SIO 132: Introduction to Marine Biology
Fall Quarter 2014

Course Instructors:

Dr. Ron Burton, Scripps Institution of Oceanography
Office: Hubbs Hall 2140 Phone: 822-5784 email: rburton@ucsd.edu
Dr. Phil Hastings, Scripps Institution of Oceanography
Office: Vaughan Hall 201 Phone: 822-2913 email: phastings@ucsd.edu

Teaching Assistants:

Por Tangwancharoen stangwan@ucsd.edu
Alice Harada aharada@ucsd.edu

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

Course structure: Two lectures/week on T/Th, 9:30 am - 10:50 am in Center 115
+ one section meeting/week (recommended, see below)

Textbook (required): Marine Biology (4th ed, 2013). J.S. Levinton. Oxford University Press
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
Total	= 400 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	1:00p-1:50p	WLH 2112
A02	W	11:00a-11:50a	WLH 2115
A03	F	10:00a-10:50a	WLH 2112
A04	F	9:00a-9:50a	WLH 2206

SIO 132 Introduction to Marine Biology - Lecture Schedule

Fall Quarter 2014

TuTh 9:30 am - 10:50 am, Center 115

Date	Lecture Topic (Instructor: B = Burton; H = Hastings)	Readings (in Levinton)*
Oct 2	1) Introduction: ocean environment and marine biology (B)	Chapters 1-2
Oct 7	2) Habitats: open ocean & deep sea (H)	Pages 410-428
Oct 9	3) Habitats: coastal (estuaries; salt marshes; mangroves) (H)	Pages 327-366
Oct 14	4) Corals reefs; Global patterns of marine biodiversity (H)	Pages 378-401; 434-449
Oct 16	5) Animal movements & migrations (H)	Pages 114-121Oct 21
Oct 21	6) Species interactions I (H)	Chapter 3
Oct 23	7) MIDTERM 1 (lectures 1, 2, 3, 4, 5)	
Oct 28	8) Species interactions II & Community ecology (H)	Pages 309-327; 366-378
Oct 30	9) Reproduction & mating systems I (H)	Pages 102-114
Nov 4	10) Reproduction & mating systems II (H)	Pages 102-114
Nov 6	11) Marine microbial ecology (B)	Pages 141-145; 158-161
Nov 11	12) VETERANS DAY HOLIDAY	-
Nov 13	13) Physiological adaptations (B)	Chapter 4
Nov 18	14) Evolutionary adaptations (B)	Chapter 4
Nov 20	15) MIDTERM 2 (lectures 6, 8, 9, 10, 11, 13)	-
Nov 25	16) Marine molecular ecology (B)	*
Nov 27	17) THANKSGIVING HOLIDAY	-
Dec 2	18) Life histories and population structure (B)	Pages 124-139
Dec 4	19) Speciation in the sea (B)	Pages 62-65
Dec 9	20) Fisheries and Conservation (B)	Pages 450-471
Dec 11	21) Marine pollution (B)	Chapter 19
Dec 18	22) MIDTERM 3 (lectures 14, 16, 18, 19, 20, 21) & FINAL (cumulative) Thursday 8:00 am-11:00 am	

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