# LECTURE AND LAB SYLLABUS INTRO TO MARINE BIOLOGY, BI 11560 and 1151 60

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Meeting Dates/Times Jan 7 - Mar 20; Lecture M,W 1645-1850, Lab Sa 0800-1210

<u>Course Description</u> 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 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 1151\_ 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.

<u>Cotting</u> 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 n

Quizzes (8 @ 30)240 ptsLab notebook150 ptsSummaries (4 @ 20)80 ptsLab practical50 ptsFinal exam100 ptsP/A50 pts

P/A 30 pts

TOTAL 450 pts TOTAL 250 pts

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

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#### 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 internet 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.

# **TENTATIVE COURSE SCHEDULE**

Jan	7 9 12	M W Sa (Campus)	Intro to course; sea floor Properties of seawater Intro to lab, microscopes	hap. 1,2
	14 16 19	M W Sa (Campus)	Living systems Prokaryotes, protists Invertebrate behavior, dissections	4 5
	21 23 26	M W* Sa	Holiday Invertebrates Classification of organisms	6
Feb	28 30 2	M W Sa (Campus)	Intro to fishes Fishes, continued Fish form and function, dissections	7
	4 6 9	M W* Sa (Campus)	Marine reptiles and mammals Intro to ecology Plankton identification	8 9
	11 13 16	M W Sa	Intertidal communities Coral reefs Field trip - Waikiki Aquarium	10 13
	18 20 23	M W * Sa	Holiday Coral biology, identification Field trip - Paiko Lagoon, <b>Makapu'u</b> Tidepoo	ls
Mar	25 27 2	M W Sa	Life near the surface Ocean depths Field trip - Coconut Island	14 15
	4 6 9	M <b>₩</b> ¥ Sa (Campus)	Resources from the sea Review for lab practical Lab practical	16
	11 13 16	M W Sa	Human impacts Review for final exam Field trip - Anuenue Fisheries Res. Ctr.	17,18
	18 20	M W	Final exam Reserve day	

<sup>\*</sup> Marine article summaries due