

## MARINE MAMMAL BIOLOGY – SIO 133 SPRING QUARTER 2015

LECTURE: MWF 9-9:50 AM CENTER 105

[John A. Hildebrand \(jhildebrand@ucsd.edu\)](mailto:jhildebrand@ucsd.edu)

Office Hours: Friday 10:30-11:30 am

[Lisa T. Ballance \(LBallance@ucsd.edu\)](mailto:LBallance@ucsd.edu)

Office Hours and by appointment, 339 Southwest Fisheries Science Center Bldg

Ana Sirovic ([asirovic@ucsd.edu](mailto:asirovic@ucsd.edu))

Simone Baumann-Pickering ([sbaumann@ucsd.edu](mailto:sbaumann@ucsd.edu))

Sections:

W 10:00a-10:50a WLH 2209

W 11:00a-11:50a WLH 2209

Th 1:00p-1:50p York 3030

Teaching Assistants:

Anne Simonis <[asimonis@ucsd.edu](mailto:asimonis@ucsd.edu)>

Office Hours: Thursday 2:00 – 3:00 PM in Galbraith Hall room 364

Doug Krause <[djkrause@ucsd.edu](mailto:djkrause@ucsd.edu)>

Office Hours: Wednesday 1:00 - 2:00 PM, Galbraith Hall room 364

Textbook:

Berta, A., J.L. Sumich, and K.M. Kovacs 2006. Marine Mammals: Evolutionary Biology. 2<sup>nd</sup> Edition. Academic Press

Grade:

30% Mid-Term; 30% Term Paper; 30% Final Exam; 10% Section Participation

Term Paper:

[Help with topic selection](#)

[Guidelines and Rubric](#)

Week 1

30 March - [Introduction to Course \(JAH\)](#) [Ocean Environment](#); [BertaChap1](#)

1 April - [Marine Environment as a Selective Force for Secondary Marine Forms](#) (LTB)

3 April - [Cetacean Taxonomy and Classification](#) (LTB) [Pages 65-68 and 71-81](#);

Week 1 - [Study Guide](#)

## Week 2

6 April - Cetacean Taxonomy and Classification (LTB)

8 April - [Cetacean Systematics and Evolution](#) (LTB) [Pages 51-64 and 68-71](#);

10 April [Pinniped and Sirenian Systematics BW](#) (JAH)

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### [Week 2 - Study Guide](#)

## Week 3

13 April [Pinniped and Sirenian EvolutionBW](#) (JAH)

15 April – Pinniped Conservation - [Pribilof Fur Seals](#) (JAH) [Pages 27-47](#) and [89-107](#)

17 April - [Role of Marine Mammals in Ecosystems](#) - (LTB) [Ballance et al. 2006](#)

### Week 3 - [Study Guide](#)

## Week 4

20 April - [Role of Marine Mammals in Ecosystems](#) (LTB) [Roman et al. 2014](#) [Springer et al. 2003](#)

22 April - Biogeography (Ana Sirovic)

24 April - Climate Change (Ana Sirovic)

### Week 4 - [Study Guide](#)

## Week 5

27 April - Paper Topic Due

27 April - Sensory Systems - Vision et al. Color BW (JAH)

29 April - Sensory Systems - Sound Color BW (JAH)

Mid-Term Review -- April 29, 5-7pm: Petersen Hall room 104

1 May – Impacts of Anthropogenic Sound Color BW (JAH)

## Week 6

4 May – MIDTERM EXAM

6 May - Anatomy Color BW (Simone Baumann-Pickering)

8 May - Locomotion Color BW (Simone Baumann-Pickering)

## Week 7

11 May - Paper Outline Due

11 May – Energetics and Thermoregulation Color BW (Simone Baumann-Pickering)

13 May - Diving Physiology Color BW (Simone Bauman-Pickering)

15 May - Health Color BW (Simone Baumann-Pickering)

Week 8

18 May - Paper Draft Due

18 May - Odontocete Acoustics Biosonar Color BW (Simone Baumann-Pickering)

20 May - Mysticete Acoustics (Ana Sirovic)

22 May - Behavior and Social Systems - Foraging Color BW (JAH)

Week 9

25 May - HOLIDAY - Memorial Day

27 May - Behavior and Social Systems - Mating Color BW + Population Color BW (JAH)

29 May - Whaling: Past, Present, and Future (LTB)

Week 10

1 June - Paper Final Version Due

1 June - Bycatch (LTB)

3 June - Indirect Effects (LTB)

5 June - Guest Lecture (Bob Pitman)

**Final Exam Review Session - Final Exam Review -- June 2, 5-7pm: Cognitive Science Building room 004**

**FINAL EXAM Wednesday June 10, 8-11 am**

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