

SIO 3: Life in the Oceans

Winter Quarter 2016

Course Instructor:

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Teaching Assistant(s):

TBD
Office:
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Course Structure: Three lectures per week on Monday, Wednesday and Friday at 2:00- 2:50
Location: TBD

Course Description: This course will introduce you to a wide variety of organisms that live in the oceans, the habitats they occupy, and how species interact with each other and their environment. Included will be examinations of adaptations, behavior, ecology, and a discussion of local and global resource management and conservation issues. Lectures and assigned readings will be supported by discussion sections to review course information and/or participate in activities outside the classroom.

Textbook: *Marine Biology* (9th edition), P. Castro & M.E. Huber, McGraw-Hill.

Additional course readings will be assigned in class and will be available as pdf's on Ted

Grading:

Two midterm exams (multiple choice, matching and short answer format)	
Participation/attendance	= 20 points (5%)
1st Midterm	= 100 points (25%)
2nd Midterm	= 100 points (25%)
Final exam (multiple choice, matching and short answer)	= 180 points (45%)
<u>Total</u>	<u>= 400 points</u>

Discussion Sections: are mandatory and are primarily for the clarification of lecture material and readings; however, some required readings that are not discussed in class may be reviewed in section. Sections have been scheduled as follows:

TBD

SIO 3 Lecture/Exam Schedule (Winter 2015)

Date	Lecture Topic	Text Reading
1) Jan 4	Science of Marine Biology; History of Ocean Exploration	Chapter 1
2) Jan 6	Introduction; Fundamentals of Biology	Chapter 4
3) Jan 8	Microbes	Chapter 5
4) Jan 11	Seaweeds and Plants	Chapter 6
5) Jan 13	Marine Invertebrates I	Chapter 7
6) Jan 15	Marine Invertebrates II	Chapter 7
Jan 18	<i>MLK Jr. Day – NO CLASS</i>	
7) Jan 20	Marine Fishes I	Chapter 8
8) Jan 22	Guest Lecture	
Jan 25	Midterm: Lectures 1-8	
9) Jan 27	Marine Fishes II	Chapters 8
10) Jan 29	Marine Birds & Reptiles	Chapter 9
11) Feb 1	Marine Mammals I	Chapter 9
12) Feb 3	Marine Mammals II	Chapter 9
13) Feb 5	Introduction to Marine Ecology	Chapter 10 (p. 211-230)
14) Feb 8	Introduction to Physical Oceanography	Chapters 3
15) Feb 10	Intro to Intertidal Communities	Chapter 11
16) Feb 12	Coral Reefs I	Chapters 14
Feb 15	<i>President's Day – NO CLASS</i>	
17) Feb 17	Coral Reefs II	Chapter 14
18) Feb 19	Guest Lecture	
Feb 22	Midterm: Lectures 9-18	
19) Feb 24	Estuaries, Kelp Forests	Chapters 12
20) Feb 26	Epipelagic	Chapter 15
21) Feb 29	Deep Ocean	Chapters 16

- 22) Mar 2 Resources from the Oceans Chapter 17
- 23) Mar 4 **Movie Day**
- 24) Mar 7 Impacts of Humans on the Marine Environment Chapter 18
- 25) Mar 9 Climate Change and Ocean Acidification Chapter 10 (p. 231-243)
- 26) Mar 11 Interactive tour of the Birch Aquarium
- Mar 14 Final Exam** (50% = lectures 19-25; 50% Cumulative)