

Geol 225-001 & ESC 225-001, Syllabus**Fall, 2005**

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Textbook: Invitation to Oceanography by Paul R. Pinet, 2003**References:** As assigned in class

Course Objective: The course will introduce you to the discipline of Oceanography. Items that will be discussed include origin and physiography of ocean basins, chemical and physical properties of sea water, causes and patterns of oceanic circulation and interaction with the atmosphere, biological interactions and life zones of the ocean and factors delimiting them, and human presence in the ocean.

Office hours: Tu, Th. 11:00-11:50**LECTURE SCHEDULE, Tentative:** Aug. 23 -Dec.; Tu, Th : 9:25 - 10: 40 AM ; Grote 327

Date: Tu Th	Lecture subject	Reading	Week
Jan 6	Asian Killer Tsunami of Dec 26/04	Handout	1
11	Geologic time, Plate tectonics , Indian Ocean	Handout	2
13	History -and Planet Oceanus	Ch 1 & 2	
18	Origin of Ocean basins	Ch. 3	3
20			
25	Marine sedimentation	Ch. 4	4
27			
Feb 1	Marine sedimentation	Ch. 5	5
3	Test 1		
8	Properties of sea water	Ch. 6	6
10			
15	Waves in the ocean	Ch. 7	7
17			
22	Tides	Ch. 8	8
24			
March 1	Marine ecology	Ch. 9	9
3	>>		
8	Spring Break		10
10	>>		
15	Biological productivity in the ocean	Ch. 10	11
17	Test 2		
22	The dynamic shoreline	Ch. 11	12
24	>>		
29	Coastal habitats	Ch. 12	13
31	>>		
April 5	Ocean's Habitat	Ch. 13	14
7	>>		
12	Ocean's resources	Ch. 14	15
14	>>		
19	Human presence in the ocean	Ch.15	16
20			
April 26	Final Exam : Tuesday 8:00 to 10 AM		

Report papers.

Reports should not exceed three type written pages. Use at least two sources outside of the textbook to enrich your essay. Select any two from the following three topics and submit the reports before the due date or loose a point for each day late.

Paper#1. Write a report on " The nature and origin of ocean floor rocks". Report is due before February 3.

Paper# 2. Write a report on "Ocean-atmosphere coupling". Report is due before March 1. □

Paper #3. Write a report on "The role of carbon in the ocean realm". □Report is due before April 5.

Reference format of papers. Use the same format as given in the textbook when entering references of journal articles and books. When using references from the web, firstly make sure that reference is credible (e.g., sites at NASA, USGS, NOA are credible), Secondly, enter the URL in the reference section and identify each URL by a number so that you may use the number when citing it in the text. Also, attach copies of the web materials used by you

in the report.

Grading of papers. Each assignment below is worth 15 points of overall grade. The work will be graded as follows

- Typed 2.pts
- Correct way of presenting reference 2.pts
- Citation of references within the text 1.pt
- Major point of the report presented in the introduction 2.pts
- Correct points described including those not mentioned in class 5.pts
- Well organized presentation 2.pt
- Syntax 1.pt

Overall Grade Distribution

<input type="checkbox"/> tests	40%
<input type="checkbox"/> papers	30%
<input type="checkbox"/> final exam	30%
<input type="checkbox"/> total	100%

Grading policy : Tests will be successively cumulative, and the final will be comprehensive

Grades : A = 90-100; B = 80 - 89; C = 70 - 79; D = 60-69, F < 60.

Attendance Policy . Students are required to attend all classes. Attendance will be taken irregularly. But, absence in more than three classes may lead to a grade of zero in the attendance part of the grading policy.

ADA Statement:

If you are a student with a disability (e.g., physical, learning, psychiatric, vision, hearing, etc.) and think that you might need special assistance or a special accommodation in this class or any other class, call the Office for Students with Disabilities/College Access Program at 425-4006 or come by the office - 110 Frist Hall.