Exceptional Faculty

Lee M. Grenci, M.S., and David M. Babb, Ph.D.
— Lead Faculty, College of Earth and Mineral Sciences

If it isn’t enough that our faculty have won such prestigious awards as the 2003 UCEA Meritorious Course Award [METEO 101], just listen to what our students have to say about their online experiences:

“I can’t tell you how much this class has meant to me — [with] your incredible involvement in our learning. I never dreamed an online class could be so personal.”
— Carol, adult learner in environmental sciences

“After telling my editor I took a meteorology class this past semester, he assigned me a weather story that is on the front page of the metro section of the paper where I am working. And the people I interviewed at NWS [National Weather Service] were pleasantly surprised that I knew what I was talking about when I called them — when I told them where I took my class, they commented on [Penn State’s] ‘very respectable’ meteorology program.”
— Renee, journalist

Program Features

- You can enhance your career or degree, or simply follow your passion for weather.
- You will learn from Penn State professors who are national leaders in meteorology education.
- You will enjoy the flexibility and convenience of state-of-the-art online courses.
- You do not need any formal background in calculus or physics to be successful in the program.

Did you know?

Penn State credits and degrees earned through distance education are identical to those earned on campus.

Courses give students the flexibility to complete course work at times and places convenient for them.

Penn State World Campus has enrolled students from all fifty states and all seven continents.

Penn State World Campus
The Pennsylvania State University
128 Outreach Building
University Park, PA 16802

800-252-3592
www.worldcampus.psu.edu
THE ONLINE CERTIFICATE OF ACHIEVEMENT in weather forecasting is a four-course, 12-credit program of study designed to provide students with a working education in meteorology, serving as the bedrock for an apprenticeship in weather forecasting. Enrolling in this online certificate program is a convenient way to enhance your career or degree. It is also a perfect outlet for weather enthusiasts to follow their passion for meteorology.

The program consists of four, 3-credit courses in meteorology that will teach you to apply scientific concepts by using a host of interactive, Web-based tools. In the process, you can become a better consumer of publicly disseminated weather forecasts and other weather-related information. You will also have a chance to have real-time interaction with your instructors.

DELIVERY METHOD

The courses are offered in a time frame comparable to a traditional semester schedule with fixed start and end dates. Students will progress through each course as a group. This common schedule fosters better discussion and integration of course content. The course content and activities are available in electronic format, and access to the Web is required in order to complete this program.

PROGRAM OUTLINE

**METEO 101 Understanding Weather Forecasting** (3 credits)
Fundamental principles of synoptic and physical meteorology, satellite and radar imagery, and data analysis in the setting of midlatitude weather forecasting. Prerequisite: none

**METEO 241 Fundamentals of Tropical Forecasting** (3 credits)
Applying atmospheric principles to the tropics, with an emphasis on the development, structure, prediction, and destructive impact of hurricanes. Prerequisite: METEO 101

**METEO 361 Fundamentals of Mesoscale Weather Forecasting** (3 credits)
Applying atmospheric principles to small-scale weather systems, with an emphasis on the conceptual modeling and short-range prediction of severe thunderstorms. Prerequisite: METEO 101

**METEO 410 Advanced Topics in Weather Forecasting** (3 credits)
Exploring highly specialized topics and techniques in weather forecasting that span mesoscale to planetary special scales and short-term to long-range time scales. Prerequisites: METEO 101, METEO 241, and METEO 361

Costs

Tuition for this certificate program for the 2005–06 academic year is $394 per credit for courses labeled 0–299, and $410 per credit for courses labeled 300–499. Tuition rates are subject to change. An information technology fee of $104 per year is also charged. Some courses require textbooks or other materials. For the most up-to-date information available, visit www.worldcampus.psu.edu/wc/weather/now