

# **AS200B Introduction to the Dynamics of the Earth System**

## **Fall 2006**

Alex Hall ([alexhall@atmos.ucla.edu](mailto:alexhall@atmos.ucla.edu))

**Thursday 9/28** Introduction to the Earth System (Hartmann, 1)

**Tuesday 10/3** Introduction to the Earth System (cont.)

**Thursday 10/5** The Global Energy Balance (Hartmann, 2)

**Tuesday 10/10** Radiative Transfer and Climate (Hartmann, 3) Homework #1 due

**Thursday 10/12** Radiative Transfer and Climate (cont.)

**Tuesday 10/17** Atmospheric Circulation (Hartmann, 6.1-6.3)

**Thursday 10/19** Atmospheric Circulation (Hartmann, 6.4-6.5)

**Tuesday 10/24** Hydrologic Cycle (Hartmann, 5) Homework #2 due

**Thursday 10/26** Hydrologic Cycle (cont.)

**Tuesday 10/31** Surface Energy Balance (Hartmann, 4)

**Thursday 11/2** Ocean Circulation (Hartmann 7.1-7.4)

**Tuesday 11/7** Ocean Circulation (Hartmann, 7.5-7.8) Homework #3 due

**Thursday 11/9** Fronts

**Tuesday 11/14** ENSO

**Thursday 11/16** ENSO

**Tuesday 11/21** Paleoclimate (Hartmann, 8) Homework #4 due

**Tuesday 11/28** Climate Sensitivity (Hartmann, 9)

**Thursday 11/30** Climate Modeling (Hartmann, 10-11)

**Tuesday 12/5** Climate Change, (Hartmann, 12) Homework #5 due

**Thursday 12/7** Climate Change (cont.)

### Grading

Homework, 60% (12% for each assignment), final exam, 30%, class participation and attendance, 10%

Homework is assigned one week in advance of due dates noted above.