

EAS 101 The Atmosphere (Code 2443)
Fall Semester, 2004, Lecturers MWF 1100-1150 hrs, J107

Week	Lecture	Date	Topic	Chap	
0	1	F	27 Aug	Introduction	1
1	2	M	30	Properties	
	3	W	1 Sept	Measurements	
	4	F	3	Measurements (contd.)	Assign. 1: Read a weather map
2	5	W	8	Air pollution	
	6	F	10	Clouds and precipitation	2
3	7	M	13	Cloud types	
4	8	M	20	Cloud formation	Assign. 2: Make cloud observations
	9	W	22	Precipitation	
5	10	M	27	Hydrological cycle	
	11	W	29	The atmosphere's energy	3
	12	F	1 Oct	Solar	
6	13	M	4	Terrestrial	
	14	W	6	Seasonal	Assign. 3: Make sun-angle measurements
	15	F	8	Applications	
7	16	W	13	Air in motion	4
	17	F	15	Forces	
8	18	M	18	Horizontal winds	
	19	W	20	Vertical winds	
	20	F	22	Stability	Assign. 4: Predict cumulus cloud formation
9		M	25	Test 1	
	21	W	27	Atmospheric circulations and storms	5
	22	F	29	Mid-latitude cyclones	
10	23	M	1 Nov	Tropical cyclones	Assign. 5: Locate air masses and fronts
	24	W	3	Thunderstorms and tornadoes	
	25	F	5	Local winds	
11	26	M	8	Weather forecasting	6
	27	W	10	Techniques	
	28	F	12	Meso-scale models	
12	29	M	15	Long range forecasts	Assign. 6: Make a weather forecast
	30	W	17	Weather modification	
	31	F	19	Climate	7
13	32	M	22	Temperature	
	33	W	24	Precipitation	
14	34	M	29	Change	Assign. 7: The climate of NYC
	35	W	1 Dec	El Nino - La Nina phenomenon	
	36	F	3	Global change	8
15	37	M	6	Impact of human activities	
	38	W	8	The future	Assign 8: Your solution to a global-change problem
	39	F	10	What can be done?	
16	40	M	13	Summary	
		Tu	14	Test 2	
		M	20	Comprehensive final (optional), 1035 to 1255 hrs	

Instructor: Prof. Ward Hindman (Edward)

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Text: R. Anthes, 1997: *Meteorology*, 7th ed., Prentice Hall (ISBN 0-13-231044-9)

Grades: A+ 100-98%, A 97-94%, A- 93-90%; B+ 89-87%, B 86-84%, B- 83-80%; C+ 79-77%, C 76-74%, C- 73-70%, D 69-60%, F<60% (I do not curve). Your grades and grade-to-date will be posted on the web at mid-term and end-term. You are responsible for checking their accuracy against the grades on returned papers, thus, **YOU MUST KEEP YOUR RETURNED PAPERS!**

Tests: 70%, No makeup tests will be given. The best two of three tests will be counted. If you miss a test you need to take the comprehensive final (Test 3). If you arrive at a test after the first person leaves, you cannot take the test.

Assignments: 15%, Due at the beginning of the class on date listed on the assignment, late assignments will not be accepted. The assignments must be your own work.

Quizzes: 15%, Once a week, typically Wednesdays (**boldfaced**), on material from lectures, assignments and the textbook since the last quiz or test. There will be no makeup quizzes; extra credit points on tests will make up for missed quizzes.

General: Lectures and answers to quizzes, assignments and tests will be posted on the web. Grade disputes must be resolved before the final exam. Cheating on quizzes and exams will cause failure of the course. No food or drink is allowed in the classroom. Please disable your cell phone and pager in the classroom.