

Introduction to Weather and Climate Lab
METR 1014-013
Fall 2009
Tuesday 6:30–8:20pm SEC, Room P209

Instructor: Todd Kluber (Todd.Kluber@ou.edu)

Office Hours: Monday 4:30–5:30pm, SEC 562 and after lab or NWC 5325 by appointment.

Purpose of the course:

To apply the knowledge gained in lecture and to better understand the fundamentals of meteorology.

Expectations:

It is expected that you have read the required text from the text book used in lecture and have attended lecture regularly.

Materials:

Pencil, colored pencils, calculator, notes, text book and lab manual. I will inform you if there will be any additional materials that may help you with a particular lab.

Required Texts:

- 1) *Essentials of Meteorology: An Invitation to the Atmosphere* by C. Donald Ahrens (5th Edition)
- 2) *Explorations in Meteorology: A Lab Manual*

Schedule:

September 1st – North American Geography

September 8th – Dimensions/Units

September 15th – Earth-Atmosphere Systems

September 22nd – Radiation and Energy Transfer

September 29th – Daily Temperature Cycle

October 6th – Atmospheric Moisture

October 13th – Atmospheric Motion

October 20th – Air Masses/Fronts

October 27th – Surface Map Analysis

November 3rd – Mid-Latitude Cyclones

November 10th – Atmospheric Stability

November 17th – Thunderstorms and Tornadoes

November 24th – **No Lab** – Thanksgiving Break!

December 1st – Hurricane Tracks and Forecasts

December 8th – COMET Lab on Climate Change (Sessions does not meet)

Assignment Policy:

Assignments will be given at the start of the lab and will be due at the end of the period. **Any labs completed before the beginning of lab will not be accepted.**

Grading:

The labs constitute as 15% of your final grade in the course and lab quizzes will account for 10% of your final grade. Lab quizzes and the material they cover will be announced one week prior to the date they will be given. They will be administered at the start of the lab and cannot be made up. I will attempt to have all labs graded by the weekend with grades posted on D2L. They will be returned at the following lab session.

Attendance:

Students are expected to attend every lab. An unexcused absence will result in a zero for the lab. If you know you will be unable to attend a lab please inform me at least 24 hours before the lab. A doctor's note will be required for illnesses.

Help outside of class:

Because I work on the research campus in the National Weather Center, it is difficult for me to schedule office hours in Sarkey's Energy Center. I will be available most days at the NWC. If you are unable to come during my office hours in SEC or need additional help, please do not hesitate to contact me at the email address above (I check it regularly throughout the day) at least one day prior to your requested time. Parking is available at the NWC. Also, CART has a route between OU and the NWC called the "Research Shuttle" "N42 Gold" route. (<http://cart.ou.edu/gold.html>). It leaves the NWC every 20 minutes at :05, :25 and :45 after the hour and leaves the campus at :15, :35 and :55 minutes after the hour. In order to enter the building, you will need to show your OU student ID to the security guards at the front desk.

D2L:

I will use D2L to update lab grades as well as post any information that may be needed for your next lab. Please check the site before coming to lab to see if there are any additional materials you may need.

Academic misconduct:

"Academic misconduct is defined as any act which improperly affects the evaluation of a student's academic performance or achievement. It specifically includes cheating, plagiarism, fabrication, fraud, destruction of property, and bribery or intimidation, as well as assisting others or attempting to engage in such acts." It is assumed all students are aware of the code. It can be found at <http://www.ou.edu/provost/integrity/>

- Group work is encouraged during lab sessions. However, it is the student's responsibility to provide his/her own answers on the lab. The University of Oklahoma Academic Misconduct Code will be adhered to throughout the course. Any infraction of this policy will be handled by following the guidelines set forth in the code.

Individuals with disabilities:

“The University of Oklahoma will reasonably accommodate otherwise qualified individuals with a disability unless such accommodation would pose an undue hardship, would result in a fundamental alteration in the nature of the service, program or activity, or would create undue financial or administrative burdens. The term “reasonable accommodation” is used in its general sense in this policy to apply to employees, students and visitors. Student requests for reasonable accommodation should be addressed to the Disability Resource Center, Goddard Health Center, 620 Elm Avenue, Suite 166, (405) 325-3852, TDD (405) 325-4173, FAX (405) 325-4491, or ods@ou.edu.”

- Please let me know as soon as possible if this policy applies to you and I will work with you to provide the necessary accommodations.

Religious holidays:

“It is the policy of the University to excuse the absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays.”

- Please inform me of any absences as a result of a religious holiday at least one week in advance.