## **Atmospheric Sciences**

College of Science, Engineering and Mathematics Atmospheric Sciences Program (907) 474-7608 www.uaf.edu/csem/

## M.S., Ph.D. Degrees

Minimum Requirements for Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

The field of atmospheric science covers a wide variety of disciplines involving the physical and chemical properties and processes of the atmosphere. Emerging trends in atmospheric science stress the interactions of the atmosphere with other components (i.e. land, sea ice, ocean) in the total earth system.

The UAF Geophysical Institute, the International Arctic Research Center and other university research institutes have active research programs in high-latitude atmospheric science that include faculty from the biology, chemistry, physics and other departments. Current research by atmospheric sciences focuses on: atmospheric chemistry/ biogeochemistry, climate modeling, cloud and aerosol physics, mesoscale modeling, numerical weather prediction and aviation weather. In addition, scientists affiliated with the research institutes conduct research on ocean-atmosphere interactions, dynamic meteorology, microclimatology, polar meteorology, radiative transfer, cryosphere-atmosphere interactions and remote sensing.

Graduate students are an integral component of this research, both in the laboratory and the field. Research institutes provide excellent environments for research in atmospheric science as well as interdisciplinary research with scientists in other research areas.

## Graduate Program—M.S. Degree

- 1. Complete the general university requirements (page 166).
- 2. Complete the master's degree requirements (page 170).

3.	Complete the following basic courses in atmospheric sciences:
	ATM 601—Introduction to Atmospheric Science
	ATM 606—Atmospheric Chemistry
	ATM 609—Atmospheric Thermodynamics
	ATM 613—Atmospheric Radiation
	ATM 645—Atmospheric Dynamics
4.	Complete additional approved 600-level courses9
5.	Complete ATM 699—Thesis
6.	Minimum credits required

## Graduate Program—Ph.D. Degree

- 1. Complete the general university requirements (page 166).
- 2. Complete the Ph.D. degree requirements (page 169).

3.	Complete the following basic courses in atmospheric sciences	:
	ATM 601—Introduction to Atmospheric Science	.3
	ATM 606—Atmospheric Chemistry	.3
	ATM 609—Atmospheric Thermodynamics	
	ATM 613—Atmospheric Radiation	
	ATM 645—Atmospheric Dynamics	.3
4.	Complete the additional course requirements determined in conjunction with the graduate advisory committee.	

Note: Page numbers refer to the UAF 2004-2005 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

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