

Earth Sciences 4/4H: Introduction to Oceanography

Fall 2012

Professor: David Valentine 2017 Webb Hall 893-2973

Office Hours: Mon 11:00-1:00, Webb Hall Room 2017

Undergraduate Assistant: Alice MaCall, Webb 1006A, 893-4831, amacall@geol.ucsb.edu

Required Materials:

Oceanography An Invitation to Marine Science Custom UCSB, 7th ed, Tom Garrison.
Oceanography Workbook for Spring 2012 (available at AS Notes).

Lecture: M, W 2:00 - 3:15 PM, Buchanan 1910.

Exams: Midterms: Monday, October 22 and Monday November 19.
Final: Monday December 10th 4-7PM (Buchanan 1910).

Grading: Midterm 1 (20%)
Midterm 2 (20%)
Labs (15%)
Final (45%)

Holidays: Mon, Nov 12
Th/Fri, Nov 22/23

Course webpage: Somewhere in GauchoSpace...

Lab/discussion section: 1 hour per week; you must register for a section (this includes 4H students). Students are responsible for reading the course text and the lab reader prior to showing up for lab and for showing up at the designated meeting places (PSB-S 2724/2711, the computer lab in Webb Hall 1015, or at Campus Point) at the appropriate times.

Teaching Assistants: Andy Rich <arich@umail.ucsb.edu>, Tyson McKinney <tyson549@gmail.com>, Sophie Briggs <sbriggs@umail.ucsb.edu>

Division of labor/responsibilities of Valentine and TA's

Valentine is responsible for lecturing, writing the exam questions relating to the lectures, and having office hours devoted to answering questions about the material covered in the lectures. The TA's are responsible for running the lab/discussion sections, grading the exams and labs, and having office hours devoted to answering questions about the material presented in the lecture and labs.

Missed Exams: Exams will not be offered early under any circumstances. Credit for missed exams will only be given for a legitimate and verifiable medical emergency.

Tentative Course Calendar:

10/1, 10/3: Intro; Origin of Earth and Oceans (Chap 1); Section: Lab 1.

10/8, 10/10: History of Oceanography (Chap 2); Plate tectonics, (Chap 3); Section: Lab 2.

10/15, 10/17: Plate tectonics, (Chap 3); Section: Lab 3.

10/22, 10/24: **Midterm 1 (10/22)**, Water, Seawater and Chemistry (Chap 6); Section: TBD

10/29, 10/31: Water, Seawater and Chemistry (Chap 7); Section: Lab 4.

11/5, 11/7: Circulation of the Atmosphere (Chap 8); Section: Lab 5.

11/12, 11/14: **Holiday (11/12)** Circulation of the Ocean (Chap 9); Section: concept review.

11/19, 11/21: **Midterm 2 (11/19)** Circulation of the Ocean (Chap 9); Section: Lab 6*.

11/26, 11/28: Waves (Chap 10); Section: Lab 7.

12/3, 12/5: Primary Production/Environmental Issues (Chap 18); Section: Lab 6/Final Review**

12/10: Final Exam, 4-7PM, Buchanan 1910.

* Because of the Holiday on Th, 11/22, scheduled sections will not meet. The make-up for lab 6 will be on Th, 12/6, at the regularly scheduled section time.

** Students may attend any section on Tu/W (12/4 and 12/5) for a final review. Sections on Th 12/6 are reserved for a make-up lab.