

EEB 187 - INTRODUCTION TO MARINE SCIENCE - SUMMER 2009

Personel:

Vicente Cassano Ph. D. (Instructor) Asif Razee (TA) Chris Chabot (TA)
Office Hrs: 9-10A T1 - 2; W 10-11
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LECTURES TR 10:30 AM – 12:50 PM MS 5200

Course Description: This course examines aspects of marine chemistry, physics, geology and marine biology, the major components of the scientific study of the oceans, with emphasis in the study of marine organisms and the ecology of selected communities.

TEXTBOOK: Nybakken, J.M., and M.D. Bertness. 2004. Marine Biology: An Ecological Approach. 6th Edition. Benjamin Cummings, San Francisco. 579 pages.

GRADING: Grades will be attributed on a straight curve:

Limits: A 90%; B 80%; C 70%; D 60%; F < 60%.

Grades are determined from a midterm exam, a final exam, five quizzes, and two field trips.

Lecture Exams: These will be mostly short answer/essay, but may include multiple choice, true/false, and problem solving. There are two lecture exams on the dates indicated below, a midterm and a final exam. The FINAL exam will be similar to the midterm exam and is not cumulative. Exams will cover material from lectures and readings, strongly emphasizing the material covered in lecture. Students who require special arrangements for taking exams must prepare for this with the Office of Students with Disabilities in advance, and let me know at least one week prior to the exam to assure that appropriate arrangements can be made.

There will be no make up exams unless the student can provide written verification of illness or family emergency.

GRADED ASSIGNMENTS AND POINT BREAKDOWN:

Five discussion quizzes	(200 pts)	(40 points each weekly quiz)
Two field trips:	(100 pts)	TBA
Midterm exam:	(200 pts)	Tuesday July 14 10:30A – 12:50P
Final exam:	(300 pts)	Thursday July 30 10:30A – 12:50P

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Tentative Lecture Schedule

DATE	LECTURE	READINGS (pages)
Week 1		
Tu Jun 23	Introduction Chemistry of seawater	1-6
Th Jun 25	Air sea interactions boundary layers Currents and waves Geography and Geomorphology	7-19
Week 2		
Tu Jun 30	Phytoplankton, Harmful Algal Blooms Zooplankton	42-48 48-60
Th Jul 2	Primary production	61-98
Week 3		
Tu Jul 7	Invertebrates	
Th Jul 9	Fishes and other vertebrates	
Week 4		
Tu Jul 14	MIDTERM	
Th Jul 16	Seaweeds and kelp forests Intertidal communities	221-233 267-277, 371-374
Week 5		
Tu Jul 21	Intertidal communities	277-306
Th Jul 23	Estuarines communities Coral reef communities	361-371, 374-381 407-453
Week 6		
Tu Jul 28	Deep sea communities	144-155, 175-187
Th Jul 30	FINAL EXAM	