

Geology 12 - Physical Oceanography Tu 6:30-9:30

INSTRUCTOR

Douglas Given, U. S. Geological Survey @ Caltech

Office hours: Before and after class or call for appointment
PCC Office: Building E, room 210A (across the hall from classroom)
Caltech Office: 525 So. Wilson Ave., Pasadena, CA (626) 583-7812
E-Mail: given@caltech.edu
Web Page URL: pasadena.wr.usgs.gov/office/given/geo12 (“geo-twelve”)

COURSE PURPOSE

We will survey a broad range of topics related to physical ocean science. This is NOT marine biology; we will spend very little time discussing life in the oceans. We will emphasize understanding the dynamic systems of the oceans, the atmosphere, and the earth. We will learn and apply the methodology, terminology, and techniques used by scientists. Concurrent enrollment in the field class, Geology 12F (field) or 12L (lab), is encouraged but not mandatory.

REQUIRED MATERIALS

Textbook: **Essentials of Oceanography (9th Edition)** by Trujillo and Thurman.

Lab Assignments: **print PDF files from Web Site and bring to class.** Scan-trons for exams and various outside resources such as calculator, maps, atlases, etc. for exercises.

GRADING

You **earn** your final course grade based on the total points you receive on the work you turn in. Absence does not excuse you from completing work.

Percent	Points	
17%	100	Labs & exercises (in class and take-home)
17%	100	On-line Reading quizzes
10%	60	Assessment Activities
17%	100	Mid-term Exam
25%	150	Final Exam
14%	80	Class attendance
100%	590	Total (90%=A, 80%=B, etc. adjusted by a curve)

Cheating will result in an “F” in the course. Under exceptional circumstances it may be possible to take an exam EARLY if arrangements are made IN ADVANCE.

EXPECTATIONS

Show up. Be on time. Stay to the end. Do the work! You’ll have much more fun if you are interested in how the world works, rather than in getting a grade. Don’t bail at the break. If you are late, slink in quietly; don’t disrupt the class. Role will be taken every class session after the break. The instructor may drop you from the class if you miss **six hours** of class time. Expect to spend 3-4 hours/week outside of class on work for this course. Before each week begins you must read the chapter and complete the on-line quiz. It is your responsibility to print and bring each lab. Read each lab introduction before class.

Please, silence your cell phones during class – no iPod use during lab time.