

Welcome from the Atmospheric Science Program! Our program is led by seven faculty members with expertise in atmospheric dynamics, weather analysis and forecasting, cloud physics, air pollution meteorology, tropical and mesoscale meteorology, and chaotic systems.

Your professional development is our top priority!

We offer lots of faculty contact, opportunities for hands-on research, excellent computational facilities, and an array of courses to prepare you for your career.

For More Information

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Atmospheric Science Study Abroad



UWM offers the world's first faculty-led study-abroad program in Atmospheric Science. In this course, you can explore the effects of acid rain on Mexico's cultural heritage sites.

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www.innovativeweather.com



College of Letters & Science

Learn more about the
Atmospheric Science Major



Atmospheric Science Major at the University of Wisconsin – Milwaukee

The study of weather, climate, and their impacts on both Earth and human activities

Atmospheric Science Careers

A career in atmospheric science is very rewarding because of the impact weather and climate have on everyday life. You will find atmospheric scientists in many different roles: nearly 36% work in the private sector; 33% for governmental agencies; 24% at educational institutions or laboratories; and 7% in the media. Increasingly, many jobs within the field require a master's degree (MS) and/or a doctoral degree (PhD).

According to the American Meteorological Society, atmospheric scientists with less than five years of experience have average salaries of \$40,000 to \$50,000, increasing to a median of \$90,000 with experience. Salaries can vary greatly depending upon the type of company.

Coursework

Students who successfully complete the bachelor's degree (BS) in Atmospheric Science are strong in science, technology, and mathematics and have taken a rigorous high school course load to prepare. Thirty-seven preparatory credits and 37 core credits are required for the major. Since many courses in the program build upon each other, interested students should contact a program advisor as early as possible, even while in high school.

Preparatory Credits

- Math 231: Calculus and Analytic Geometry I
- Math 232: Calculus and Analytic Geometry I
- Math 233: Calculus and Analytic Geometry III
- Math 234: Linear Algebra/Differential Equations
- Math 320: Intro to Differential Equations
- Physics 209/214: Physics I with Lab
- Physics 210/215: Physics II with Lab
- Comp Sci 151: Introduction to Scientific Programming in Fortran
- Chem 102: General Chemistry

To expand career opportunities, many students add complementary coursework in computer programming, communication, GIS (geographic information studies), or actuarial science to their plan.

Core Credits

- Atm Sci 240: Intro to Atmospheric Science
- Atm Sci 330: Air Pollution Meteorology
- Atm Sci 350: Atmospheric Thermodynamics
- Atm Sci 351: Dynamic Meteorology I
- Atm Sci 352: Dynamic Meteorology II
- Atm Sci 360: Synoptic Meteorology I
- Atm Sci 361: Synoptic Meteorology II
- Atm Sci 464: Cloud Physics
- Atm Sci 511: Seminar in Atmospheric Radiation and Remote Sensing
- Atm Sci 599: Capstone Experience

You also will choose nine elective credits in a specialized atmospheric area that interests you.

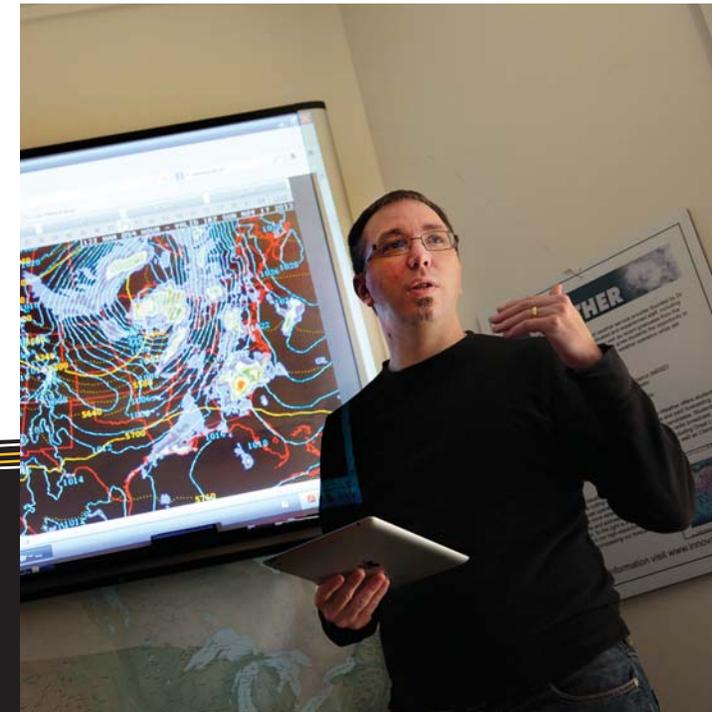
Beyond the Classroom

INNOVATIVE WEATHER

Atmospheric Science students can work with real clients providing forecasts, risk assessments and other weather-related services to the community and business partners across southeastern Wisconsin and the Midwest.



UWM's Atmospheric Science program is home to the Greater Milwaukee chapter of the American Meteorological Society, a local professional organization, and Atmospheric Science Club, comprised of students who share an enthusiasm for the atmospheric sciences.



The Atmospheric Science Program is housed in the Department of Mathematical Sciences. Our Program stresses the development of quantitative thinking as applied to the atmosphere.