

Syllabus OCN667 and OCN668

Advanced Geophysical Fluid Dynamics I and II

This course covers the theoretical foundations of geophysical fluid dynamics.

Prerequisites are:

Marine Hydrodynamics (OCN 662)
Ocean Waves I (OCN 660)
Introduction to Geophysical Fluid Dynamics
Numerical Modeling

Otherwise, the consent of the instructor is required. The classes will consist of lectures by the instructor, classroom discussions, and presentations by students. Discussions and presentations will be based on the book

“The Equations of Oceanic Motions” by Peter Müller

Cambridge University Press, ISBN-13 978-0-521-85513-6

<http://www.cup.cam.ac.uk/catalogue/catalogue.asp?isbn=0521855136>

Grading will be based on presentations, homework assignments, and participation in classroom discussions.