

AOSC 610: Dynamics of Atmosphere and Ocean-I

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Room & Time CSS Bldg., Room 2428; 9:00-9:50am (M,W,F)
Extended meeting times (up to 10:30) when make-up lectures needed

Course Objective AOSC 610 is the first of a two-semester course sequence on Dynamics of the Atmosphere and Oceans. It is a core course of the graduate program, and seeks to introduce the basic dynamical and thermodynamical principles governing geophysical flows. Quantitative analysis and rigor characterize the course, with the development of mathematical analysis skills being a sought outcome.

Your coordinates and interests

Please send me an email with your contact information; include "AOSC 610" in the title line. Mention current research interests, name of your advisor, degree sought, and a list of other courses being taken this semester. Let me know if you are auditing the course.

Course format

Home work assignments	25%
2 Mid-term exams (at approx. 4 week intervals)	40%
Final Exam	35%

Books

▪ *An Introduction to Dynamic Meteorology* — James R. Holton
Chapters 1-6; 4th Edition, Academic Press, 2004; ISBN 0123540151.

The 5th edition of this book with some rearrangement of chapters is now available. New authors: Holton & Hakim; ISBN-13: 978-0123848666

▪ *Introduction to Geophysical Fluid Dynamics* —
Benoit Cushman-Roisin; Chapters 1-5, 8; Prentice Hall, 1994;
ISBN 0133533018