



METR 2024 – 012

Lab for Introduction to Meteorology II, Spring 2006

Thursdays 3:30-5:20pm SEC P0203

Kenny L. Tapp
SEC 1335

Teaching Assistant

Office Hours: Wednesday 10:30-11:30am and by appointment

Meteorology Lab Hours: Wednesday 3-4pm

Required Book

Explorations in Meteorology A Lab Manual, Oklahoma
Climatological Survey. Thomson Brooks/Cole, 2006.
ISBN 0-495-01029-4

Suggested Book

Linux in a Nutshell, Fifth Edition. O'Reilly, 2005.
ISBN 0-596-00930-5

Contact:

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Attendance:

In order to earn credit for the lab portion of this class you must attend lab regularly. There will not be a grade given for attendance. However, there will be irregular quizzes, which will account for 5 points each.

There are no excused absences, each Thursday missed will result in a zero score for that lab. If you have to miss a lab for an emergency, please contact me as soon as possible and you will be accommodated to the best of circumstances. Note: There are few options for making up a missed lab exercise.

It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required classwork that may fall on religious holidays. If you have a class conflict due to a religious holiday, you should notify me at the beginning of the semester so that appropriate labs can be rescheduled.

The Written Lab:

Each class session is assigned a laboratory exercise which will be performed during class. Some labs can be performed in groups, but will be graded per individual. You need to be in class each week in order to perform the labs, get useful information and to ask questions. The labs should challenge you and most students will need to ask some questions in order to complete the lab.

All labs are due one week after they have been assigned unless you are told otherwise and the lab report that you submit must follow these guidelines:

- Cover page including lab title, student name, last four of OU id #, class section, and due date

- Typed questions and answers
- Any relevant and necessary figures

If you need help or have questions with any of these requirements please see me as soon as possible.

There are many ways to add figures and complete the labs. You will be provided with appropriate digital figures so that you can include them in the written report. Make sure that your complete lab is professional and easy to read. The best way to ensure full credit is to follow guidelines very similar to those for authors of American Meteorological Society journals. Free access through any OU or SoM computer to the AMS Journal Search website is a great method of finding articles of interest and for research. Take note of how articles are formatted and replicate those standards in your written lab reports. Each lab report that you submit must follow these format standards:

- Limit one column, 1 inch margins.
- Font = Times New Roman, Font Size = 12.
- Abstract should be no longer than 3 sentences.
- Reference page should strictly follow AMS guidelines.
- Author last name should appear with page number (eg. Tapp, 1).

There is no need to remove pages from your lab book. However, written work is expected in the lab book. Written work is subject to irregular quizzing.

Grading: The labs count as 20% of your grade for the course. Each lab exercise is worth 20 points. Labs will be due at 3:35pm on the Thursday after they are assigned. Each submitted lab will be graded and handed back one week later in lab class. The grades will be posted on Desire2Learn by that same day. Please check your grades periodically and let me know as soon as possible if there are any perceived errors. Also note previous comments on quizzes and their relevant scoring procedures.

Each student's lowest scoring lab will be dropped at the end of the semester.

Preparation for Quizzes: There will be an irregular quiz given at the beginning of lab class. If you are tardy beyond 3:45pm, you will forfeit your chance at the quiz. You are expected to read through the lab for each week before coming to class. This will help prepare you for the lab. Quizzes will cover previous lab material and lab lectures. You are responsible for maintaining the lab schedule (which will be handed out and posted online) so that you know which lab will be covered each week. In order to have the labs supplement class material, they will most likely not be covered in numerical order. For best organization to adequately prepare for both class and lab, a binder is recommended.

GEMPAK: On days of GEMPAK scheduled laboratory exercises, students will meet in the Meteorology Computer Lab on the Plaza level of the Sarkeys Energy Center. Students are responsible for acquiring and maintaining an account on Rossby. GEMPAK assignments will be electronically submitted though Desire2Learn and email.

Academic In this lab class you will work with other students on occasion. This is usually

Integrity: appropriate and will be encouraged. However, the work that you turn in should be an example of your knowledge gained from the lab exercise and of your own doing. Cooperation will not be allowed on quizzes. Be familiar with the academic integrity code posted at <http://www.ou.edu/provost/integrity>. The best way to avoid a problem is to not put yourself in a gray area where you are uncertain what is appropriate. *When in doubt, do your own work.*

Disability Accommodations: *"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."*

SUMMARY SCHEDULE (Subject to Change)
METR 2024-012

Updated 1/19/06

	Day	Class Activity	Remarks
1	1/19/06	Syllabus <i>Lab 10: Upper-Air Analysis</i> Quiz 1: Weather.ou.edu	
2	1/26/06	Gempak: Upper-Air & Skew-T	Lab 10 Due
3	2/2/06	Gempak: Satellite Interpretation	
4	2/9/06	<i>Lab 6: Air Masses & Fronts</i>	
5	2/16/06	Gempak: Cyclones & Surface Analysis	Lab 6 Due
6	2/23/06	<i>Lab 14: Weather Forecasting, Precipitation Type</i>	
7	3/2/06	<i>Lab 15: Weather Forecasting, Model Output Stats.</i>	Lab 14 Due
8	3/9/06	Gempak: Forecast Panel Plot	Lab 15 Due
9	3/16/06	Spring Break – No Lab	
10	3/23/06	<i>Lab 11: Thunderstorms & Environment</i>	
11	3/30/06	<i>Lab 12: Severe Thunderstorms, A Case Study</i>	Lab 11 Due
12	4/6/06	Gempak Case Study: Severe Weather Events of 2004	Lab 12 Due
13	4/13/06	<i>Lab 13: Hurricane Tracks & Forecasts</i>	
14	4/20/06	<i>Lab 16: Climate Statistics</i>	Lab 13 Due
15	4/27/06	Gempak: Severe Weather Information Plot	Lab 16 Due
16	5/4/06	No Lab	