

Fact Sheet for Undergraduates
Atmospheric Science Group - Texas Tech University
www.atmo@ttu.edu

Dr. Colleen A. Leary, Undergraduate Advisor
BA 1207
806-742-3417
e-mail: colleen.leary@ttu.edu

Atmospheric Science is a basic physical science which involves the study of the structure of the atmosphere and the processes which generate storms and other features of weather and climate. As an environmental science, Atmospheric Science is a focal point for research involving environmental quality and air pollution, global climate change, water resources, and severe weather events.

The Atmospheric Science Group at Texas Tech University maintains a strong commitment to both teaching and research in Atmospheric Science. At the undergraduate level, Texas Tech University provides course offerings to meet the General Education Requirements and the needs of students with a variety of levels of interest in Atmospheric Science.

***ATMO 1100. (1:0:2) Atmospheric Science Laboratory**

Discussion and practical experience in weather analysis, methods of instrumentation and observational meteorology.

***ATMO 1300. (3:3:0) Introduction to Atmospheric Science**

An investigation of atmospheric properties and physical processes which determine current weather events and long-term climate conditions. With ATMO 1100, applies to the natural science requirement of the General Education Curriculum.

****ATMO 2301. (3:3:0) Weather, Climate and Human Activities**

Observation and analysis of the impacts of weather and climate on human activity, e.g. storms, climate change, forecasting, weather modification, health, energy, transportation.

ATMO 2316. (3:3:0) Severe and Hazardous Weather

Basic meteorology of severe or hazardous weather forecasting on events affecting the U. S., especially the Great Plains and adjacent regions of Texas.

****ATMO 3301. (3:3:0) General Meteorology**

A basic study of atmospheric processes and the principles which control them.

ATMO 4300. (3:3:0) Independent Studies in Atmospheric Science

Independent studies in atmospheric science. May be repeated once for credit.
Prerequisite: Consent of instructor.

*May be used in fulfilling natural (laboratory) science requirements.

**May be used in fulfilling technology and applied science requirements.

Texas Tech University offers a minor in Atmospheric Science for both B.S. and B.A. students. Please contact the undergraduate advisor for information about departmental, interdisciplinary, and student-initiated minors that might include coursework in Atmospheric Science.

For students interested in pursuing a career in meteorology or atmospheric science, the Atmospheric Science Group provides information and guidance about preparation for graduate programs in Atmospheric Science at Texas Tech University as well as at other institutions. Ongoing research activities in the Atmospheric Science Group also provide research and job opportunities for interested and qualified undergraduate students. Please contact the undergraduate advisor for further information.