



## METEOROLOGY-CLIMATOLOGY

### Academics

A major in meteorology-climatology opens the door to your future career in the exciting and ever-changing world of weather and climate. The major is comprehensive but flexible so that you can pursue your own interests within the broad field of atmospheric sciences, while meeting the federal government requirements for employment as a meteorologist.

Your core courses will build a solid foundation that combines basic atmospheric science with training in mathematics, computer science and physics. Beyond those, dive deep into elective courses such as Tropical Meteorology, Climate and Society, Broadcast Meteorology, Severe Storms Meteorology and Climatology, and Weather and Climate Impacts.

### Opportunities

With a major in meteorology-climatology you will be prepared for employment with federal agencies such as the National Weather Service, National Aeronautics and Space Administration, Environmental Protection Agency, National Park Service and the military. You can also work in private weather consulting; broadcast meteorology; and the agriculture, education and energy sectors. Here are examples of recent graduates' employment:

- Broadcast Meteorologist / *HOAK MEDIA*
- Coding Specialist / *NATIONAL RESEARCH CORPORATION*
- Meteorologist / *NATIONAL WEATHER SERVICE*
- Meteorologist / *NEBRASKA DEPARTMENT OF ROADS*
- Photo Journalist / *CHANNEL 8 EYEWITNESS NEWS*
- Pilot / *UNITED STATES AIR FORCE*
- Research Associate / *HIGH PLAINS REGIONAL CLIMATE CENTER*
- Systems Engineer / *MITRE CORPORATION*

### Experience

In the College of Arts and Sciences, we know experience is valuable and goes beyond the classroom. We strive to help you connect your academics with research, internships, education abroad, service learning and leadership experiences. Take advantage of opportunities in meteorology and climatology such as:

- Serving as president of the local student chapter of the American Meteorological Society
- Interning with Channel 8 in Lincoln or as a Research Technician with Planetary Data, Inc.
- Researching supercell thunderstorms by radar and drones
- Volunteering with the local National Weather Service office



## METR—SAMPLE 4-YEAR PLAN\*

ACE = Achievement-Centered Education

CDR = College Distribution Requirements

### FIRST SEMESTER

MATH 106: Calculus I (ACE 3)	5
METR 100: Weather & Climate (ACE 4)	4
Written Texts / Research & Knowledge Skills (ACE 1)	3
CDR: Language	3
<b>Total Hours</b>	<b>15</b>

### SECOND SEMESTER

MATH 107: Calculus II	4
PHYS 211 / 221: General Physics I with Lab (CDR)	5
METR 153: Intro to Scientific Programming in Atmospheric Science	3
CDR: Language	3
<b>Total Hours</b>	<b>15</b>

### THIRD SEMESTER

MATH 208: Calculus III	4
METR 205: Introduction to Atmospheric Science	4
PHYS 212: General Physics II	4
JGEN 200: Technical Communication I (ACE 1) (CDR: Written Comm.)	3
<b>Total Hours</b>	<b>15</b>

### FOURTH SEMESTER

MATH 221: Differential Equations	3
METR 223: Atmosphere Thermodynamics	4
CHEM 109A / 109L: General Chemistry I with Lab	4
JGEN 300: Technical Communication II (recommended) (ACE 2)	3
<b>Total Hours</b>	<b>14</b>

### FIFTH SEMESTER

METR 311: Dynamic Meteorology I	3
METR 323: Physical Meteorology	4
STAT 380: Statistics & Applications	3
Humanities (ACE 5)	3
Social Sciences (ACE 6)	3
<b>Total Hours</b>	<b>16</b>

### SIXTH SEMESTER

METR 312: Dynamic Meteorology II	3
METR 341: Synoptic Meteorology	4
METR 463 or 464: Meteorology Remote Sensing Course	3
Ethics / Civics / Stewardship (ACE 8)	3
CDR: Human Diversity in U.S. Communities	3
<b>Total Hours</b>	<b>16</b>

### SEVENTH SEMESTER

Senior Capstone: METR 442: Advanced Synoptic Meteorology-Climatology or METR 470: The Climate System (ACE 10)	4
METR 370: Applied Climatology or Meteorology 400-Level Course	3
Meteorology 400-Level Course	3
Fine Arts (ACE 7)	3
Elective / Minor / Secondary Major / Science / Pre-Professional	1
<b>Total Hours</b>	<b>14</b>

### EIGHTH SEMESTER

METR 370: Applied Climatology or Meteorology 400-Level Course	3
Meteorology 400-Level Course	3
Global Awareness & Human Diversity (ACE 9)	3
CDR: Social Science	3
CDR: Humanities	3
<b>Total Hours</b>	<b>15</b>

\*DISCLAIMER: This document represents a sample 4-year plan for degree completion with a major of interest in the College of Arts and Sciences. Actual course selection and sequence may vary and should be discussed individually with an academic advisor at the college and department level.