

Syllabus

Weather and Climate Laboratory

METR 1014-014 Fall 2006

Thursdays 3:00-4:50 PM SEC A133

Laboratory Instructor:

Eddie Natenberg

Office: National Weather Center (NWC) Room # 5642

Phone: Sorry, I don't have one.

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Course Description:

This lab will cover a wide range of topics about weather and climate and serves as a compliment to the material covered in the METR 1014 lectures.

Course Goals: 1) To gain an understanding of how material presented is used in real world applications and 2) to gain hands on experience using some of the methods and techniques used in weather and climate studies.

Course Materials:

Text: C. Donald Ahrens, *Essentials of Meteorology: An Invitation to the Atmosphere*, 4th Edition

Laboratory Manual: Oklahoma Climatological Survey, *Explorations in Meteorology*

Other lab Supplies: colored pencils, calculator (See Lab Manual)

Office Hours:

Office hours will be held on Tuesday from 12-1pm and Wednesday from 2-3pm in my office, or by appointment. My job as your TA is to help you understand the presented material. But, I can not help if you don't ask me questions. So, please stop by my office if you need something clarified. Feel free to come by whenever my door is open (I am in my office during unusual hour as well). I can also have special office hours by appointment only (so please e-mail me).

Laboratory Expectations:

Each student is required to do their own lab and turn it in either at the end of class or the beginning of class the following week if you are unable to finish it. Labs should be read before the start of class to prevent confusion during the lab session. Discussion of the lab concepts amongst your classmates is encouraged, however I expect you to come up with your own answers to the questions asked. Late lab reports will not be accepted unless there are extenuating circumstances that have been brought to my attention and cleared.

If extenuating circumstances arise, and have been cleared, the lab must be made up within a week.

Attendance: Attendance is mandatory!! This also means no switching lab sessions. Now I understand that extenuating circumstances may very well arise during the semester. Just come talk to me before so we can make some other arrangements. Even if an absence is cleared, you still have to do the lab and turn it in the following week unless I have told you otherwise. If you miss lab and it was not cleared with me you will receive a deduction in points on your next lab report.

Laboratory Reports:

The laboratory report will consist of the pages from the lab manual with a cover sheet. For the cover sheet you need a sheet of paper (any kind) with your name and lab number on it. You should answer the questions, fill in the tables, and draw on the figures when appropriate. Make sure you include all figures and questions when you hand in your lab. In your lab manual you will notice some of the questions say for majors only. You do not have to do any of those questions.

Important: Make sure your handwriting is legible. If I can't read it I can't grade it!

Laboratory Schedule (subject to change):

Aug-24	Lab #1: North American Geography
Aug-31	Lab #2: Earth-Atmosphere System
Sept-7	Lab #3: Radiation and Energy Transfer
Sept-14	Lab #4: Daily Temperature Cycle
Sept-21	Lab #5: Radiosondes and Soundings
Sept-28	NO LAB
Oct-5	Lab #9: Soundings and Stability
Oct-12	Lab #7: Surface Map Analysis
Oct-19	Lab #10: Upper-Air Analysis
Oct-26	Lab #6: Air Masses and Fronts
Nov-2	Lab #11: Thunderstorms & Their Environment
Nov-9	Lab #12: Severe Thunderstorm Case Study
Nov-16	Lab #13: Hurricane Tracks & Forecasts
Nov-23	NO LAB-Thanksgiving
Nov-30	Lab #14: Weather Forecasting: Precipitation Type
Dec-7	NO LAB-Dead Week

Grading:

This lab will count for 25% of your final grade. Lab reports will be 20 points each. Before each lab I will tell you what I expect out of an answer to receive full credit. The points from the 13 labs will give you 15% of your total class grade. The other 10% will come from 3 quizzes given during class that will cover lab material. The questions on the quizzes will be decided upon by the other TA's and myself. Remember, your lab grade will only be part of your final class grade.

Correspondence:

When sending me e-mails, please use your OU e-mail address and put "METR 1014: last name" in the subject line. I receive many e-mails and this will ensure that yours are read before the others.

Classroom Courtesy:

Lab begins at 3:00 pm. I will not be showing up late for lab so I expect that you will not be showing up late for lab either. Please treat me and your fellow classmates with respect at all times. Cell phones, pagers, and watch alarms cause unnecessary distractions and should be turned off or put to silent before coming to lab. If at anytime during my lecture you are confused or have a question please feel free to raise your hand and ask.

Academic Misconduct:

I will not tolerate cheating under any circumstances!! Those who are found to have cheated in any way will be penalized under the OU Academic Misconduct Code, found at <http://www.ou.edu/provost/integrity>.

Desire2Learn Website:

I will be using Desire2Learn in this lab for posting grades, lab notes, and other important information. You can find this at <https://learn.ou.edu>. Please check it regularly for announcements.

Accommodations for Students with Disabilities:

The University of Oklahoma is committed to accommodating students with disabilities. Those students that require accommodations are asked to speak to me as soon as possible. Students with disabilities must be registered with the Office of Disability Services before receiving any accommodations. The Office of Disability Services can be found in Goddard Health Center, Suite 166. The office can be reached at 405-325-3852 (voice) or 405-325-4173 (TDD).

Syllabus may be modified throughout the semester. I will keep you posted on these changes as they occur.