The course of study for the Atmospheric Science certificate provides theoretical and technological competencies that prepare students to measure, analyze, and predict the atmospheric environment. The program enhances basic and applied research capacity at the undergraduate level. A minimum cumulative 2.5 GPA is required for admission. The student must maintain a B average in the certificate courses to remain in the program and receive the Atmospheric Science certificate.

For more information or an application contact the certificate coordinator

**Dr. Hong-Bing Su**
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A minimum of 16 semester hours as follows:

CORE REQUIREMENTS (13 semester hours)

GEOG 1300  Weather and Climate. (4) Introductory survey of meteorology including weather and climate principles, processes, and patterns, at a variety of scales from local to global.

GEOG 3230  Global Climates. (3) Variation in global climates as related to atmospheric circulation patterns and processes.

GEOG 3510  Physical Meteorology. (3) Basic principles of atmospheric hydrostatics, thermodynamics, cloud and precipitation processes, and radiative transfer

GEOG 4510  Meteorological Instruments/Observations. (3) Basic principles of meteorological instruments and measurement techniques; introduction of data

ELECTIVES (3 semester hours)

GEOG 3250  Environmental Hazards.
GEOG 3520  Dynamic Meteorology
GEOG 3550  Principles of Synoptic Meteorology
GEOG 4210  Fluvial and Hydrological Processes.
GEOG 4520  Boundary Layer Meteorology.
GEOG 4525  Dynamic Meteorology II.
GEOG 4530  Micrometeorology.
GEOG 4540  Coastal Storms.
GEOG 4550  Applied Synoptic Meteorology: Analyses and Forecasting
GEOG 4560  Urban Climatology.
GEOG 4570  Hydrometeorology.
GEOG 4580  Radar and Satellite Meteorology