The Department of Atmospheric Sciences offers thesis and non-thesis Master of Science as well as Doctor of Philosophy degrees in atmospheric sciences. Students from disciplines other than meteorology are encouraged to enroll in our graduate program. Normal prerequisites are 12 hours of calculus and differential equations and 8 hours of physics. The department offers a basic sequence of courses each year that covers key topics of atmospheric relevance in the areas of fluid dynamics, thermodynamics, cloud physics, radiation, and chemistry. These courses form a base for a large number of the other graduate courses. By the end of their first year, students typically have made arrangements to begin a research project directed by a faculty member. Faculty interests span a wide range extending from field and laboratory work through data analysis, numerical modeling, and theory. Please see the department’s website at http://atmo.tamu.edu for more information. Persons with an MS degree in atmospheric sciences typically obtain employment with government agencies, industrial organizations, and consulting firms, or they may enter the meteorological branch of one of the military services. The PhD degree is normally required for a college level teaching or research career.

The Department of Atmospheric Sciences occupies the upper floors in the 15-story David G. Eller Building for Oceanography and Meteorology. The 10-cm Doppler weather radar on top of the building is a campus landmark, and the department jointly operates two mobile radars. In-house laboratory facilities and fixed and mobile observing suites offer many opportunities for physical and chemical studies of the atmosphere. The department is well-equipped for data analysis and modeling, with a high-speed network, numerous personal computers, teaching laboratories, and high-performance computing systems. Additional computing resources are available at the University’s Supercomputing Facility.

**Faculty**

- **Baule, William**, Research Assistant Professor
  Atmospheric Sciences  
  PhD, Michigan State University, 2022

- **Bowman, Kenneth P**, Professor
  Atmospheric Sciences  
  PhD, Princeton University, 1984

- **Brooks, Sarah D**, Professor
  Atmospheric Sciences  
  PhD, University of Colorado, 2002

- **Conlee, Don T**, Instructional Professor
  Atmospheric Sciences  
  PhD, Texas A&M University, 1994

- **Dessler, Andrew E**, Professor
  Atmospheric Sciences  
  PhD, Harvard University, 1994

- **Epifanio, Craig C**, Associate Professor
  Atmospheric Sciences  
  PhD, University of Washington, 1999

- **Korty, Robert L**, Associate Professor
  Atmospheric Sciences  
  PhD, Massachusetts Institute of Technology, 2005

- **Liu, Xiaohong**, Professor
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  PhD, Nanjing University, China, 1992

- **Logan, Timothy S**, Assistant Professor
  Atmospheric Sciences  
  PhD, University of North Dakota, 2014

- **Nielsen, Erik**, Instructional Assistant Professor
  Atmospheric Sciences  
  PhD, Colorado State University, 2019

- **Nielsen-Gammon, John W**, Regents Professor
  Atmospheric Sciences  
  PhD, Massachusetts Institute of Technology, 1990

- **Nowotarski, Christopher J**, Associate Professor
  Atmospheric Sciences  
  PhD, Pennsylvania State University, 2013

- **Rapp, Anita D**, Assistant Professor
  Atmospheric Sciences  
  PhD, Colorado State University, 2004

- **Saravanan, Ramalingam**, Professor
  Atmospheric Sciences  
  PhD, Colorado State University, 2004

- **Schade, Gunnar W**, Associate Professor
  Atmospheric Sciences  
  PhD, Princeton University, 1990

- **Schumacher, Courtney**, Professor
  Atmospheric Sciences  
  PhD, University of Washington, 2003

- **Szunyogh, Istvan**, Professor
  Atmospheric Sciences  
  PhD, Hungarian Academy of Sciences, 1994

- **Xu, Yangyang**, Assistant Professor
  Atmospheric Sciences  
  PhD, University of California at San Diego, 2014

- **Yang, Ping**, University Distinguished Professor
  Atmospheric Sciences  
  PhD, University of Utah, 1995

- **Zhang, Renyi**, University Distinguished Professor
  Atmospheric Sciences  
  PhD, Massachusetts Institute of Technology, 1994

- **Zhang, Yue**, Assistant Professor
  Atmospheric Sciences  
  PhD, Harvard University, 2010
Masters

• Master of Science in Atmospheric Sciences (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/atmospheric-sciences/ms/)

Doctoral

• Doctor of Philosophy in Atmospheric Sciences (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/atmospheric-sciences/phd/)