

BIO 64 L- The Living Sea

Course Overview and Requirements

Instructor: Cheryl Baduini

Office: Keck Science Center 13 (Basement)

Phone: X18816

e-mail: **Please post e-mails to Course WebCT page**, Other (cbaduini@jsd.claremont.edu)

Overview: This course will cover major topics in marine biology and will concentrate on the coupling of physical and biological processes in the marine environment. We will also explore how climate interacts with the marine environment and recent changes that have occurred in our oceans due to anthropogenic influence. Beginning with physical and chemical processes in the ocean which influence the ecology and biology of marine organisms, next we will discuss major groups of marine taxa, from single-celled phytoplankton through marine invertebrates (zooplankton and intertidal organisms) and vertebrates (fish, birds, and mammals). The information about major taxonomic groups will be presented in an ecological context (how these organisms interact and are influenced by their environment and other organisms). Additionally, we will explore and discuss the structure and function of particular marine habitats. The lab portion of the class will focus on identification, distribution, and diversity of local southern California marine organisms and techniques used by fisheries biologists for assessing marine populations. In the lab, we will also investigate new tools, such as satellite imagery, that are currently being used by oceanographers for gathering information about the interactions between the atmosphere and oceans.

Textbooks:

Lecture:

Marine Biology, Fifth Edition, by P. Castro and M.E. Huber

McGraw-Hill Publishers, copyright 2004

Lab: Marine Life of Southern California, Second Edition, by D.J. Reish, Kendall/Hunt Publishing Company, copyright 1995

Course Web CT: Bio 64L-The Living Sea

webct.claremont.edu (Attn: New WebCT address and you will need to create a new user ID)

Please enroll yourself by the end of this week (Fri. 3 Sept)

Please post general messages to the bulletin board and I will answer

Please post e-mail to account in CT web page/I will check at least one time per day

You will need to have ADOBE ACROBAT READER installed to review lecture notes and files in Web CT

BIO 64 L- The Living Sea

Course Overview and Requirements

Exams:

Lecture: 3 Exams

Exam I 100 points

Exam II 100 points

Final 200 points

Final is concentrated on latter 1/3 of lecture/lab material BUT CAN INCLUDE material from entire semester

Exams will be a combination of multiple choice, short answer/essay, and one essay (1/2-3/4 page each).

Although most of the lectures and exam material will contain topics from the readings listed in the syllabus, you also will be responsible for supplementary materials and handouts presented in lecture. Additionally, you will be responsible for any topics covered in the lab that may be incorporated into exam questions.

Sample Exam questions-Posted on WebCT

Grading: Grades will be scaled relative to class performance. There will be no oral appeals for grade changes. If you believe a portion or portions of your exam have been graded unfairly, you must submit a written explanation within one week of receiving your grade for why you believe a particular question(s) should be regraded. Once the one week time period has elapsed, there will be no consideration for regrading exams.

Labs: The lab portion of the class is designed to help you learn about how marine research is conducted as well as give you some experience with sampling and experimental design, constructing and reading graphs, and performing basic statistics on data collected during labs and field trips. We will not meet every week and some weeks will extend beyond the scheduled time period (see attached lab syllabus schedule). **There will be two mandatory field trips that will take us down to the coast.** One will be an all-day pelagic sampling boat trip off Dana Point, aboard the R/V Sea Explorer. The other will be an afternoon field trip to Corona del Mar. Transportation for off-campus field trips will be provided by bus and everyone is required to take the bus down to the coast. **It is important that you consult with the instructor as soon as possible if you have a conflict with any of the field trips.**

BIO 64 L- The Living Sea

Course Overview and Requirements

Three lab write-ups due: Properties of Seawater Lab	50 points
Pelagic Trip Lab Report	100 points
Rocky Intertidal Lab Report	100 points
Field Trips (will contribute 10% to final grade)	25 points/each

Handout of guidelines for writing an appropriate Lab Report Posted on Web CT

I expect lab reports to be turned in on time. If you have an extenuating circumstance and cannot turn in your report on time, you must contact me immediately. Procrastination and lack of planning on your part is not an extenuating circumstance and you will be penalized 5 points/day for overdue lab reports.

Class Attendance: You are strongly encouraged to attend lectures and labs because most of the material (90%) covered in class will be on the exam (the other 10% may come from reading assignments in textbook and/or handouts). Attendance on Field Trips and Class participation will contribute to 10% of your final grade (ie: You can earn points just by showing up for class-How great is that?!!!)