

Department of Atmospheric Sciences

COURSE ANNOUNCEMENT – SUMMER SESSION 2 – 2003

ATMOS 100A: Introduction to Meteorology

Call number: 00064

Instructor: Instructor, 111 Atmos. Sci. Bldg., 244-9575

E-mail: charlevo@atmos.uiuc.edu

Room and Time: 390 Lincoln Hall; 9:00 – 10:50 M Tu Th

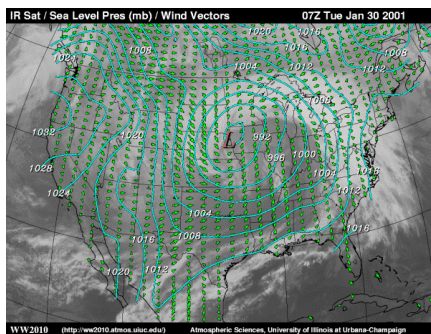
Credit: 3 hours

Prerequisites: None

This course introduces basic concepts of meteorology in a hands-on, interactive format. The nature of the physical processes responsible for changes in daily weather will be discussed and then computer based exercises using current and recent weather data will be used to investigate phenomena.

Learn the answers to the following questions:

1. How do you read satellite, radar and weather maps?
2. What is the difference between the ozone hole, the greenhouse effect and global warming?
3. Why does it feel warmer or cooler than it really is?
4. How and why do clouds form? Why do some precipitate?
5. Why does the wind blow?
6. How can you make a weather forecast?
7. How do thunderstorms, tornadoes and hurricanes produce severe weather?
8. How can the weather affect air pollution where you live?
9. How do rainbows, halos, sundogs and mirages form?



Text: *Essentials of Meteorology: An Invitation to the Atmosphere*, by C. Donald Ahrens, 3rd edition, Wadsworth Publishing Co. (Required).

This course is approved for General Education credit in the category of *Natural Sciences and Technology: Physical Science*
This course is approved for Quantitative Reasoning II