Chaminade University
Fall 2000

LECTURE AND LAB SYLLABUS
INTRO TO MARINE BIOLOGY, BI 115 and 115L

Instructor — **Randy Honebrink** (Phone **587-0111 (b); 947-4543 (h); email** hono1999@aol.com)

Meeting Dates/Times — **Oct 2 - Dec 15; Lecture M,W 1645-1850, Lab Sa 0800-1210**

Course Description — **Introduction to Marine Biology is a 3-credit course which surveys the major areas of marine biology with emphasis on the structure and function of marine organisms, their interaction with their environment, and human impacts on the marine environment on a local and global scale. Topics include: physical properties of the marine environment, biodiversity, anatomy, physiology, behavior, and ecology. The 1-credit Biology 115L lab must be taken concurrently with lecture.**

Course Objectives — **At the end of this course, the student will have: 1) an understanding of some basic concepts of marine chemistry and oceanography; 2) an** enhanced appreciation of marine biodiversity and habitats; **3) an understanding of how marine organisms are adapted to various habitats; and 4) general knowledge of the field of marine biology.**

Required Text — *Marine Biology*, **(3rd ed.), by Castro and Huber, McGraw Hill, Boston.** 2000. **There is no laboratory manual; lab handouts will be provided.**

Grading — **Lectures and labs are graded separately. Lecture grades will be based on your performance on weekly quizzes, four biological summaries, a final exam, and class participation and attendance (P/A). Quizzes** will be given each Monday **and cover material presented the previous week. Lab grades will be based on lab write-ups and assignments placed in a lab notebook, a practical exam covering lab topics, and participation and attendance.**

LECTURE		LAB	
Quizzes (8 @ 30)	240 pts	Lab notebook	180 pts
Summaries (4 @ 20)	80 pts	Lab practical	50 pts
Final exam	100 pts	P/A	20 pts
P/A	30 pts		
TOTAL	450 pts	*TOTAL*	250 pts

Grading scale: 90%=A; 80%=B; 70%=C; 60%=D

Attendance

Attendance is expected for each lecture and lab. Attendance for labs is especially important, as labs cannot be made up. Unexcused absences for **lectures or labs will result in grade penalties to be determined by the instructor. Exams missed because of unexcused absences also cannot be made** up. **Excused absences should be documented, e.g. physician's note. Early exams will not be given.**

Article Summaries

Four summaries of articles related to current topics of marine biology will be required at times indicated on the course schedule. Up to two of the summaries may be on a particular marine species. Each summary is worth 20 points, included in the lecture grade. Summaries must be from a newspaper, journal, magazine, or electronic source not more than two years old, and pertain to marine biology. Each summary should be one to two pages long, word processed or typed, and double spaced. The summary must include author, title of article, source, date of publication, and page numbers. For web site publications, include author (if known), title, last date updated, URL, and date accessed. You must include a xerox copy of the article with your summary, or a print-out of a web site source.

Lab Notebook

You should have separate notebooks for lecture and lab. The lab notebook should be bound (spiral is acceptable), and will be used for observations, drawings, notes, data, and answers to questions on lab handouts. The notebook will be graded from time to time during the course.

Academic Honesty

Students are expected to comply with the rules governing academic honesty as published by Chaminade University. Students involved in cheating or plagiarism will be issued failing grades for the exam or assignment in question.

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TENTATIVE COURSE SCHEDULE

Oct	2	M	Intro to course; sea floor	Chap. 1,2
	4	W	Properties of sea water	3
	7	Sa	Intro to lab, microscopes	
	9	M	Business of life	4
	11	W	Prokaryotes, protists, plankton	5
	14	Sa	Plankton identification	
	16	M	Classification of organisms	
	18	W*	Seaweeds, intro to inverts	6
	21	Sa	Invertebrate behavior, dissections	
	23	M	Invertebrates, continued	
	25	W	Intertidal communities	10
	28	Sa	Field trip - Paiko Lagoon, Makapu'u Tidepools	
	30	M	Intro to fishes	7
Nov	1	W*	Fishes, continued	
	4	Sa	Fish form and function, dissections	
	6	M	Marine reptiles and mammals	8
	8	W	Intro to ecology	9
	11	Sa	Field trip - Waikiki Aquarium	
	13	M	Coral reefs	13
	15	W*	Coral biology, identification	
	18	Sa	Field trip - Coconut Island	
	20	M	Life near the surface	14
	22	W	Ocean depths	15
	25	Sa	Field trip - Anuenue Fisheries	
	27	M	Resources from the sea	16
	29	W*	Human impacts	17
Dec	2	Sa	Lab practical	
	4	M	Oceans and human affairs	18
	6	W	Review for final exam	
		Sa	Field trip - Makapu'u Point	
	11	M	Final exam	
	13	W	Reserve day	

* Marine article summaries due