Course title and number: ATMO 201, Introduction to Atmospheric Science
Term: Fall 2010
Meeting times and location: MWF 1:50 PM-2:40 PM, Eller O&M 112

Course Description and Prerequisites
This course will explore the structure, energy, and motions of atmospheres, including especially the Earth’s; the Earth’s climate and the concept of climate change; fronts and cyclones; atmospheric stability; clouds and precipitation; and severe storms.

By the end of the course you should:

- Be able to identify and explain the weather phenomena we witness and the physical processes responsible for these phenomena so you can relate them to your experience.
- Be able to describe the structure, composition and dynamics of the atmosphere so you can explain the weather to others.
- Be able to describe the reasons our atmosphere is different from atmospheres of other planets, and how our climate has changed and can change.
- Have a deeper appreciation for the forces acting and motions occurring in the atmosphere to produce the various weather and climate conditions that you may experience.

Prerequisites: None

Instructor Information
Name: Dr. Mark T Lemmon
Telephone number: 458-8098
Email address: lemmon@tamu.edu (use “ATMO201” in subject for faster response)
Office hours: MW 2:50-3:30 or by appointment
Office location: Eller O&M 1205C

Textbook and Resource Material

Grading Policies
Grades will be based on 5 midterm exams and 1 comprehensive final exam, all equally weighted with the lowest score dropped*. The grading scale will be 90% for an A, 80% for a B, 70% for a C and 60% for a D; the percentages may be revised downward at the discretion of the instructor.
*: Attendance on 12/6/2010 IS REQUIRED for the final exam to be dropped.
You are referred to the Student Rules regarding Academics at http://student-rules.tamu.edu.

Course Topics and Approximate Dates
Readings will be assigned in class. For updated schedules see http://www.met.tamu.edu/mars/atmo201.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Required Reading (by chapter)</th>
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<tbody>
<tr>
<td>1 (8/30)</td>
<td>Earth and planetary atmospheres</td>
<td>1</td>
</tr>
<tr>
<td>2 (9/6)</td>
<td>Energy and seasons</td>
<td>2-3</td>
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<tr>
<td>3 (9/13)</td>
<td>Temperature and humidity</td>
<td>3-4</td>
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Final exam: 14 December, 3:30-5:30.
Anticipated midterms (subject to change): Fri 9/17, Wed 10/6, Mon 10/25, Fri 11/12, Fri 12/3.
For Wed 11/24, an independent study assignment will replace the scheduled lecture.

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Texas A&M Academic Integrity statement

For additional information please visit: http://www.tamu.edu/aggiehonor

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”