

# METEOROLOGY Lecture COURSE OUTLINE (Distance Learning)

**TEXT:** Lutgens & Tarbuck, The Atmosphere, Prentice Hall, 10th Edition

Class Session Number	LECTURE SUBJECT	READING ASSIGNMENT
	1. Clouds and Cloud Types	pp. 134 -139
	2. Weather Elements and Soundings	pp. 8 - 11
	3-4. Instrumentation & Weather Elements Theory	pp.82-88, 111-113, 155-157, 169-173, 190-193, 368-371
	5. Atmospheric Structure - The Standard Atmosphere	Chapter 1, p. 23 - 26, Fig. 1-25
	6. Lapse Rates	Lecture and pp. 391 - 393
	7. Earth-Sun Relationships	Chapter 2, p. 34 - 43
	8. Incoming Solar Radiation	Chapter 2, p. 42 - 57, 75 - 77
	9-10. Outgoing Radiation –	
	11. Energy Balance	57-60
	<b>End of Material for FIRST EXAM</b>	
	12. Kinetic Model and Gas Laws	Appendix D, p. 499
	<b>13. FIRST EXAM (given on a non Laboratory day)</b>	
	14-15. General Circulation	Chapter 7 (p. 204 - 210, 217 - 229)
	16. Coriolis Effect, Gradient, and Geostrophic Winds, Jet Streams	Chapter 6 , p.175 -189
	17. Specific Heat (Land-Water heating)	Lecture, p. 68-72
	18-19. Secondary and Tertiary Wind Motion	Chapter 7 (pp. 199 - 204), p.210-212
	20. Water in the Air, Change of State, Latent Heat	Chapter 4, p. 99 - 105
	21. Relative Humidity	pp.106-113
	<b>End of Material for SECOND EXAM</b>	
	22. Lapse Rates - Stability	pp. 120 - 125
	<b>23. SECOND EXAM (given on a non Laboratory day)</b>	
	24. Ice and Water in Clouds - Precipitation	Chapter 5, p. 142 -163
	25. Air Masses	Chapter 8
	26. The Wave Cyclone	Chapter 9
	27. Tropical Disturbances	Chapter 11
	28. Thunderstorms, Electricity, Hail	Chapter 10, p. 286 - 300
	29. Tornadoes	Chapter 10, p. 300 - 313
	<b>FINAL EXAM (See Schedule of Classes for date and Time)</b>	

# INFORMATION

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

There are two hourly examinations and a **non**-comprehensive final. **You must take examinations at the Proctoring Center. Call 479.6369 and make an appointment to take the test. \*\*Distance Learning Students only.\*\*** Accommodations can be made if you cannot come to the Aptos Campus to take your tests at the Proctoring Center. Please email or phone Mr. Balogh for further information.

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.

**Most of the examination material comes from the lecture sessions.**

**You may Prepare one 3X5-inch card (2 sides) in your own handwriting for each exam.**

## **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.

**Special Note:** Many learning disabilities are not apparent to others. I will make any reasonable accommodation to assist you in learning the material, but I must be aware of your need. If you have a disability, please seek assistance at **DSS (X6379)**.

## **ATTENDANCE:**

**Mr. Balogh DVD's lectures.** These DVD's are in the library and available to you if you miss a lecture or wish to hear it again. You must view a lecture in the library. Lectures are also available on, and downloadable from, iTunes University at:

<https://www.cabrillo.edu/itunesu/>

**You are expected to download handouts from the web site.**

**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.**