Atmospheric Science 202: Weather Briefing (1 cr.)

Lab 1: MW 3:00-3:50
Lab 2: TR 3:00-3:50

Instructors:  
Rebecca Ebert (MW)  
Brian Pettegrew (TR)

Office Hours:  
When available (8 a.m. to 6 p.m.) and by appointment (email)  
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Brian’s email: bpp4y8@mizzou.edu

Prerequisite:  
Atmospheric Science 50 (or permission)

Required Tools

1. Pencil with a good eraser!  
2. Basic set of colored pencils!  
3. Calculator: a basic calculator should be sufficient

Class Overview

Throughout the semester, we will cover meteorological charts and maps in order to prepare a weather briefing, which will include aviation weather briefings. We will cover a new topic at the beginning of each week and have an assignment each week to supplement the topic. There will also be a short quiz on selected weeks. The bulk of your grade will come from two required briefings, which will be presented and commented on during selected classes.

Grading

The following 4 components will go into your final semester grade.  
Class Participation: 10%  
Lab Assignments: 30%  
Quizzes: 20%  
Weather Briefings: 40%
**Class Participation (10%)**

As this is a lab class, attendance is mandatory. It is a small class and I will know who is at class. You are expected to be present unless you have made PRIOR arrangements with me. Showing up to every class counts toward your participation grade. Asking questions and making comments during class also helps. During briefing times, filling out comment sheets for other presentations is a requirement toward the participation grade.

**Lab Assignments (30%)**

Each week (not including briefing times), there will be an assignment. The assignment will cover the topic discussed in the lecture of the previous class. You will most likely have time on the day the assignment is given to work on the lab in class; however, the lab will be due the following week (which could change depending upon the assignment). Since you are given a week to do the assignment, late labs will not be accepted unless of an emergency.

**Quizzes (20%)**

There will be an announced quiz roughly every other week. This quiz can cover the previous couple of lectures and will be multiple choice or short answer. Each quiz will be equally weighted. The quizzes should take no more than 10 to 15 minutes to complete and will be given at the beginning of the class period.

**Weather Briefings (40%)**

The bulk of your grade will come from two weather briefings. The first one will be assigned halfway through the semester and the final briefing will come on the last weeks of class. The first briefing will be weighted less than the last briefing due to the amount of material that will be covered. The briefings are to be done in pairs and be done in advance of your assigned date to present. More information will be given to you on specific criteria closer to the presentation week.

**Notes**

This syllabus, along with the attached calendar, is tentative and can change at any time. The changes will be announced in class. The class is geared toward atmospheric science majors and those with basic meteorological knowledge.
Class Calendar*

Jan 20-22: Introduction to Course and METAR

Jan 26-29: Station Models - **Quiz: 50 States and Canada**

Feb 02-05: Surface Maps, Map Symbols, Isoplething - **Quiz: Station Model**

Feb 09-12: Weather Depiction and Misc. Maps

Feb 16-19: Intro Satellite and Radar

Feb 23-26: Aviation Weather Material – Reading TAFS and TWEBS


Mar 08-11: **General/Light Aircraft Briefing**

Mar 15-18: **General/Light Aircraft Briefing**

Mar 22-25: Spring Break!!!

Mar 29-Apr 01: Upper Air I (850, 700mb)

Apr 05-08: Upper Air II (500, 300, 200)

Apr 12-15: Intro to Skew T’s and other thermo charts - **Quiz: Upper Air Charts**

Apr 19-22: Intro to Models, Jet Aircraft Summary - **Quiz: Thermo Charts**

Apr 26-May 06: **Final Weather Briefing (including jet aircraft)**