

METEOROLOGY Lecture COURSE OUTLINE

TEXT: Lutgens & Tarbuck, The Atmosphere, Prentice Hall, 9th Edition

Class Session Number	LECTURE SUBJECT	READING ASSIGNMENT
	1. Clouds and Cloud Types	pp. 126-136
	2. Weather Elements and Soundings	pp. 4-6, 18-27
	3-4. Instrumentation & Weather Elements Theory	pp.80-85,107-109,148-151, 163-169, 183-186, 352-356
	5. Atmospheric Structure - The Standard Atmosphere	Chapter 1, p. 24 Fig. 1-22,p.166-167
	6. Lapse Rates	Lecture and pp. 378-381
	7. Earth-Sun Relationships	Chapter 2, p. 34-42
	8. Incoming Solar Radiation	Chapter 2, p. 42-58, 73-74
	9-10. Outgoing Radiation - Energy Balance	
	End of Material for FIRST EXAM	
	11. Kinetic Model and Gas Laws	Appendix D, p. 485
	12. FIRST EXAM	
	13-14. General Circulation	Chapter 7 (p.199-204, 210-220)
	15. Coriolis Effect, Gradient, and Geostrophic Winds, Jet Streams	Chapter 6 , p.169-183
	16. Specific Heat (Land-Water heating)	Lecture, p. 67
	17-18. Secondary and Tertiary Wind Motion	Chapter 7 (pp. 204-106), p.194-199
	19. Water in the Air, Change of State, Latent Heat	Chapter 4, p. 95-99
	20. Relative Humidity	pp.102-107
	End of Material for SECOND EXAM	
	21. Lapse Rates - Stability	pp. 115-120
	22. SECOND EXAM	
	23. Ice and Water in Clouds - Precipitation	Chapter 5, p. 136-156
	24. Air Masses	Chapter 8
	25. The Wave Cyclone	Chapter 9
	26. Thunderstorms, Electricity, Hail	Chapter 10
	27. Tropical Disturbances	Chapter 11
	28. Tornadoes	Chapter 10

FINAL EXAM (See Schedule of Classes for date and Time)

INFORMATION

In order to receive a grade of completion in Meteorology Lecture you must take each of the three examinations.

There will be two hourly examinations and a **non**-comprehensive final. The final will be given at the time and date listed in the schedule of classes, please - no exceptions, you have 17 weeks to arrange your schedule to conform with the final exam date which is published in the schedule of classes. Hourly tests will be given during the normal class period when lecture material is completed to the point listed on the previous page. You may make **prior arrangements** to re-schedule a test for a good reason **without penalty**. Make up exams may be taken during Laboratory periods or during my office hour. No make up exams will be given during the lecture period. **Make up tests** must be taken **within one week** of the scheduled exam time.

Each exam has a machine scored portion. You are asked to bring #2 pencils and a Parscore Form (8 1/2" X 11" **orange** in color, available at the bookstore) to each exam. Exam study sessions may be set. (on a voluntary basis) Study sessions will be held at a seminar room in the library. Times and dates will be arranged in class.

Most of the examination material comes from the lecture sessions.

Student class notes and Pre tests and test grades are available on your web site at:

<http://www.cabrillo.cc.ca.us/divisions/socsci/metgeo/index.html>

Grades:

- a) You may take this course on a credit/no credit basis or a letter grade. A letter grade will be assigned unless you request a **CR/NCR** option by the end of the third week of school.
- b) Withdrawals (**W**) cannot and will not be granted to any student who is enrolled in the class after 75% of the semester is completed. Mr. Balogh does not have the authority to make exceptions to the above policies. **IT IS YOUR RESPONSIBILITY TO DROP A COURSE IF YOU STOP ATTENDING.**
- c) Any missing grades at the end of the semester will result in a grade earned with a 0 for the missing work, usually resulting in a "NCR"(no credit) final grade.

ATTENDANCE:

A roll sheet will be passed around at most class sessions. You are asked to initial after your name. The initial means that you are in attendance and that you have received handouts (**like this one**). You are not required to be at each class, but you are responsible for the lecture material presented. Mr. Balogh tapes the lectures. These audio tapes (C-90 Cassettes) are in the Library and available to you if you miss a lecture or wish to hear it again. You may listen to a lecture in the Library or you may have a tape duplicated for home listening for a fee. You are expected to obtain any missed handouts from Mr. Balogh. Excessive absences (more than 4 class hours) **may** result in an administrative withdrawal at the instructor's option. If you are ill or are away from class for more than one week, let Mr. Balogh know immediately after your return.

This is a lecture only class. If you wish to receive Laboratory credit for Meteorology, you must also complete Meteorology 1 L , a 1 unit Laboratory which supports the lecture. You may take this Laboratory concurrently or anytime after you successfully finish the lecture class.