

SIO 132: Introduction to Marine Biology
Fall Quarter 2015

Course Instructors:

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Teaching Assistants:

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Instructors' Office Hours: by appointment (preferably set up by email)

Course structure: Two lectures/week on T/Th, 12:30 pm - 1:50 pm in Center 214
+ one section meeting/week (recommended, see below)

Textbook (required): Marine Biology (4th ed, 2013). J.S. Levinton. Oxford University Press

Clickers (required): bring them each class

Other Resources:

Photo Atlas for Marine Biology (2011) Wisehart et al. Morton Publishing. Covers the diversity of marine organisms in detail.
Marine Biology (2012-9th edition). Castro & Huber, McGraw Hill. General text of marine biology.
Introduction to Marine Biology (2013) Karleskin et al. Brooks/Cole. General text of marine biology.
Biological Oceanography: An Introduction (1997) Lalli & Parsons. Butterworth-Heinemann. General text of oceanography.

Additional course readings will be assigned in class and will be available on the TED website. Lecture notes, additional readings, and exam keys will be posted on the class TED web site. Books will be on reserve at the Geisel Library.

Grading:

Two midterm exams (short answer format)	
1st Midterm	= 100 points
2nd Midterm	= 100 points
Final exam has two parts:	
3rd Midterm	= 100 points
Cumulative Final	= 100 points
Clicker points	= 50 points
Total	= 450 points

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

Section	Day	Time	Location (WLH = Warren Lecture Hall)
A01	W	2:00p-2:50p	WLH 2208
A02	W	3:00p-3:50p	WLH 2208
A03	F	9:00a-9:50a	WLH 2114
A04	F	10:00a-10:50a	WLH 2114

SIO 132 Introduction to Marine Biology - Lecture Schedule

Fall Quarter 2015

T/Th, 12:30 pm - 1:50 pm in Center Hall 214

<u>Date</u>	<u>Lecture Topic (Instructor: B = Burton; H = Hastings)</u>	<u>Readings (in Levinton)*</u>
Sept 24	1) Introduction: ocean environment and marine biology (B)	Chapters 1-2
Sept 29	2) Habitats: open ocean & deep sea (H)	Pages 404-428
Oct 1	3) Habitats: coastal (estuaries; salt marshes; mangroves) (H)	Pages 327-366
Oct 6	4) Habitats: corals reefs (H)	Pages 378-401
Oct 8	5) Global patterns of marine biodiversity (H)	Pages 434-449
Oct 13	6) Animal movements & migrations (H)	Pages 114-121
Oct 15	7) Species interactions I (H)	Chapter 3
Oct 20	8) MIDTERM 1 (lectures 1, 2, 3, 4, 5, 6)	
Oct 22	9) Species interactions II & Community ecology (H)	Pages 309-327; 366-378
Oct 27	10) Marine molecular ecology (B)	
Oct 29	11) Physiological adaptations (B)	Chapter 4
Nov 3	12) Evolutionary adaptations (B)	Chapter 4
Nov 5	13) Marine microbial ecology (B)	pages 141-145, 215-220
Nov 10	14) Life histories and population structure (B)	Pages 124-139
Nov 12	15) MIDTERM 2 (lectures 7, 9, 10, 11, 12, 13)	-
Nov 17	16) Reproduction & mating systems I (H)	Pages 102-114
Nov 19	17) Reproduction & mating systems II (H)	Pages 102-114
Nov 24	18) Speciation in the sea (B)	Pages 62-65
Nov 26	19) THANKSGIVING holiday	
Dec 1	20) Fisheries and Conservation (B)	Pages 450-471
Dec 3	21) Marine pollution (B)	Chapter 19
Dec. 11	MIDTERM 3 (lectures 14, 16, 17, 18, 20, 21) & FINAL (cumulative) Friday 11:30 am-2:30 pm	

* Additional readings will be assigned in class and posted on the TED website