

ATMS 103.2 INTRODUCTION TO METEOROLOGY**Spring 2007**

DESCRIPTION: This is a non-technical and descriptive discussion of the fundamentals and principles of atmospheric processes. It is part of Topical Cluster (CL1N) ILSN Natural Science requirements in UNCA Integrative Liberal Studies.

INSTRUCTOR: **Dr. Huo-Jin (Alex) Huang**, RBH 236B, Dept. of Atmospheric Sciences, UNCA
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 Office Hours: M W F 9:45-10:15 pm; Monday 1:30 – 2 pm, Wednesday 2:30 – 3 pm
 (Or by appointment, but walk-in is always welcome)

TEXT: **Introduction to Meteorology Handout** by Dr. Alex Huang (2007).

SCHEDULE: 11:25 –12:15 pm, Monday, Wednesday, Friday, RH 110.

EXAMS: 1st Test: 2/12; 2nd Test: 3/14; 3rd Test: 4/11; Final Exam: 11:30-2 pm, 5/4/2007.

GRADING: **Quizzes: 25%, 3 Tests: 50%, and Final Exam: 25%.**

GRADE SCALE (100%): A ≥ 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: ≤ 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 | 1/17, 1/19 | Introduction | 1 |
| 1, 2 | 1/22, 1/24, 1/26 | Atmosphere | 2 |
| 2, 3 | 1/29, 1/31, 2/2, 2/5 | Energy | 3 |
| 4 | 2/7 | Global Warming | 3 |
| 4 | 2/9 | Global Circulation | 4 |
| 4 | 2/12 | 1st Test, Global Circulation | 4 |
| 5 | 2/14, 2/16 | Temperature | 5 |
| 5, 6 | 2/19, 2/21, 2/23 | Moisture | 6 |
| 6, 7 | 2/26, 2/28, 3/2 | Stability | 7 |
| 7, 8 | 3/3-3/11 | Spring Break | |
| 8 | 3/12 | Condensation | 8 |
| 9 | 3/14 | 2nd Test, Condensation | 8 |
| 9 | 3/16 | Precipitation | 9 |
| 9, 10 | 3/19, 3/21 | Pressure | 10 |
| 10, 11 | 3/23, 3/26, 3/28 | Wind | 11 |
| 11 | 3/30 | Air Masses | 12 |
| 11 | 4/2 | Synoptic-scale Weather | 13 |
| 12 | 4/4 | Surface (MSLP) Map Analysis | 14 |
| 12 | 4/6, 4/9 | Upper Level Flow | 15 |
| 13 | 4/11 | 3rd Test, Weather Forecasting | 16 |
| 13 | 4/13, 4/16 | Hurricanes | 17 |
| 14 | 4/18, 4/20 | Thunderstorms | 18 |
| 14, 15 | 4/23, 4/25 | Tornadoes | 19 |
| 15 | 4/28, 4/30 | Global Climate Change | 20 |
| 16 | 5/2, 5/3 | Reading days | |
| 17 | 5/4 | 11:30 – 2 pm, Friday, Final Exam | |