

Weather and Climate
AOS 101 – Discussion Section 305
Spring 2008 Syllabus

Instructor:

Dan Hartung
Room 1421 AOSS, 1225 W Dayton St (14th Floor)
Email: dchartung@wisc.edu

Discussion:

Fridays, 8:50-9:40 AM, Room 823 AOSS Bldg

Class Website:

<http://www.aos.wisc.edu/~dhartung/aos101.html>

Office Hours:

Mondays: 1:30-3:00 PM --- Room 1421 AOSS

Grading:

- Weekly homework assignments (50%)
 - Approximately 10 short homeworks will be assigned on material presented in discussion and due the following week
- Quizzes (10%) (2 @ 5% each)
 - One cumulative quiz will be given approximately 5 weeks into the course and another after about 10 weeks (dates will be announced at least one week in advance)
- Individual Case Study (20%)
 - For the last 3 weeks of class, students will analyze a unique extratropical cyclone and write a short paper due on the last day of class (May 9th)
- Greenhouse Debate (10%)
 - On March 14th, students will participate in a debate on climate change (global warming). Students will be graded on participation in the debate and are required to submit a short write-up due March 28th
- Attendance / Participation (10%)
 - Attendance and participation are essential for a student's success in this discussion section. One absence will be excused, and therefore all others will count against the student's participation grade.

Your discussion section grade will make up one-quarter (25%) of your total AOS 101 grade with the other three-quarters (75%) coming from lecture homework and exams.

Late Homework Policy:

Homework is to be turned in at the beginning of class on the due date. I will only accept one late homework assignment, which **MUST** be turned into me (in person or in my mailbox located on the 8th floor of the AOSS building) by 12:00 PM on the Monday after the due date. After one late assignment, I will still take your

assignment by 5 PM on the due date, but only for half credit. Exceptions will be made in extreme circumstances.

Required Materials:

-Colored Pencils

Special Accommodations:

McBurney students who need special accommodations for quizzes or projects please provide an official visa from the McBurney Student Center to the TA by the end of the second week of class.

Objectives:

This course is intended to complement Prof. Martin's lecture. Many topics you learn here will not be covered in lecture, but they will help you understand the concepts taught in lecture, as well as provide for an additional understanding of weather and climate. Thus, **it is important that you attend discussion every week!** I hope to make this lab section both as fun and interesting as possible, so please bring questions and comments to discussion. Also, if there is anything specific you'd like to learn more about, don't hesitate to ask in discussion or at my office hours.

Regarding my office hours: Please come to ask questions about homework and topics from our lab section, as well as Prof. Martin's lecture material. If you can't make the time I have allotted for office hours, just send me an email and we will try and meet at a time that works for both of us. **Email is by far the best way to reach me!**

Tentative Course Outline:

January 25 th -	Introduction
February 1 st -	Weather Observations
February 8 th -	Data Analysis (Contouring)
February 15 th -	Ideal Gas Law
February 22 nd -	Heat (Energy) Transfer
February 29 th -	Radar and Satellites
March 7 th -	Introduction to Climate Change
March 14 th -	In-Class Climate Change Debate
March 21 st -	SPRING BREAK!!!
March 28 th -	Moisture and Atmospheric Stability
April 4 th -	Severe Weather
April 11 th -	Atmospheric Force Balances
April 18 th -	Thickness and Thermal Wind
April 25 th -	Surface Cyclone Structure
May 2 nd -	Vertical Cyclone Structure
May 9 th -	Material Wrap-up / Evaluations (LAST DISCUSSION)

