

METR 1014-011
Introduction to Weather and Climate Laboratory
Fall 2009
M 3:30pm-5:20pm SEC Rm P0209

Instructor

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Office Hours: By appointment

Text

Explorations In Meteorology: A Lab Manual
Essentials of Meteorology: An Invitation to the Atmosphere (5th Edition)

We will not be directly using the textbook in class, but you will be required to bring it since it is a valuable reference text for your lab assignments.

Lab Description

Laboratories serve as a complement to the lecture material covered in this course. The material will not be exactly the same as what is presented in lecture, but will show up on exams, so make sure you to know and pay attention to lab material as well. Lab is designed to engage a hands-on learning environment and to enhance your understanding of meteorology in general. For an overview of topics covered, refer to the calendar on the last page of this syllabus.

Grading

Lab exercises	15%
Lab quizzes	10%

Your final lab grade will account for 25% of your total grade in the course. The labs will be graded for the most part on accuracy, so just simply putting forth the effort is not quite enough. You may lose points for sloppy or illegible work, so please be as neat as possible. You will also be allowed to drop the lowest quiz grade.

Attendance

Attendance in lab session is MANDATORY. I will not take attendance at the beginning of class, but I will know who is there by who turns in their lab. I will not accept a lab turned in by a friend. In order to turn in a lab you yourself must hand it in.

If you need to miss a lab due to athletic or religious reasons please inform me as soon as possible, but by no later than one week prior to the missed class. It may be possible for you to attend an alternate lab session, but this first must be cleared with the proper teaching assistant. I understand that sometimes you will need to miss a lab due to illness or unavoidable circumstances (ex. A death in the family) and will not be able to provide the

required one week notice. Please let me know as soon as possible and other arrangements can be made for you to receive credit for your lab.

Lab Structure

We will start each lab promptly at 3:30. Please make your best effort to not come in late as it disrupts the class. Be sure to come prepared. This means bringing a pencil, eraser, calculator, and sometimes colored pencils to each class. It may also benefit you to read over the lab before coming to class. I will give a brief introduction to each lab before you start on your assignment, and this is a good time to ask questions if you have any.

Labs are to be completed in class only. The two hours allotted to class should be sufficient to complete each lab, so please use your time effectively. If the majority of the class cannot finish by the end of lab time, it will be dealt with as needed.

DO NOT COMPLETE THE LAB BEFORE CLASS!! There is no reason to do this. If I suspect that students have completed the lab before class, this will result in a loss of points on that particular lab.

Desire2Learn

<https://learn.ou.edu> (log in with your 4x4)

Please refer to this website every so often as I will post announcements if necessary. Grades will also be posted here unless you have requested to have them withheld.

Accommodation of Students with 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 requested to speak with the instructor 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. You may contact the office at 405-325-3852 (voice) or 405-325-4173 (TDD).

Academic Misconduct

Cheating will not be tolerated and will be reported. No exceptions, no excuses. Those found cheating will be penalized under the OU Academic Misconduct Code, which can be found at <http://www.ou.edu/provost/integrity>. In short, if you cheat, expect to be removed from the course and to receive an F for the course.

Working together is highly encouraged in this class. Using other students as a resource is a great way to learn in a field such as meteorology. However, the work you submit MUST be your own work. Any student caught copying off another student will be penalized.

Lab Schedule

Week #	Lab
Week 1	No lab
Week 2	Lab #1: North American Geography
Week 3	No lab due to Labor Day
Week 4	Dimensions & Units Lab
Week 5	Lab #2: Earth-Atmosphere System
Week 6	Lab #3: Radiation & Energy Transfer
Week 7	Lab #4: Daily Temperature Cycle
Week 8	Lab #5: Atmospheric Moisture
Week 9	Atmospheric Motion Lab
Week 10	Lab #6: Air Masses & Fronts
Week 11	Lab #7: Surface Map Analysis
Week 12	Mid-Latitude Cyclone Lab
Week 13	Atmospheric Stability Lab
Week 14	Thunderstorms & Tornadoes Lab
Week 15	Lab #13: Hurricane Tracks & Forecasts
Week 16	COMET Lab: Climate Change: fitting the pieces together