

Submit originals and one copy and electronic copy to Governance/Faculty Senate Office

UNIVERSITY OF CALIFORNIA, BERKELEY

6. CURRENT CATALOG DESCRIPTION AS IT APPEARS IN THE CATALOG: including dept., number, title and credits

[REDACTED]

Include information on the Programs/Departments contacted (e.g., email, memo)

None

13. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

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Fundamentals of Geophysical Fluid Dynamics

PHYS ⁶⁴⁷F645; ATM ⁶⁴⁷F645 F01 Fundamentals of Geophysical Fluid Dynamics

Instructor: David Newman

Office: 112 REIC

Home Phone: 458-8576 (if all else fails!! But please not after 11 PM)

Email: dnewman@alaska.edu

Office Hours:

Monday 2:00-4:00pm in 112 REIC

Wednesday 2:00-4:00pm in 112 REIC

Course Description: Fundamentals of Geophysical Fluid Dynamics deals with large-scale fluid motion on a rotating body (i.e. a planet). Often, the rotation, stratification and surface curvature place important constraints on the dynamics of the fluid. These "fluids" can be oceans.

are involved in, as well as general topics of interest and importance in GFD. The topic must be agreed to by Feb 11th and must be completed by April 22nd. They will be graded both for presentation and content. More details will be discussed in class.

Exams: Exams will be take home exams: Check back for more details and dates.

the following components:

- 2 take home exams 30 %
- Homework 50 %
- Project 20 %

Contacting Me: I have office hours as listed above. You can drop by at other times if I'm not busy, or make an appointment. I am (almost) /never/ available before class.

Special Needs: The Office of Disability Services implements the Americans with Disabilities Act (ADA) and insures that UAE students have equal access to the campus and course materials

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Lecture 27 – Ekman Layers and Ekman Pumping
Lecture 28 & 29 – Ekman Pumping
Lecture 30, 31, 32, & 33 – Stratification; Homework #5
Lecture 34, 35, 36 – Stratification: Exam II Distributed
Lecture 37 & 38 – Solitons and Introduction to Turbulence

Lecture 41 –Project Presentations