

DESCRIPTION: This is a non-technical and descriptive discussion of the fundamentals and principles of atmospheric processes. It is part of Topical Cluster (CL1) ILSN Natural Science requirements in UNCA Integrative Liberal Studies.

INSTRUCTOR: **Dr. Alex (Huo-Jin) Huang**, RBH 236B, Dept. of Atmospheric Sciences, UNCA
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 Office Hours: Tuesday Thursday, 11-11:30 am, 1-1:30 pm; Wednesday 2:30-3 pm
 (or by appointment, but walk-in is always welcome)

TEXT: **The Atmosphere (10th edition, 2007) by F. K. Lutgens and E. J. Tarbuck.**

SCHEDULE: 1:45-3:00 pm, Tuesday, Thursday, RH 110.

EXAMS: 1st Test: 2/14; 2nd Test: 3/13; 3rd Test: 4/3;
 Final Exam: 11:30 - 2 pm, Thursday, May 8, 2008.

GRADING: **Quizzes: 20%, 3 Tests: 50%, Classroom participation: 5%, and Final Exam: 25%.**

GRADE SCALE (100%): A \geq 93; A-: 92.5-90; B+: 89.5-87; B: 86.5-83; B-: 82.5-80;
 C+: 79.5-77; C: 76.5-73; C-: 72.5-70; D+: 69.5-67; D: 66.5-60; F: \leq 59.5.

SPECIAL REMARKS: Class attendance is strongly recommended. You are solely responsible for the consequences due to your absence. No make-up quizzes/tests will be given. Exception may be granted for uncontrollable circumstances and medical reasons. You have to consult with the instructor at your earliest convenience for exceptions. A significant reduction of your score on your late/make-up quizzes may be applied. You will receive an F for the semester if you miss more than 8 class periods without any justifiable and excusable reasons.

****Respect & Responsibility****

NOTE: This syllabus is subject to any reasonable modifications by the instructor with the consent of students.

COURSE OUTLINE

Week	Dates	SUBJECT	Chapter
1	1/15, 1/17	Introduction to the Atmosphere	1
2	1/22, 1/24	Heating Earth's Surface and Atmosphere	2
3	1/29, 1/31	Global Warming	14
4	2/5, 2/7	Global Circulation	7
5	2/12	Temperature	3
5	2/14	1st Test, Temperature	3
6	2/19, 2/21	Moisture and Stability	4
7	2/26, 2/28	Forms of Condensation and Precipitation	5
8	3/1-3/9	Spring Break	
9	3/11	Forms of Condensation and Precipitation	5
9	3/13	2nd Test, Air Pressure and Winds	6
10	3/18, 3/20	Air Pressure and Winds	6
11	3/25	Air Masses	8
11, 12	3/27, 4/1	Weather Patterns	9
12	4/3	3rd Test, Weather Analysis and Forecasting	12
13	4/8, 4/10	Thunderstorms and Tornadoes	10
14	4/15	UNCA Spring Symposium, no class	
14	4/17	Hurricanes	11
15	4/22, 4/24	World Climates	15
16	4/29	Global Climate Change	14
16, 17	4/30, 5/1	Reading day	
17	5/8	Final Exam, 11:30 – 2 pm, Thursday	