METR 2011 – Introduction to Meteorology I Laboratory
Syllabus: Spring 2010

Instructor: Robert Gottlieb
Office: NWC 5340
Office Hours: TBD
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Content: This lab will complement but not necessarily follow the lecture material directly. Special emphasis will be given to utilizing computational tools such as Excel, Matlab, and GEMPAK to study the atmosphere.

The Official Description from the OU catalog:
METR 2011-Introduction to Meteorology I Laboratory: Reinforces the theoretical concepts provided in the counterpart lecture course Meteorology 2013, which introduces students to important phenomena and physical processes that occur in the earth's atmosphere. Through a series of laboratory exercises, students will learn the basic concepts and tools that are used to study atmospheric problems. Special emphasis will be placed on developing information technology and computational skills. The laboratory exercises target the topics covered in the lecture component.

Text: *Required* – "Linux in a Nutshell", (5th edition) – by Seiver, Weber, Figgons, Love, and Robbins. O'Reilly Media Inc.
                    "Explorations in Meteorology", Oklahoma Climatology Survey
         Other handouts as given by instructor

Schedule: (subject to change to better match lectures)

Week	Topic
Week 1	Units & Maps
Week 2	Unix & METAR Decoding
Week 3	HTML & Surface Map
Week 4	Temperature
Week 5	Radiation
Week 6	Moisture
Week 7	Satellite
Week 8	Spring Break (NO CLASS)
Week 9	Skew-T
Week 10	Skew-T continued
Week 11	Precipitation Processes
Week 12	Clouds & Stability
Week 13	Intro to Hand Analysis
Week 14	Radar
Week 15	Final Review

Grading: Approximately 14 Lab assignments weighted equally   75%
                   Lab Quizzes   15%
                   Class Participation   10%
                                                                            100%

Grading Scale:

90-100	A
80-89	B
70-79	C
60-69	D
00-59	F

Lab Schedule*: (*Subject to change)

Lab Assignments: Lab assignments must be turned in at the beginning of the next lab period, before the next lab begins. No late work will be accepted, except in the case of extenuating circumstances (i.e. death in the family, hospitalization, etc.) If you are sick, you must turn in the assignment within a week of its due date and present a doctor's note, otherwise a 0 will be given for the late assignment. If possible, please notify your instructor in advance of any planned absence.

Holidays: Spring Break -- No class March 15th

Attendance: You are expected to attend every lab session, although attendance will not be taken, it will factor into your class participation grade. The material learned in one class is connected to other material learned in the class on other days, so it is to your advantage to attend every lab, for the full time. Quizzes will be given during several lab periods throughout the semester.

Web Page: This course has a web page located at: https://learn.ou.edu. All grades will be posted on this class website, and if you have any questions about what has been posted contact me immediately.

Academic Misconduct:
Academic misconduct is a serious breach of ethics since it potentially can harm those students who are honestly pursuing their studies. All instances of alleged academic misconduct will be thoroughly investigated and action taken under the official university policies.

You are allowed to work with fellow classmates on any and all lab assignments; however, each and every lab must be your own work with your own write-up. Any copying is strictly prohibited and will result in a zero on that assignment and the loss of any extra-credit opportunities for the entire semester.

Needed Disclaimer:
"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 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."