

AOS201A Geophysical Fluid Dynamics

Winter 2007

Alex Hall (alexhall@atmos.ucla.edu)

This course covers fluid dynamics as applied to the earth's fluid envelope. The text is Fundamentals of Geophysical Fluid Dynamics, by Jim McWilliams.

Below is a rough schedule. See the book for corresponding topics.

Week 1 Chapter 1, Section 2.1

Week 2 Sections 2.2, 2.3

Week 3 Sections 2.4, 3.1

Week 4 Sections 3.2, 3.3

Week 5 Sections 3.4-3.7

Week 6 Sections 4.1, 4.2

Week 7 Section 4.3, 4.4

Week 8 Section 4.5-4.8

Week 9 Section 5.1, 5.2

Week 10 Sections 5.3, 5.4

Grading

There will be five homework assignments and a final exam. Homework is worth 70% of the grade (14% for each assignment), and the final exam is worth 30%.

Homework is assigned one week in advance of its due date.