

# METEOROLOGY

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Meteorology is the study of the physics, chemistry, and dynamics of the earth's atmosphere and its interaction with the land surface and oceans. It is the underlying science of weather, climate, weather forecasting, climate projection, and their applications to decision-making activities. Fundamental topics include the composition, structure, and forces that govern the motion of the atmosphere.

## About this Program

- **College:** Liberal Arts and Sciences (<http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/>)
- **Degree:** Bachelor of Science
- **Specializations:** Applied Meteorology, Hazards, and Global Change ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET\\_BS/MET\\_BS01/](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET_BS/MET_BS01/)) | Broadcast Meteorology ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET\\_BS/MET\\_BS02/](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET_BS/MET_BS02/)) | General Atmospheric Science ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET\\_BS/MET\\_BS03/](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/MET_BS/MET_BS03/))
- **Credits for Degree:** 120

*To graduate with this major, students must complete all university, college, and major requirements.*

## Department Information

The Geography Department offers a range of topics in contemporary geography and geospatial science, rich and lively cultural and learning environments, BA and BS undergraduate degrees, MA, M.S., and PhD degrees, as well as the largest Medical Geography program in the United States.

**Website** (<https://geog.ufl.edu/>)

### CONTACT

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 Map (<http://campusmap.ufl.edu/#/index/0267>)

### Curriculum

- Combination Degrees
- Geographic Artificial Intelligence and Big Data Certificate
- Geography
- Geography Minor
- Geography Minor UF Online
- Geography UF Online
- Geospatial Information Analysis Certificate
- Medical Geography Certificate
- Medical Geography in Global Health Minor
- Meteorology and Climatology Certificate

A major in Meteorology enables students to know the composition, structure, and motion of the Earth's atmosphere as governed by laws of physics, energy, and chemistry, and to understand its relationship with Earth and human systems. Students will learn how observations, data collection, and prediction are applied in the subfields of meteorology. Computer-based lab assignments teach students how to analyze meteorological information using diagnostic, prognostic, and technological tools and to apply data to solve problems. They will be able to interpret and effectively communicate information using maps, graphs, and/or statistics.

The specializations prepare students for a range of careers. Meteorologists continue to engage in creating weather forecasts and climate projections, communicating those forecasts and projections, and conducting research. Increasingly, a number of private sector industries are looking to meteorologists to improve or create new products and services.

## Specializations

### BS Meteorology | Applied Meteorology, Hazards, and Global Change

This specialization prepares students to pursue careers in the private or nonprofit sectors, applying meteorological knowledge to a range of fields including agriculture, business, climate change consulting, commodities, economics, energy, engineering, entrepreneurship, forensic meteorology, insurance, policy, shipping, etc. Given the wide range of sectors, this specialization is very flexible to provide room for students to take a number of classes in their field of interest in preparation for their career.

## BS Meteorology | General Atmospheric Science

This specialization prepares students to pursue a wide range of careers from public or private sector forecasting to conducting research. This specialization is the most appropriate for students intending to pursue advanced degrees.

## BS Meteorology | Broadcast Meteorology

This specialization prepares students to use meteorological tools involved in forecasting and to communicate that forecast in a broadcast setting. It combines the fundamental meteorology courses with a number of courses from the College of Journalism and Mass Communication.

## Coursework for the Major

The Meteorology major has three different specializations: BS | Meteorology, Applied Meteorology, Hazards, and Global Change; BS Meteorology | General Atmospheric Sciences; and BS | Meteorology, Broadcast Meteorology.

Students in all specializations must complete the following Meteorology Core courses:

### Meteorology Core Courses

Code	Title	Credits
GEO 3250	Climatology	3
MET 1010	Introduction to Weather and Climate	3
MET 3503	Weather and Forecasting	3
MET 4230	Thermodynamics of the Atmosphere	3
MET 4500C	Synoptic Meteorology	4
MET 4410	Radar and Satellite Meteorology	3
MET 4524	Weather Briefing	1
MET 4950	Capstone in Meteorology	1
<b>Total Credits</b>		<b>21</b>