

# **Agronomy 406**

## **World Climates**

**February 20, 2018**

Active review session for midterm exam.

Thursday (Feb 22): Midterm exam

# Suggestions to improve your grade

**Study together** - in your teams, or with other classmates.

Challenge each other to explain concepts. “The first principle is that you must not fool yourself – and you are the easiest person to fool.” (Richard Feynman)

Answer practice questions: All submitted questions are on Canvas. Also make up your own questions.

Answer practice questions individually first.

Read "**Ten tips for answering essay questions**" linked from the class Canvas page.

**Please** see Alex or me if you need help with any concepts in the course!

Alex will have office hours Wednesday, 1-4 pm. If you want to meet with me it's best to arrange a time.

# Active review session for the midterm

Each team will answer two questions.

- The question first will be answered by individuals on each team.
- After each person turns in their answer, discuss among your team members. Then formulate a team answer.
- We will compare answers across the teams.

The format is like a dress rehearsal for the exam:

- You will have limited time (about 15 minutes) to answer each question.
- Closed book, no calculators, no materials other than a pencil and eraser.
- Answers will be graded as an in-class assignment.

# First question

## Teams 1, 2 and 3:

What is the difference between sensible heat flux and latent heat flux? As part of your answer *briefly* explain the mechanism by which each of these processes transports energy.

## Teams 4 and 5:

Why is it possible to have a dry well when there is still water present in an aquifer?

# Second question

## **Teams 1 and 2:**

Briefly describe the processes in the atmosphere and ocean that cause an El Niño to develop, and the resulting effects on climate of the tropical Pacific Ocean region.

## **Teams 3, 4, and 5:**

If you were sailing a ship across the Atlantic from France to Florida (no motor, movement only by wind and current) what route would you take and why? Would your return route from Florida to France be the same? Why, or why not?