

METEOROLOGY LABORATORY

3 hours per week, 1 unit

Text: Suckling ,P.W. *Studies in Weather and Climate*, Univ. of Georgia, 4 th. edition.

Recommended equipment and texts:

- a) metric ruler
- b) scientific calculator
- c) atlas of the world
- d) clip board

This is a one unit traditional scientific laboratory course. The class will meet for three hours once a week.

In the first hour the instructor will lecture on the experiment or exercise for that laboratory period. The lecture will include familiarization of the theory or a concept in meteorology, an explanation of the assignment in the laboratory, and the methods to be used in conducting the exercise.

The second and third hours are to be used to conduct the experiment and complete the assignment.

At the next laboratory period, the student is expected to have completed the previous assignment and to have any written results prepared for checking by the instructor, if requested. **Do not tear out your assignments.**

The grade for the laboratory will be determined by:

Your score on the two tests. The tests are **open Lab. Manual (only)**. **Questions may require you to re-compute an assignment question, using the method in the manual. You should explain to yourself in writing on the page of the manual how you arrived at an answer so that you can do the exercise again on the test.**

You are expected to be in class *each week*, and *must stay for at least the first hour* to receive the assignment. In case of illness a laboratory may be made up, but it is the student's responsibility to obtain the assignment, first from another student or from a tape recording of the lecture (in the L.R.C.), finally, if there are still questions about the assignment, from the instructor.

COURSE OUTLINE

Session #	Chapter	Title	Starting Page #	Time Weeks
1.	Provided	Scientific Notation: Metric System	1+	1
2.-3.	Ch. 1	Geographic Features of the Earth	1+	2

Session #	Chapter	Title	Starting Page #	Time Weeks
4.	Ch. 4 Ch 11	Temperature	39-45 and 137-144 # 1-4	1
5.	Ch. 2	Composition of the Atmosphere Earth-Sun Relations	15+ except #8 p.24	1
6.	Ch. 3	Energy Balance	27+	1
7.	Ch. 5	Humidity Field Exercise	57 + : pp. 50- 51; #6 & #7	1
8.	First Lab Test Assignments 1-6			
9.	Ch. 7	Winds	75-88, #1-9	1
10.	Ch. 6	Clouds and Precipitation	63 +	1
11.	Handout	California Lapse Rates	Handout	1
12.	Ch. 8	Extra-Tropical Cyclones	91-106 omit #9	1
13.	Ch. 10	Tropical Cyclone	123+ omit internet question	1
14.	Final Test on Assignments 7 - 12 (last regular meeting of the semester)			

Note: In semesters with 15 Laboratory meetings * , there will be an additional exercise on Weather Map Analysis between Assignments numbers 12 and 13. Assign # 11 may be omitted if there are only 13 meetings in a semester.

* Some assignments may take more than one lab session, and the assignments may be subject to change or deletion depending upon school holidays.

Final Grades: You may take this course for a letter or CR/NCR grade. A drop (W) cannot be given after 75% of the semester has passed. You will be dropped if you have not taken your first examination prior to the Lab. for assignment #9. The instructor may drop a student if more than one week plus one hour of class is missed.

It is your responsibility to officially drop a course to avoid an F or NCR grade.

Do:

Keep up with the assignments.

Work in groups on that week's during the second and third hours.

Make notes in your manual so that you can recalculate answers if necessary on examinations.