

ATS 351
Introduction to Weather and Climate Lab
Spring 2008

Instructors:

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Office hours:

Tuesdays, 2:00-3:00 PM, Engineering 204A
Thursdays, 12:00-1:00 PM, Engineering 204A
(Also by appointment)

Meeting times:

Wednesdays 3:00-5:50 PM, Natural Resources 108
Thursdays 6:00-8:50 PM, Clark Building C248

Course credits:

1 (Lab)

Course website:

<http://kiwi.atmos.colostate.edu/group/todd/Home.html>

Textbook/notes:

There are no official texts for this course, but a good reference for more information is the ATS350 book, *Meteorology Today, 7th edition*. C. Donald Ahrens, West Publishing Co.
Notes from class will be posted online before the scheduled class time.

Course outline:

Week of	Topic
1/21	Syllabus & UTC Time
1/28	Atmosphere Properties and Instruments
2/4	Measurements of the Atmosphere
2/11	Radiation and Energy Balance
2/18	Optics and Seasons
2/25	Clouds and Precipitation
3/3	Stability and Skew-T Diagrams
3/10	Wind and Small-Scale Circulations
3/17	NO LAB – SPRING BREAK
3/24	Frontal Systems and Cyclones
3/31	Weather Forecasting
4/7	Radar and Satellites
4/14	Severe Weather
4/21	Tropical Cyclones
4/28	Air Pollution
5/5	Climate Change
5/12	NO LAB – FINALS WEEK

Grading and exams:

-There are **NO** tests.

-Grades will be determined by lab work and possible extra credit assignments.

-A lab assignment will be handed out at the end of each lecture and will be **due at the beginning** of the next lab session.

-Any labs not turned in the end of the following lab will be penalized by 50% off the grade achieved. Any lab turned in after the graded labs have been returned will receive zero credit.

-The lowest lab score will be dropped; therefore, the final grade will be computed from 12 labs.

-A **BRIEF** presentation near the end of the course **OR** two short quizzes will also be included in the grade.