

Syllabus- METR 2011 Lab Sections 01 and 03: Fall 2012

MW 3:45 p.m.- 5:45 p.m. NWC 5720

TA: Stefan Rahimi

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Office Hours: By appointment, or whenever I'm here

Prerequisite: Mathematics 1823 (C or better); corequisite: Metr 2011, Mathematics 2423, Physics 2514 or 1205.

This lab will work to reinforce the course material of METR 2013, but the concepts and material covered will not necessarily coincide with what is being presented in the actual class. In fact, this lab may be thought of as a completely separate course.

Required Text:

Required Texts for the Lectures: **Meteorology Today: An introduction to weather, climate, and the environment**. 8th edition or newer; C. Donald Ahrens. Descriptive text emphasizing concepts and terminology.

Meteorology for Scientists and Engineers. 2nd edition or newer; Roland B. Stull. Mathematically based text for understanding derivations and applying concepts, but weak on motivation.

Course Objectives:

13 Labs will focus on the following areas of meteorology. The first 9 labs, starting on the 2nd week of class, will be the "core" labs. The final 4 labs will be SURPRISE labs (like a Jack in the box lab!). The core 8 labs will focus on the following topics, and will not necessarily be in the following order:

- Unit Conversions
- Creating a Website in HTML
- Radiation
- Skew-T/lnP charts
- Measurements
- GEMPAK
- Satellite Meteorology
- Atmospheric Moisture
- Atmospheric Stability

Collaboration is encouraged, but the work that is to be turned in must be yours. Cheaters will be caught.

Grading, due dates, and Late work:

METR will consist of a daily 5-question quiz administered at the beginning of lab. The quiz will test your knowledge of the previous week, however earlier concepts may be included. The labs will account for the largest percentage of the grading scheme, followed closely by the quizzes, and forecast journals will account for the lowest percentage. The breakdown is listed below:

Labs: 50%

Quizzes: 40%

Forecast Journals: 10%

LABS ARE DUE AT THE BEGINNING OF THE FOLLOWING WEEK'S LAB.

For every day that the lab is late, 5 percentage points will be deducted. Stay on top of your work. Time will be spent **outside** of lab working on your lab reports.

Grades:

I will look at natural cutoffs in the grade distribution.

Academic Misconduct:

Academic integrity policy website information: Details regarding academic integrity can be found at the following website: www.studentconduct.ou.edu.

In addition, persons found, or suspected of, having violated university academic conduct will be punished to the maximum extent allowable. The instructor will do his best to dissuade potential employers from hiring a person found guilty of academic misconduct.

Disabilities:

The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are required to speak with the professor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.