W) Elective: 3 X W
- XXXX XXXX: General Elective: 3

### Spring Semester
- METR elective: Major Elective: 3
- XXXX XXXX: Writing (W) Elective: 3 X W Example: GEOG 3215
- ESCI 4600: Communication Elective: 1 X O
- XXXX XXXX: General Elective: 4
- XXXX XXXX: General Elective: 4

## 28 Credit Hours for Year

## 30 Credit Hours for Year

## 30 Credit Hours for Year

## 32 Credit Hours for Year

## 30 Credit Hours for Year

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