

Department of Atmospheric Sciences

COURSE ANNOUNCEMENT – SEMESTER I – 2007–2008

ATMS 300: Weather Processes

Call number: 30260

Instructor: Prof. Peter Snyder, 204 Atmospheric Science Bldg., 244-0928

E-mail: pksnyder@atmos.uiuc.edu

Room and Time: 109 Atmospheric Sciences Building; 1:00 – 1:50, M W F

Credit: 3 hours

Prerequisites: MATH 242, or equivalent, or the permission of the instructor

In this course, we will seek, using physical principles, answers to some fundamental questions about the atmosphere:

What are clouds? Why do they exist?

How do rain and snow form in clouds?

What are storms? How do they form?

Why are there winds?

How can the weather be predicted?

Course work will include quantitative problem solving and the use of meteorological maps, charts and computer-based exercises.

Text: Atmospheric Science: An Introduction Survey, by John M. Wallace and Peter V. Hobbs, Academic Press, 2006. (Required)