Chaminade University
Winter 2012

LECTURE AND LAB SYLLABUS
INTRO TO MARINE BIOLOGY, BI 11560 and 115L60

Instructor — Randy Honebrink [email Randy.Honebrink@adjunct.chaminade.edu; phone 587-0111 (b); 947-4543 (h)]. Contact by email is preferred.

Meeting Dates/Times — Jan 10 – Mar 20; Lecture Tu 1730-2140, Lab Sa 0800-1210

Course Description — Introduction to Marine Biology is a 3-credit course which surveys the major areas of marine biology. Emphasis is on the structure and function of marine organisms, their interactions with their environment, and human impacts on the marine environment on a local and global scale. Topics include: physical and chemical 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 general knowledge of the field of marine biology, including an understanding of: 1) basic concepts of chemistry, oceanography, and biological processes; 2) biodiversity and habitats; 3) how marine organisms are adapted to and interact within these habitats; and 4) effects of humans on marine ecosystems.

Required Text — *Marine Biology*, (8th ed.), by Castro and Huber, McGraw Hill, Boston. 2010. There is no laboratory manual; lab handouts will be provided.

Grading — Lecture and lab are graded separately. Lecture grades will be based on your performance on midterm and final exams, as well as class attendance, participation, and effort (APE). Lab grades will be based on lab write-ups and assignments placed in a lab notebook, a practical exam covering lab topics, and APE. There is no opportunity for extra-credit work in either lecture or lab.

LECTURE		LAB	
Midterm exam	100 pts	Lab notebook	150 pts
Final exam	150 pts	Lab practical	50 pts
APE	50 pts	APE	50 pts
TOTAL	300 pts	*TOTAL*	250 pts

General 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. Excessive absences for lectures or labs will result in grade penalties to be determined by the instructor. Exams missed because of unexcused absences cannot be made up. Excused absences should be documented, e.g. note from superior or physician. Early exams will not be given. Electronic devices which may prove a distraction to yourself or others may not be used during class (e.g., absolutely no texting during class).

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 may be graded from time to time during the course, and will be used as a resource for part of the lab practical exam.

IMPORTANT: Chaminade requires that lab coats and shoes be worn in the labs. Disposable coats cost $5 and must be purchased at the first lab meeting. Please bring the exact amount. Lab rules prohibit food, drinks, and open-toe footwear.

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

Jan	10	T	Intro to course; sea floor	Chap. 1,2
	14	Sa (Campus)	Protists, algae	5,6
	17	T	Physical oceanography; fundamentals of biology	3,4
	21	Sa (Makapuu)	Field trip: Makapu'u; campus: invertebrates 1	7
	24	T	Microbes, algae	5,6
	28	Sa (Campus)	Invetebrates 2	7
	31	T	Intro to fishes; marine reptiles, birds, mammals	8,9
Feb	4	Sa (Campus)	Fishes	8
	7	T	Intro to ecology, **midterm exam**	10
	11	Sa (Campus)	Coral reefs	14
	14	T	Intertidal communities, epipelagic 1	11
	18	Sa (Paiko)	Field trip: Paiko lagoon	
	21	T	The epipelagic	15
	11	Sa (W Aq)	Field trip: Waikiki Aquarium	
	28	T	Ocean depths	16
Mar	3	Sa (Campus)	Systematics; review for lab practical	
	6	T	Resources and human impacts	17,18
	10	Sa (Campus)	Lab practical	
	13	T	Review for final exam	
	17	Sa (Campus)	**Final exam**	
	20	*T*	*Reserve day*	